

# STI & HIV Coinfections in Michigan, 2021

All data as of July 1, 2022



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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, 2021

Population	Diagnosis Count	Diagnoses of P&S Syphilis, 2021		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	980	202 (21%)	10 (1%)	47 (5%)
<b>Age</b>				
14 and under	1	0	0	0
15-19 years	41	3 (7%)	1 (2%)	1 (2%)
20-24 years	168	25 (15%)	4 (2%)	9 (5%)
25-29 years	185	27 (15%)	1 (1%)	8 (4%)
30-39 years	306	82 (27%)	4 (1%)	14 (5%)
40-49 years	146	31 (21%)	0	11 (8%)
50-59 years	88	25 (28%)	0	3 (3%)
60+ years	45	9 (20%)	0	1 (2%)
<b>Race/Sex at birth</b>				
Black Female	126	3 (2%)	0	1 (1%)
Black Male	499	145 (29%)	9 (2%)	16 (3%)
Hispanic Female	4	1 (25%)	0	0
Hispanic Male	37	6 (16%)	0	1 (3%)
Other Female	6	0	0	0
Other Male	31	2 (6%)	0	5 (16%)
White Female	70	2 (3%)	0	0
White Male	200	43 (22%)	0	24 (12%)
Unknown Female	1	0	0	0
Unknown Male	6	0	0	0
<b>Transmission Risk</b>				
MSM/PWID	16	10 (63%)	0	2 (13%)
MSM	399	168 (42%)	8 (2%)	39 (10%)
PWID	12	0	0	0
MSW	275	8 (3%)	0	1 (0%)
WSM	179	6 (3%)	1 (1%)	1 (1%)
Unknown/Other	99	10 (10%)	1 (1%)	4 (4%)
<b>Local Health Jurisdiction</b>				
Allegan County	6	2 (33%)	0	0
Barry-Eaton	8	0	0	0
Bay County	3	2 (67%)	0	0
Benzie-Leelanau	0	0	0	0
Berrien County	4	0	0	0
Branch-Hillsdale-St. Joseph	5	1 (20%)	0	0
Calhoun County	12	2 (17%)	0	1 (8%)
Central Michigan District	5	0	0	0
Chippewa County	1	1 (100%)	0	0
Delta-Menominee	1	0	0	0
Detroit LHD	357	94 (26%)	5 (1%)	9 (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 2021

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 2021 (Diagnosis Count).

Table 1: Primary and Secondary Syphilis-HIV Coinfections, 2021 (continued)

Population	Diagnosis Count	Diagnoses of P&S Syphilis, 2021		HIV negative On PrEP* n (%)
		People Living with HIV		
		Coinfected w/ HIV <sup>1</sup> n (%)	Co-diagnosed w/ HIV <sup>2</sup> n (%)	
Dickinson-Iron	1	0	0	0
District 2	0	0	0	0
District 4	0	0	0	0
District 10	5	2 (40%)	0	1 (20%)
Genesee County	18	3 (17%)	0	3 (17%)
Grand Traverse County	1	0	0	0
Huron County	1	0	0	1 (100%)
Ingham County	21	2 (10%)	0	3 (14%)
Ionia County	3	0	0	0
Jackson County	4	1 (25%)	0	0
Kalamazoo County	67	7 (10%)	1 (1%)	0
Kent County	64	7 (11%)	0	3 (5%)
Lapeer County	1	0	0	0
Lenawee County	2	0	0	0
Livingston County	3	1 (33%)	0	1 (33%)
Luce-Mack-Alger-School	0	0	0	0
Macomb County	91	21 (23%)	1 (1%)	5 (5%)
Marquette County	0	0	0	0
Midland County	0	0	0	0
Mid-Michigan District	3	0	0	1 (33%)
Monroe County	3	0	0	1 (33%)
Muskegon County	5	0	0	0
Northwest MI Com Hlth Agency	2	0	0	1 (50%)
Oakland County	120	22 (18%)	2 (2%)	6 (5%)
Ottawa County	8	1 (13%)	0	0
Saginaw County	8	5 (63%)	0	1 (13%)
Sanilac County	0	0	0	0
Shiawassee County	1	0	0	0
St Clair County	9	3 (33%)	0	0
Tuscola County	0	0	0	0
Van Buren-Cass	3	1 (33%)	0	0
Washtenaw County	35	10 (29%)	1 (3%)	7 (20%)
Wayne County LHD	99	14 (14%)	0	3 (3%)
Western UP District	0	0	0	0

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis) in 2021

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 2021 (Diagnosis Count).

Table 2: Latent Syphilis-HIV Coinfections, 2021

Population	Diagnosis Count	Diagnoses of Latent Syphilis, 2021		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	1661	508 (31%)	28 (2%)	85 (5%)
<b>Age</b>				
14 and under	0	0	0	0
15-19 years	54	4 (7%)	0	1 (2%)
20-24 years	246	53 (22%)	9 (4%)	13 (5%)
25-29 years	297	79 (27%)	3 (1%)	17 (6%)
30-39 years	595	207 (35%)	10 (2%)	32 (5%)
40-49 years	244	70 (29%)	4 (2%)	13 (5%)
50-59 years	155	65 (42%)	2 (1%)	8 (5%)
60+ years	70	30 (43%)	0	1 (1%)
<b>Race/Sex at birth</b>				
Black Female	255	10 (4%)	1 (0%)	1 (0%)
Black Male	669	325 (49%)	16 (2%)	19 (3%)
Hispanic Female	23	0	0	0
Hispanic Male	75	25 (33%)	1 (1%)	5 (7%)
Other Female	14	0	0	0
Other Male	64	18 (28%)	3 (5%)	8 (13%)
White Female	167	5 (3%)	1 (1%)	1 (1%)
White Male	355	117 (33%)	6 (2%)	51 (14%)
Unknown Female	8	0	0	0
Unknown Male	32	8 (25%)	0	0
<b>Transmission Risk</b>				
MSM/PWID	33	27 (82%)	1 (3%)	1 (3%)
MSM	673	415 (62%)	18 (3%)	63 (9%)
PWID	36	13 (36%)	2 (6%)	0
MSW	164	10 (6%)	0	0
WSM	323	5 (2%)	1 (0%)	1 (0%)
Unknown/Other	433	38 (9%)	6 (1%)	20 (5%)
<b>Local Health Jurisdiction</b>				
Allegan County	7	3 (43%)	0	0
Barry-Eaton	15	3 (20%)	0	0
Bay County	9	2 (22%)	0	1 (11%)
Benzie-Leelanau	2	0	0	0
Berrien County	8	3 (38%)	2 (25%)	0
Branch-Hillsdale-St. Joseph	1	0	0	0
Calhoun County	17	5 (29%)	1 (6%)	1 (6%)
Central Michigan District	5	0	0	0
Chippewa County	2	1 (50%)	0	0
Delta-Menominee	1	0	0	0
Detroit LHD	598	205 (34%)	8 (1%)	18 (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 2021

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 2021 (Diagnosis Count).

Table 2: Latent Syphilis-HIV Coinfections, 2021 (continued)

Population	Diagnoses of Latent Syphilis, 2021			
	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	3	2 (67%)	0	1 (33%)
District 2	1	0	0	0
District 4	0	0	0	0
District 10	21	3 (14%)	0	1 (5%)
Genesee County	43	25 (58%)	2 (5%)	0
Grand Traverse County	3	2 (67%)	0	1 (33%)
Huron County	0	0	0	0
Ingham County	60	14 (23%)	0	2 (3%)
Ionia County	3	0	0	1 (33%)
Jackson County	44	5 (11%)	0	1 (2%)
Kalamazoo County	67	12 (18%)	0	0
Kent County	96	24 (25%)	1 (1%)	4 (4%)
Lapeer County	1	0	0	0
Lenawee County	7	0	0	1 (14%)
Livingston County	7	1 (14%)	0	2 (29%)
Luce-Mack-Alger-School	0	0	0	0
Macomb County	137	42 (31%)	2 (1%)	8 (6%)
Marquette County	2	0	0	0
Midland County	2	1 (50%)	0	0
Mid-Michigan District	11	3 (27%)	0	0
Monroe County	9	4 (44%)	0	0
Muskegon County	15	2 (13%)	1 (7%)	0
Northwest MI Com Hlth Agency	4	0	0	1 (25%)
Oakland County	196	63 (32%)	3 (2%)	27 (14%)
Ottawa County	18	2 (11%)	0	0
Saginaw County	10	3 (30%)	0	0
Sanilac County	0	0	0	0
Shiawassee County	9	0	0	0
St Clair County	9	1 (11%)	0	0
Tuscola County	1	0	0	0
Van Buren-Cass	7	2 (29%)	0	0
Washtenaw County	39	8 (21%)	1 (3%)	3 (8%)
Wayne LHD	168	67 (40%)	7 (4%)	12 (7%)
Western UP District	3	0	0	0

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis) in 2021  
 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 2021 (Diagnosis Count).

Table 3: Gonorrhea-HIV Coinfections, 2021

Population	Diagnosis Count	Diagnoses of Gonorrhea, 2021		
		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	22166	5995 (27.0%)	785 (3.5%)	34 (0.2%)
<b>Age</b>				
14 and under	121	55 (45.5%)	0	0
15-19 years	3665	1691 (46.1%)	22 (0.6%)	6 (0.2%)
20-24 years	6123	1955 (31.9%)	114 (1.9%)	9 (0.1%)
25-29 years	4785	1079 (22.5%)	176 (3.7%)	4 (0.1%)
30-39 years	5008	887 (17.7%)	315 (6.3%)	13 (0.3%)
40-49 years	1588	229 (14.4%)	88 (5.5%)	2 (0.1%)
50-59 years	643	71 (11.0%)	57 (8.9%)	0
60+ years	233	28 (12.0%)	13 (5.6%)	0
<b>Race/Sex at birth</b>				
Black Female	5635	1715 (30.4%)	20 (0.4%)	2 (0.0%)
Black Male	6813	1765 (25.9%)	545 (8.0%)	23 (0.3%)
Hispanic Female	448	152 (33.9%)	1 (0.2%)	0
Hispanic Male	336	85 (25.3%)	33 (9.8%)	2 (0.6%)
Other Female	517	177 (34.2%)	0	0
Other Male	660	156 (23.6%)	28 (4.2%)	2 (0.3%)
White Female	2990	842 (28.2%)	4 (0.1%)	0
White Male	2039	376 (18.4%)	117 (5.7%)	4 (0.2%)
Unknown Female	1197	363 (30.3%)	7 (0.6%)	0
Unknown Male	1529		30 (2.0%)	1 (0.1%)
<b>Transmission Risk</b>				
MSM/PWID	32	8	30	3
MSM	1305	268	648	27
PWID	35	11	6	0
MSW	2155	395	14	0
WSM	3675	888	23	0
Unknown/Other	14964	4425	64	4
<i>note that 68% 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	106	24 (22.6%)	2 (1.9%)	0
Barry-Eaton	196	40 (20.4%)	1 (0.5%)	0
Bay County	136	42 (30.9%)	0	0
Benzie-Leelanau	17	5 (29.4%)	1 (5.9%)	0
Berrien County	531	198 (37.3%)	4 (0.8%)	0
Branch-Hillsdale-St. Joseph	242	72 (29.8%)	1 (0.4%)	0
Calhoun County	537	172 (32.0%)	3 (0.6%)	0
Central Michigan District	116	32 (27.6%)	2 (1.7%)	0
Chippewa County	12	3 (25.0%)	0	0
Delta-Menominee	4	0	1 (25.0%)	0
Detroit LHD	6152	1762 (28.6%)	344 (5.6%)	17 (0.3%)

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 2021
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, 2021 (continued)

Population	Diagnosis Count	Diagnoses of Gonorrhea, 2021		
		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	6	0	0	0
District 2	11	1 (9.1%)	1 (9.1%)	0
District 4	14	5 (35.7%)	0	0
District 10	167	49 (29.3%)	2 (1.2%)	0
Genesee County	1721	512 (29.8%)	20 (1.2%)	2 (0.1%)
Grand Traverse County	48	11 (22.9%)	0	0
Huron County	8	2 (25.0%)	0	0
Ingham County	977	292 (29.9%)	26 (2.7%)	2 (0.2%)
Ionia County	90	27 (30.0%)	0	0
Jackson County	426	113 (26.5%)	5 (1.2%)	0
Kalamazoo County	1085	290 (26.7%)	29 (2.7%)	0
Kent County	1826	498 (27.3%)	45 (2.5%)	0
Lapeer County	38	13 (34.2%)	0	0
Lenawee County	74	18 (24.3%)	0	0
Livingston County	49	8 (16.3%)	2 (4.1%)	0
Luce-Mack-Alger-School	6	1 (16.7%)	0	0
Macomb County	1401	390 (27.8%)	67 (4.8%)	3 (0.2%)
Marquette County	17	3 (17.6%)	0	0
Midland County	35	8 (22.9%)	0	0
Mid-Michigan District	162	47 (29.0%)	2 (1.2%)	0
Monroe County	70	17 (24.3%)	1 (1.4%)	0
Muskegon County	775	199 (25.7%)	8 (1.0%)	1 (0.1%)
Northwest MI Com Hlth Agency	31	8 (25.8%)	0	0
Oakland County	1531	376 (24.6%)	84 (5.5%)	6 (0.4%)
Ottawa County	258	81 (31.4%)	5 (1.9%)	0
Saginaw County	655	22 (3.4%)	6 (0.9%)	0
Sanilac County	20	2 (10.0%)	0	0
Shiawassee County	68	11 (16.2%)	0	0
St Clair County	158	35 (22.2%)	4 (2.5%)	0
Tuscola County	11	2 (18.2%)	0	0
Van Buren-Cass	141	37 (26.2%)	2 (1.4%)	0
Washtenaw County	528	110 (20.8%)	12 (2.3%)	1 (0.2%)
Wayne LHD	1699	454 (26.7%)	105 (6.2%)	2 (0.1%)
Western UP District	11	3 (27.3%)	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 2021

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, 2021

Population	Diagnosis Count	Diagnoses of Chlamydia, 2021		
		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	46265	5995 (13.0%)	559 (1.2%)	30 (0.1%)
<b>Age</b>				
14 and under	328	55 (16.8%)	0	0
15-19 years	11979	1691 (14.1%)	21 (0.2%)	5 (0.0%)
20-24 years	17398	1955 (11.2%)	96 (0.6%)	11 (0.1%)
25-29 years	8385	1079 (12.9%)	109 (1.3%)	3 (0.0%)
30-39 years	6147	887 (14.4%)	215 (3.5%)	9 (0.1%)
40-49 years	1377	229 (16.6%)	62 (4.5%)	1 (0.1%)
50-59 years	497	71 (14.3%)	45 (9.1%)	1 (0.2%)
60+ years	154	28 (18.2%)	11 (7.1%)	0
<b>Race/Sex at birth</b>				
Black Female	12021	1715 (14.3%)	22 (0.2%)	0
Black Male	7245	1765 (24.4%)	345 (4.8%)	21 (0.3%)
Hispanic Female	1757	152 (8.7%)	2 (0.1%)	0
Hispanic Male	644	85 (13.2%)	25 (3.9%)	2 (0.3%)
Other Female	2016	177 (8.8%)	1 (0.0%)	0
Other Male	1145	156 (13.6%)	25 (2.2%)	2 (0.2%)
White Female	10106	842 (8.3%)	15 (0.1%)	1 (0.0%)
White Male	3853	376 (9.8%)	94 (2.4%)	4 (0.1%)
Unknown Female	4660	363 (7.8%)	8 (0.2%)	0
Unknown Male	2815		22 (0.8%)	0
<b>Transmission Risk</b>				
MSM/PWID	25	8	25	2
MSM	989	268	447	22
PWID	49	11	9	0
MSW	2908	395	6	0
WSM	8217	888	31	0
Unknown/Other	34077	4425	41	6
<i>note that 74% 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	317	24 (7.6%)	2 (0.6%)	0
Barry-Eaton	505	40 (7.9%)	2 (0.4%)	0
Bay County	395	42 (10.6%)	0	0
Benzie-Leelanau	68	5 (7.4%)	0	0
Berrien County	913	198 (21.7%)	2 (0.2%)	0
Branch-Hillsdale-St. Joseph	431	72 (16.7%)	3 (0.7%)	0
Calhoun County	893	172 (19.3%)	4 (0.4%)	0
Central Michigan District	511	32 (6.3%)	6 (1.2%)	0
Chippewa County	79	3 (3.8%)	0	0
Delta-Menominee	83	0	0	0
Detroit LHD	10005	1762 (17.6%)	243 (2.4%)	11 (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 2021
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, 2021 (continued)

Population	Diagnosis Count	Diagnoses of Chlamydia, 2021		
		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	87	0	0	0
District 2	97	1 (1.0%)	0	0
District 4	131	5 (3.8%)	0	0
District 10	603	49 (8.1%)	2 (0.3%)	1 (0.2%)
Genesee County	2686	512 (19.1%)	23 (0.9%)	2 (0.1%)
Grand Traverse County	231	11 (4.8%)	4 (1.7%)	0
Huron County	57	2 (3.5%)	0	0
Ingham County	1783	292 (16.4%)	11 (0.6%)	0
Ionia County	201	27 (13.4%)	1 (0.5%)	0
Jackson County	822	113 (13.7%)	2 (0.2%)	0
Kalamazoo County	1895	290 (15.3%)	20 (1.1%)	2 (0.1%)
Kent County	3831	498 (13.0%)	40 (1.0%)	0
Lapeer County	169	13 (7.7%)	0	0
Lenawee County	240	18 (7.5%)	1 (0.4%)	0
Livingston County	315	8 (2.5%)	1 (0.3%)	0
Luce-Mack-Alger-School	57	1 (1.8%)	0	0
Macomb County	3306	390 (11.8%)	38 (1.1%)	4 (0.1%)
Marquette County	190	3 (1.6%)	0	0
Midland County	152	8 (5.3%)	0	0
Mid-Michigan District	527	47 (8.9%)	3 (0.6%)	0
Monroe County	333	17 (5.1%)	0	0
Muskegon County	1364	199 (14.6%)	4 (0.3%)	1 (0.1%)
Northwest MI Com Hlth Agency	207	8 (3.9%)	0	0
Oakland County	3956	376 (9.5%)	46 (1.2%)	3 (0.1%)
Ottawa County	1006	81 (8.1%)	2 (0.2%)	0
Saginaw County	1249	22 (1.8%)	9 (0.7%)	0
Sanilac County	51	2 (3.9%)	0	0
Shiawassee County	156	11 (7.1%)	0	0
St Clair County	336	35 (10.4%)	3 (0.9%)	1 (0.3%)
Tuscola County	98	2 (2.0%)	0	0
Van Buren-Cass	396	37 (9.3%)	2 (0.5%)	0
Washtenaw County	1452	110 (7.6%)	21 (1.4%)	2 (0.1%)
Wayne LHD	3956	454 (11.5%)	64 (1.6%)	3 (0.1%)
Western UP District	125	3 (2.4%)	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 2021

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, 2021

	Persons Living with HIV (Prevalence), 2021				
	Prevalence Count	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>Population</b>					
Michigan Total	17931	1439 (8%)	1148 (80%)	828 (58%)	570 (40%)
<b>Age</b>					
14 and under	66	0	0	0	0
15-19 years	81	18 (22%)	16 (89%)	9 (50%)	6 (33%)
20-24 years	551	164 (30%)	140 (85%)	100 (61%)	81 (49%)
25-29 years	1386	251 (18%)	213 (85%)	153 (61%)	106 (42%)
30-39 years	4034	589 (15%)	474 (80%)	323 (55%)	212 (36%)
40-49 years	3339	195 (6%)	144 (74%)	107 (55%)	71 (36%)
50-59 years	4728	157 (3%)	119 (76%)	100 (64%)	69 (44%)
60+ years	3746	65 (2%)	42 (65%)	36 (55%)	25 (38%)
<b>Race/Sex at birth</b>					
Black Female	2466	54 (2%)	47 (87%)	35 (65%)	22 (41%)
Black Male	7370	921 (12%)	746 (81%)	511 (55%)	347 (38%)
Hispanic Female	216	8 (4%)	7 (88%)	3 (38%)	3 (38%)
Hispanic Male	990	86 (9%)	64 (74%)	51 (59%)	41 (48%)
Other Female	160	1 (1%)	1 (100%)	0	0
Other Male	599	53 (9%)	46 (87%)	29 (55%)	15 (28%)
White Female	784	19 (2%)	15 (79%)	11 (58%)	10 (53%)
White Male	5346	297 (6%)	222 (75%)	188 (63%)	132 (44%)
<b>Transmission Risk</b>					
MSM/PWID	701	63 (9%)	48 (76%)	36 (57%)	24 (38%)
MSM	10081	1146 (11%)	916 (80%)	670 (58%)	460 (40%)
PWID	899	22 (2%)	16 (73%)	11 (50%)	9 (41%)
MSW	731	29 (4%)	21 (72%)	12 (41%)	9 (31%)
WSM	2590	54 (2%)	47 (87%)	36 (67%)	24 (44%)
Unknown/Other	2929	125 (4%)	100 (80%)	63 (50%)	44 (35%)
<b>Local Health Jurisdiction</b>					
Allegan County	130	10 (8%)	6 (60%)	6 (60%)	3 (30%)
Barry-Eaton	136	11 (8%)	10 (91%)	8 (73%)	4 (36%)
Bay County	91	3 (3%)	2 (67%)	1 (33%)	1 (33%)
Benzie-Leelanau	18	0	0	0	0
Berrien County	259	7 (3%)	6 (86%)	5 (71%)	4 (57%)
Branch-Hillsdale-St. Joseph	84	2 (2%)	2 (100%)	2 (100%)	1 (50%)
Calhoun County	214	11 (5%)	9 (82%)	6 (55%)	3 (27%)
Central Michigan District	139	5 (4%)	3 (60%)	3 (60%)	3 (60%)
Chippewa County	16	2 (13%)	2 (100%)	1 (50%)	0
Delta-Menominee	31	1 (3%)	1 (100%)	1 (100%)	0
Detroit LHD	5587	581 (10%)	479 (82%)	330 (57%)	218 (38%)

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 2021

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, 2021 (continued)

Population	Prevalence Count	Persons Living with HIV (Prevalence), 2021			
		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	15	1 (7%)	0	0	0
District 2	37	0	0	0	0
District 4	45	0	0	0	0
District 10	166	8 (5%)	5 (63%)	4 (50%)	3 (38%)
Genesee County	619	49 (8%)	43 (88%)	33 (67%)	25 (51%)
Grand Traverse County	94	4 (4%)	1 (25%)	1 (25%)	1 (25%)
Huron County	9	0	0	0	0
Ingham County	483	28 (6%)	22 (79%)	17 (61%)	14 (50%)
Ionia County	43	1 (2%)	1 (100%)	1 (100%)	1 (100%)
Jackson County	187	9 (5%)	7 (78%)	6 (67%)	5 (56%)
Kalamazoo County	434	40 (9%)	33 (83%)	20 (50%)	14 (35%)
Kent County	1152	89 (8%)	77 (87%)	66 (74%)	57 (64%)
Lapeer County	52	1 (2%)	1 (100%)	1 (100%)	1 (100%)
Lenawee County	55	1 (2%)	0	0	0
Livingston County	98	3 (3%)	3 (100%)	3 (100%)	2 (67%)
Luce-Mack-Alger-School	24	0	0	0	0
Macomb County	1363	137 (10%)	105 (77%)	77 (56%)	42 (31%)
Marquette County	41	0	0	0	0
Midland County	42	2 (5%)	0	0	0
Mid-Michigan District	124	10 (8%)	9 (90%)	5 (50%)	2 (20%)
Monroe County	131	7 (5%)	2 (29%)	1 (14%)	1 (14%)
Muskegon County	195	12 (6%)	9 (75%)	8 (67%)	6 (50%)
Northwest MI Com Hlth Agency	65	1 (2%)	1 (100%)	1 (100%)	1 (100%)
Oakland County	2260	158 (7%)	108 (68%)	78 (49%)	57 (36%)
Ottawa County	161	7 (4%)	5 (71%)	4 (57%)	3 (43%)
Saginaw County	254	17 (7%)	16 (94%)	11 (65%)	8 (47%)
Sanilac County	23	0	0	0	0
Shiawassee County	50	0	0	0	0
St Clair County	121	7 (6%)	6 (86%)	3 (43%)	0
Tuscola County	14	0	0	0	0
Van Buren-Cass	99	5 (5%)	5 (100%)	5 (100%)	4 (80%)
Washtenaw County	615	36 (6%)	31 (86%)	21 (58%)	16 (44%)
Wayne LHD	1853	166 (9%)	133 (80%)	97 (58%)	66 (40%)
Western UP District	36	0	0	0	0
Unknown Jurisdiction	1	0	0	0	0
Prisons*	265	7 (3%)	5 (71%)	2 (29%)	1 (14%)

1. Persons with HIV diagnosis on or prior to the date of any STI diagnosis (chlamydia, gonorrhea, or syphilis) in 2021.

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.