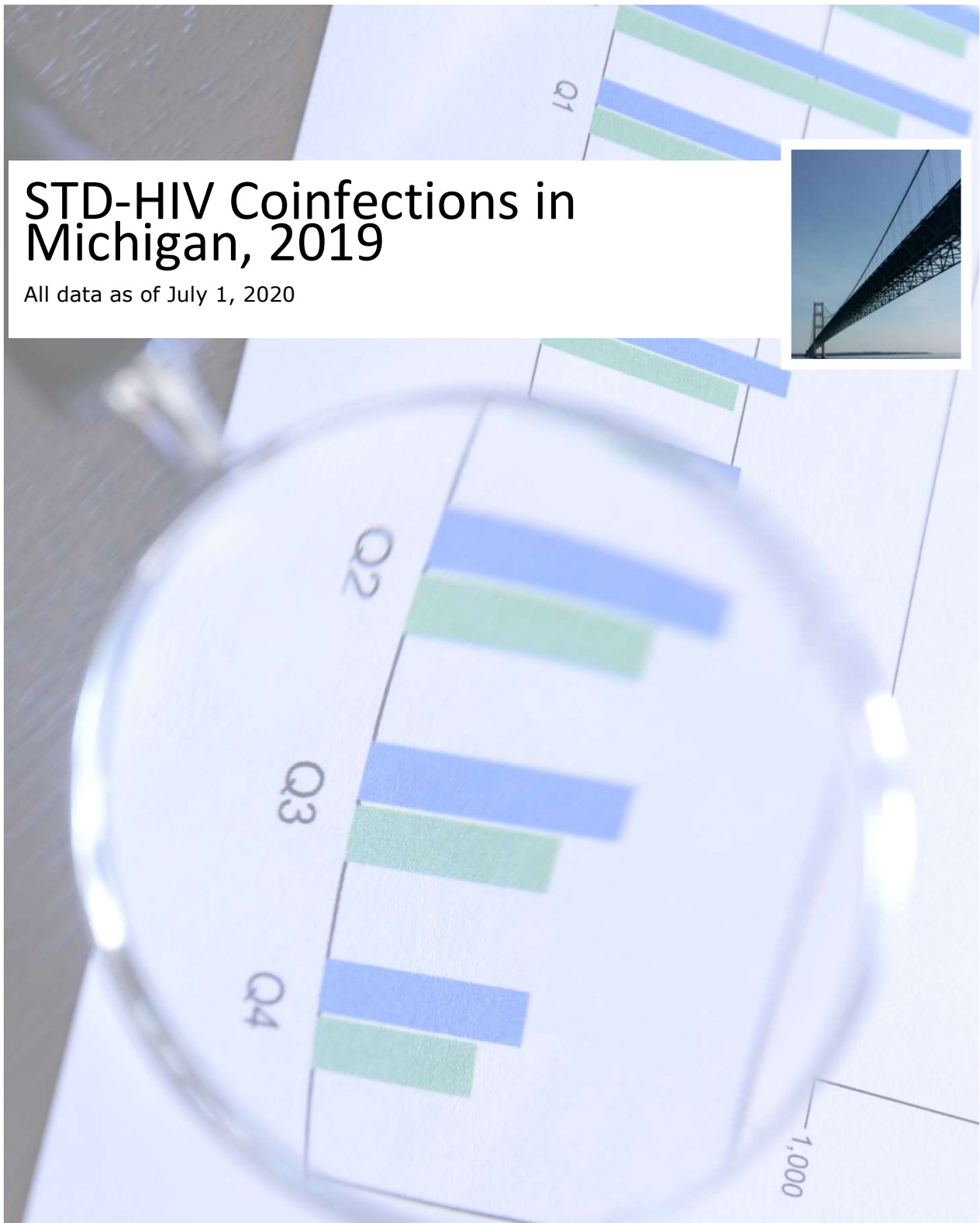


STD-HIV Coinfections in Michigan, 2019

All data as of July 1, 2020



HIV & STD Surveillance & Epidemiology Section
Division of HIV & STD Programs
Bureau of Infectious Disease
Michigan Department of Health and Human Services

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Overview

Michigan's STD Surveillance Program collects, interprets, and disseminates population level data regarding persons with sexually transmitted diseases. 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.

STD and HIV affect many of the same people and populations, and co-infection with an STD is a major transmission risk factor for people living with HIV as it increases the amount of virus in genital secretions. Looking at where co-infections occur and the HIV care outcomes of coinfecting people may help inform health service delivery and targeted prevention strategies for STD/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 STD diagnosis and treatment.

Key Definitions and Abbreviations

Diagnoses: The number of STD cases newly diagnosed over a year. The diagnosis date for a STD case is the date that the original STD test was performed, when available. If the STD test date is unavailable, then the diagnosis date is the date that the STD case was reported to the health department.

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. STDs, in contrast, are curable, and patients can be diagnosed with multiple STD in a given year or even reinfected with the same STD multiple times, so diagnosis counts exceed the number of unique patients. For this reason, STD-HIV co-infection counts for the year may exceed the number of unique persons with a reported STD-HIV 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 STD 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 an STD and 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 STD.

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.

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, 2019

Population	Diagnosis Count	Diagnoses of P&S Syphilis, 2019		HIV negative On PrEP* n (%)
		People Living with HIV Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)	
Michigan Total	685	171 (25%)	11 (2%)	44 (6%)
Age				
14 and under	1	0	0	0
15-19 years	33	3 (9%)	0	6 (18%)
20-24 years	102	10 (10%)	2 (2%)	3 (3%)
25-29 years	165	46 (28%)	5 (3%)	10 (6%)
30-39 years	190	55 (29%)	3 (2%)	10 (5%)
40-49 years	106	31 (29%)	1 (1%)	13 (12%)
50-59 years	64	20 (31%)	0	2 (3%)
60+ years	24	6 (25%)	0	0
Race/Sex at birth				
Black Female	49	0	0	3 (6%)
Black Male	318	115 (36%)	8 (3%)	12 (4%)
Hispanic Female	7	0	0	0
Hispanic Male	39	6 (15%)	0	5 (13%)
Other Female	1	0	0	0
Other Male	21	3 (14%)	0	2 (10%)
White Female	38	0	0	0
White Male	208	46 (22%)	3 (1%)	22 (11%)
Unknown Female	1	0	0	0
Unknown Male	3	1 (33%)	0	0
Transmission Risk				
MSM/PWID	15	8 (53%)	1 (7%)	0
MSM	369	149 (40%)	7 (2%)	38 (10%)
PWID	15	3 (20%)	1 (7%)	0
MSW	154	0	0	3 (2%)
WSM	82	0	0	3 (4%)
Unknown/Other	50	11 (22%)	2 (4%)	0
Local Health Jurisdiction				
Allegan County	2	0	0	1 (50%)
Barry-Eaton	9	1 (11%)	0	0
Bay County	1	0	0	0
Benzie-Leelanau	0	0	0	0
Berrien County	2	1 (50%)	0	0
Branch-Hillsdale-St. Joseph	2	0	0	0
Calhoun County	5	1 (20%)	0	0
Central Michigan District	6	2 (33%)	0	0
Chippewa County	4	0	0	0
Delta-Menominee	0	0	0	0
Detroit LHD	251	72 (29%)	7 (3%)	18 (7%)

LHD Jurisdictions continued on next page

1. Persons with HIV diagnosis on or prior to the date of any STD diagnosis (chlamydia, gonorrhea, or syphilis) in 2019

2. Persons with an HIV diagnosis within 30 days of STD 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 STD in 2019.

Table 1: Primary and Secondary Syphilis-HIV Coinfections, 2019 (continued)

Population	Diagnosis Count	Diagnoses of P&S Syphilis, 2019		HIV negative On PrEP* n (%)
		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	2	0	0	0
District 10	2	0	0	0
Genesee County	24	2 (8%)	0	1 (4%)
Grand Traverse County	6	0	0	0
Huron County	0	0	0	0
Ingham County	26	6 (23%)	0	2 (8%)
Ionia County	5	0	0	0
Jackson County	5	0	0	0
Kalamazoo County	20	4 (20%)	1 (5%)	3 (15%)
Kent County	25	4 (16%)	0	0
Lapeer County	1	1 (100%)	0	0
Lenawee County	1	0	0	0
Livingston County	2	0	0	0
Luce-Mack-Alger-School	0	0	0	0
Macomb County	54	19 (35%)	1 (2%)	2 (4%)
Marquette County	1	0	0	0
Midland County	3	1 (33%)	0	1 (33%)
Mid-Michigan District	3	1 (33%)	0	1 (33%)
Monroe County	4	0	0	0
Muskegon County	1	0	0	0
Northwest MI Com Hlth Agency	3	0	0	1 (33%)
Oakland County	88	28 (32%)	1 (1%)	6 (7%)
Ottawa County	3	1 (33%)	1 (33%)	0
Saginaw County	4	3 (75%)	0	0
Sanilac County	1	0	0	0
Shiawassee County	0	0	0	0
St Clair County	4	1 (25%)	0	1 (25%)
Tuscola County	0	0	0	0
Van Buren-Cass	2	1 (50%)	0	0
Washtenaw County	24	2 (8%)	0	7 (29%)
Wayne County LHD	89	20 (22%)	0	0
Western UP District	0	0	0	0
Unknown Jurisdiction	0	0	0	0

1. Persons with HIV diagnosis on or prior to the date of any STD diagnosis (chlamydia, gonorrhea, or syphilis) in 2019

2. Persons with an HIV diagnosis within 30 days of STD 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 STD in 2019.

Table 2: Latent Syphilis-HIV Coinfections, 2019

	Diagnosis Count	Diagnoses of Latent Syphilis, 2019		HIV negative On PrEP* n (%)
		People Living with HIV Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)	
Population				
Michigan Total	1215	417 (34%)	16 (1%)	86 (7%)
Age				
14 and under	0	0	0	0
15-19 years	47	3 (6%)	1 (2%)	2 (4%)
20-24 years	158	40 (25%)	4 (3%)	11 (7%)
25-29 years	293	93 (32%)	4 (1%)	28 (10%)
30-39 years	348	146 (42%)	6 (2%)	28 (8%)
40-49 years	199	71 (36%)	0	11 (6%)
50-59 years	126	52 (41%)	1 (1%)	5 (4%)
60+ years	44	12 (27%)	0	1 (2%)
Race/Sex at birth				
Black Female	171	7 (4%)	0	7 (4%)
Black Male	518	263 (51%)	14 (3%)	23 (4%)
Hispanic Female	16	0	0	0
Hispanic Male	66	16 (24%)	0	7 (11%)
Other Female	11	0	0	1 (9%)
Other Male	25	10 (40%)	0	2 (8%)
White Female	79	0	0	0
White Male	318	118 (37%)	2 (1%)	44 (14%)
Unknown Female	1	0	0	0
Unknown Male	9	3 (33%)	0	2 (22%)
Transmission Risk				
MSM/PWID	36	27 (75%)	0	2 (6%)
MSM	630	370 (59%)	15 (2%)	73 (12%)
PWID	21	3 (14%)	0	0
MSW	147	1 (1%)	0	1 (1%)
WSM	196	4 (2%)	0	5 (3%)
Unknown/Other	185	12 (6%)	1 (1%)	5 (3%)
Local Health Jurisdiction				
Allegan County	5	1 (20%)	0	2 (40%)
Barry-Eaton	18	2 (11%)	0	3 (17%)
Bay County	3	1 (33%)	0	1 (33%)
Benzie-Leelanau	0	0	0	0
Berrien County	7	3 (43%)	0	1 (14%)
Branch-Hillsdale-St. Joseph	6	3 (50%)	0	0
Calhoun County	14	5 (36%)	0	1 (7%)
Central Michigan District	2	1 (50%)	0	0
Chippewa County	4	1 (25%)	0	0
Delta-Menominee	2	1 (50%)	0	0
Detroit LHD	440	163 (37%)	8 (2%)	23 (5%)

LHD Jurisdictions continued on next page

1. Persons with HIV diagnosis on or prior to the date of any STD diagnosis (chlamydia, gonorrhea, or syphilis) in 2019

2. Persons with an HIV diagnosis within 30 days of STD 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 STD in 2019 (Diagnosis Count).

Table 2: Latent Syphilis-HIV Coinfections, 2019 (continued)

Population	Diagnoses of Latent Syphilis, 2019			
	Diagnosis Count	People Living with HIV		HIV negative, on PrEP* n (%)
		Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)	
Dickinson-Iron	0	0	0	0
District 2	1	0	0	0
District 4	1	0	0	0
District 10	13	2 (15%)	0	0
Genesee County	36	15 (42%)	1 (3%)	1 (3%)
Grand Traverse County	2	0	0	2 (100%)
Huron County	0	0	0	0
Ingham County	55	17 (31%)	0	5 (9%)
Ionia County	5	0	0	0
Jackson County	28	4 (14%)	0	3 (11%)
Kalamazoo County	25	9 (36%)	1 (4%)	3 (12%)
Kent County	80	16 (20%)	2 (3%)	4 (5%)
Lapeer County	1	1 (100%)	0	0
Lenawee County	0	0	0	0
Livingston County	9	2 (22%)	0	0
Luce-Mack-Alger-School	2	1 (50%)	1 (50%)	0
Macomb County	83	34 (41%)	1 (1%)	3 (4%)
Marquette County	2	2 (100%)	0	0
Midland County	3	0	0	1 (33%)
Mid-Michigan District	6	0	0	0
Monroe County	5	0	0	0
Muskegon County	13	1 (8%)	0	0
Northwest MI Com Hlth Agency	3	1 (33%)	0	0
Oakland County	147	56 (38%)	0	18 (12%)
Ottawa County	11	1 (9%)	0	0
Saginaw County	8	5 (63%)	0	1 (13%)
Sanilac County	1	1 (100%)	0	0
Shiawassee County	2	1 (50%)	0	0
St Clair County	7	1 (14%)	0	0
Tuscola County	0	0	0	0
Van Buren-Cass	4	2 (50%)	0	0
Washtenaw County	52	19 (37%)	1 (2%)	9 (17%)
Wayne LHD	109	45 (41%)	1 (1%)	5 (5%)
Western UP District	0	0	0	0
Unknown Jurisdiction	0	0	0	0

1. Persons with HIV diagnosis on or prior to the date of any STD diagnosis (chlamydia, gonorrhea, or syphilis) in 2019

2. Persons with an HIV diagnosis within 30 days of STD 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 STD in 2019.

Table 3: Gonorrhea-HIV Coinfections, 2019

Population	Diagnosis Count	Diagnoses of Gonorrhea, 2019	
		Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)
Michigan Total	18264	775 (4.2%)	28 (0.2%)
Age			
14 and under	100	0	0
15-19 years	3475	40 (1.2%)	4 (0.1%)
20-24 years	5393	135 (2.5%)	11 (0.2%)
25-29 years	4117	208 (5.1%)	7 (0.2%)
30-39 years	3320	235 (7.1%)	5 (0.2%)
40-49 years	1137	89 (7.8%)	0
50-59 years	516	56 (10.9%)	0
60+ years	206	12 (5.8%)	1 (0.5%)
Race/Sex at birth			
Black Female	4594	26 (0.6%)	1 (0.0%)
Black Male	5773	534 (9.2%)	20 (0.3%)
Hispanic Female	302	2 (0.7%)	0
Hispanic Male	265	22 (8.3%)	2 (0.8%)
Other Female	405	2 (0.5%)	0
Other Male	493	26 (5.3%)	1 (0.2%)
White Female	2099	8 (0.4%)	0
White Male	1576	90 (5.7%)	1 (0.1%)
Unknown Female	1306	6 (0.5%)	0
Unknown Male	1447	59 (4.1%)	3 (0.2%)
Transmission Risk			
MSM/PWID	25	19	1
MSM	1127	630	23
PWID	55	7	1
MSW	1186	21	0
WSM	1584	30	0
Unknown/Other	14287	68	3
<i>note that 78.2% of gonorrhea cases are missing risk, while <15% of HIV prevalent cases are missing this information</i>			
Local Health Jurisdiction			
Allegan County	109	1 (0.9%)	0
Barry-Eaton	141	4 (2.8%)	0
Bay County	106	1 (0.9%)	0
Benzie-Leelanau	7	0	0
Berrien County	303	2 (0.7%)	0
Branch-Hillsdale-St. Joseph	165	0	0
Calhoun County	471	1 (0.2%)	0
Central Michigan District	96	1 (1.0%)	0
Chippewa County	4	0	0
Delta-Menominee	9	1 (11.1%)	0
Detroit LHD	5835	389 (6.7%)	15 (0.3%)

LHD Jurisdictions continued on next page

1. Persons with HIV diagnosis on or prior to the date of any STD diagnosis (chlamydia, gonorrhea, or syphilis) in 2019

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

Table 3: Gonorrhea-HIV Coinfections, 2019 (continued)

Population	Diagnosis Count	Diagnoses of Gonorrhea, 2019	
		Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)
Dickinson-Iron	6	0	0
District 2	9	0	0
District 4	17	0	0
District 10	88	1 (1.1%)	0
Genesee County	1098	12 (1.1%)	0
Grand Traverse County	39	1 (2.6%)	0
Huron County	4	0	0
Ingham County	530	15 (2.8%)	0
Ionia County	32	0	0
Jackson County	250	3 (1.2%)	0
Kalamazoo County	1083	17 (1.6%)	0
Kent County	1286	23 (1.8%)	0
Lapeer County	33	0	0
Lenawee County	83	0	0
Livingston County	46	1 (2.2%)	0
Luce-Mack-Alger-School	10	0	0
Macomb County	1170	60 (5.1%)	5 (0.4%)
Marquette County	7	0	0
Midland County	40	0	0
Mid-Michigan District	101	1 (1.0%)	0
Monroe County	114	3 (2.6%)	0
Muskegon County	572	1 (0.2%)	0
Northwest MI Com Hlth Agency	12	0	0
Oakland County	1282	110 (8.6%)	5 (0.4%)
Ottawa County	161	0	0
Saginaw County	721	26 (3.6%)	0
Sanilac County	4	0	0
Shiawassee County	21	0	0
St Clair County	90	1 (1.1%)	0
Tuscola County	17	0	0
Van Buren-Cass	127	2 (1.6%)	0
Washtenaw County	574	21 (3.7%)	2 (0.3%)
Wayne LHD	1383	77 (5.6%)	1 (0.1%)
Western UP District	8	0	0
Unknown Jurisdiction	0	0	0

1. Persons with HIV diagnosis on or prior to the date of any STD diagnosis (chlamydia, gonorrhea, or syphilis) in 2019

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

Table 4: Chlamydia-HIV Coinfections, 2019

Population	Diagnosis Count	Diagnoses of Chlamydia, 2019	
		Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)
Michigan Total	50374	415 (0.8%)	14 (0.0%)
Age			
14 and under	421	0	0
15-19 years	14392	16 (0.1%)	0
20-24 years	18624	74 (0.4%)	4 (0.0%)
25-29 years	9286	113 (1.2%)	6 (0.1%)
30-39 years	5659	125 (2.2%)	3 (0.1%)
40-49 years	1391	51 (3.7%)	1 (0.1%)
50-59 years	462	33 (7.1%)	0
60+ years	139	3 (2.2%)	0
Race/Sex at birth			
Black Female	12290	23 (0.2%)	0
Black Male	7633	269 (3.5%)	11 (0.1%)
Hispanic Female	1434	0	0
Hispanic Male	632	15 (2.4%)	0
Other Female	2061	1 (0.0%)	0
Other Male	986	12 (1.2%)	0
White Female	10536	8 (0.1%)	0
White Male	4236	56 (1.3%)	3 (0.1%)
Unknown Female	6809	7 (0.1%)	0
Unknown Male	3735	24 (0.6%)	0
Transmission Risk			
MSM/PWID	23	16	1
MSM	834	323	10
PWID	74	5	1
MSW	2983	6	0
WSM	6401	30	0
Unknown/Other	40059	35	2
<i>note that 79.5% of chlamydia cases are missing risk, while <15% of HIV prevalent cases are missing this information</i>			
Local Health Jurisdiction			
Allegan County	407	3 (0.7%)	0
Barry-Eaton	594	2 (0.3%)	0
Bay County	388	1 (0.3%)	0
Benzie-Leelanau	66	0	0
Berrien County	863	4 (0.5%)	0
Branch-Hillsdale-St. Joseph	409	1 (0.2%)	0
Calhoun County	947	3 (0.3%)	0
Central Michigan District	589	0	0
Chippewa County	59	0	0
Delta-Menominee	169	0	0
Detroit LHD	11145	207 (1.9%)	9 (0.1%)

LHD Jurisdictions continued on next page

Table 4: Chlamydia-HIV Coinfections, 2019 (continued)

Population	Diagnosis Count	Diagnoses of Chlamydia, 2019	
		Coinfected w/ HIV ¹ n (%)	Co-diagnosed w/ HIV ² n (%)
Dickinson-Iron	97	0	0
District 2	92	0	0
District 4	131	0	0
District 10	757	4 (0.5%)	0
Genesee County	2938	6 (0.2%)	0
Grand Traverse County	271	0	0
Huron County	48	0	0
Ingham County	1807	5 (0.3%)	0
Ionia County	174	0	0
Jackson County	921	1 (0.1%)	0
Kalamazoo County	2320	13 (0.6%)	1 (0.0%)
Kent County	3623	13 (0.4%)	0
Lapeer County	173	0	0
Lenawee County	266	0	0
Livingston County	349	0	0
Luce-Mack-Alger-School	56	0	0
Macomb County	3568	31 (0.9%)	2 (0.1%)
Marquette County	240	1 (0.4%)	0
Midland County	195	0	0
Mid-Michigan District	579	1 (0.2%)	0
Monroe County	411	1 (0.2%)	0
Muskegon County	1325	2 (0.2%)	0
Northwest MI Com Hlth Agency	218	0	0
Oakland County	4436	49 (1.1%)	1 (0.0%)
Ottawa County	802	2 (0.2%)	1 (0.1%)
Saginaw County	1292	1 (0.1%)	0
Sanilac County	73	0	0
Shiawassee County	243	0	0
St Clair County	463	1 (0.2%)	0
Tuscola County	121	0	0
Van Buren-Cass	489	2 (0.4%)	0
Washtenaw County	1804	17 (0.9%)	0
Wayne LHD	4323	44 (1.0%)	0
Western UP District	133	0	0
Unknown Jurisdiction	0	0	0

Table 5: STD-HIV Coinfections and the HIV Care Continuum, 2019

Persons Living with HIV (Prevalence), 2019					
Diagnosed with an STD					
Prevalence Count	Coinfected w/ at least 1 STD ¹ n (% of PLWH)	In HIV Care ^A n (% of co-infected)	Virally Suppressed ^B n (% of co-infected)	Maintained Undetectable ^C n (% of co-infected)	
Population					
Michigan Total	16967	1341 (8%)	1275 (95%)	903 (67%)	655 (49%)
Age					
14 and under	80	0	0	0	0
15-19 years	105	28 (27%)	28 (100%)	21 (75%)	16 (57%)
20-24 years	617	150 (24%)	145 (97%)	85 (57%)	64 (43%)
25-29 years	1578	324 (21%)	305 (94%)	214 (66%)	149 (46%)
30-39 years	3493	459 (13%)	438 (95%)	299 (65%)	218 (47%)
40-49 years	3401	199 (6%)	185 (93%)	138 (69%)	96 (48%)
50-59 years	4688	140 (3%)	133 (95%)	108 (77%)	82 (59%)
60+ years	3005	41 (1%)	41 (100%)	38 (93%)	30 (73%)
Race/Sex at birth					
Black Female	2413	51 (2%)	46 (90%)	36 (71%)	24 (47%)
Black Male	7017	900 (13%)	852 (95%)	577 (64%)	418 (46%)
Hispanic Female	186	4 (2%)	4 (100%)	3 (75%)	2 (50%)
Hispanic Male	840	59 (7%)	59 (100%)	47 (80%)	32 (54%)
Other Female	156	5 (3%)	5 (100%)	3 (60%)	2 (40%)
Other Male	545	52 (10%)	49 (94%)	35 (67%)	25 (48%)
White Female	748	11 (1%)	11 (100%)	9 (82%)	7 (64%)
White Male	5062	259 (5%)	249 (96%)	193 (75%)	145 (56%)
Transmission Risk					
MSM/PWID	656	58 (9%)	57 (98%)	37 (64%)	28 (48%)
MSM	9431	1097 (12%)	1051 (96%)	748 (68%)	544 (50%)
PWID	949	16 (2%)	14 (88%)	9 (56%)	8 (50%)
MSW	725	22 (3%)	18 (82%)	10 (45%)	6 (27%)
WSM	2517	53 (2%)	48 (91%)	38 (72%)	24 (45%)
Unknown/Other	2689	95 (4%)	87 (92%)	61 (64%)	45 (47%)
Local Health Jurisdiction					
Allegan County	130	7 (5%)	7 (100%)	5 (71%)	4 (57%)
Barry-Eaton	117	7 (6%)	7 (100%)	5 (71%)	5 (71%)
Bay County	81	3 (4%)	3 (100%)	2 (67%)	2 (67%)
Benzie-Leelanau	15	0	0	0	0
Berrien County	236	9 (4%)	9 (100%)	4 (44%)	4 (44%)
Branch-Hillsdale-St. Joseph	82	4 (5%)	4 (100%)	4 (100%)	3 (75%)
Calhoun County	199	7 (4%)	7 (100%)	5 (71%)	5 (71%)
Central Michigan District	130	4 (3%)	4 (100%)	3 (75%)	3 (75%)
Chippewa County	17	1 (6%)	1 (100%)	1 (100%)	0
Delta-Menominee	32	1 (3%)	1 (100%)	1 (100%)	0
Detroit LHD	5328	606 (11%)	578 (95%)	394 (65%)	277 (46%)

LHD Jurisdictions continued on next page

1. Persons with HIV diagnosis on or prior to the date of any STD diagnosis (chlamydia, gonorrhea, or syphilis) in 2019

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 STD diagnosis.

B. Virally Suppressed (VS) - 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 STD diagnosis.

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

Table 5: STD-HIV Coinfections and the HIV Care Continuum, 2019 (continued)

Population	Prevalence Count	Persons Living with HIV (Prevalence), 2019			
		Diagnosed with an STD	In HIV Care ^A	Virally Suppressed ^B	Maintained Undetectable ^C
		Coinfected w/ at least 1 STD ¹ n (% of PLWH)	n (% of co-infected)	n (% of co-infected)	n (% of co-infected)
Dickinson-Iron	11	0	0	0	0
District 2	34	0	0	0	0
District 4	41	0	0	0	0
District 10	151	3 (2%)	3 (100%)	1 (33%)	0
Genesee County	588	28 (5%)	28 (100%)	17 (61%)	11 (39%)
Grand Traverse County	87	1 (1%)	1 (100%)	1 (100%)	0
Huron County	7	0	0	0	0
Ingham County	471	34 (7%)	33 (97%)	23 (68%)	20 (59%)
Ionia County	36	0	0	0	0
Jackson County	168	7 (4%)	7 (100%)	5 (71%)	4 (57%)
Kalamazoo County	405	34 (8%)	31 (91%)	25 (74%)	15 (44%)
Kent County	1077	41 (4%)	37 (90%)	28 (68%)	20 (49%)
Lapeer County	47	2 (4%)	2 (100%)	1 (50%)	0
Lenawee County	56	0	0	0	0
Livingston County	99	3 (3%)	3 (100%)	1 (33%)	1 (33%)
Luce-Mack-Alger-School	19	1 (5%)	1 (100%)	1 (100%)	1 (100%)
Macomb County	1283	114 (9%)	107 (94%)	75 (66%)	54 (47%)
Marquette County	37	1 (3%)	1 (100%)	1 (100%)	1 (100%)
Midland County	41	1 (2%)	1 (100%)	0	0
Mid-Michigan District	88	3 (3%)	3 (100%)	2 (67%)	2 (67%)
Monroe County	106	4 (4%)	3 (75%)	3 (75%)	1 (25%)
Muskegon County	182	4 (2%)	3 (75%)	2 (50%)	2 (50%)
Northwest MI Com Hlth Agency	61	1 (2%)	1 (100%)	1 (100%)	0
Oakland County	2165	177 (8%)	167 (94%)	125 (71%)	96 (54%)
Ottawa County	149	3 (2%)	3 (100%)	2 (67%)	2 (67%)
Saginaw County	260	30 (12%)	28 (93%)	21 (70%)	18 (60%)
Sanilac County	23	1 (4%)	1 (100%)	0	0
Shiawassee County	48	1 (2%)	1 (100%)	1 (100%)	1 (100%)
St Clair County	0	0	0	0	0
Tuscola County	13	0	0	0	0
Van Buren-Cass	79	6 (8%)	5 (83%)	5 (83%)	5 (83%)
Washtenaw County	555	45 (8%)	44 (98%)	32 (71%)	22 (49%)
Wayne LHD	1750	136 (8%)	129 (95%)	97 (71%)	69 (51%)
Western UP District	35	0	0	0	0
Unknown Jurisdiction	2	0	0	0	0
Prison*	318	9 (3%)	9 (100%)	7 (78%)	6 (67%)

1. Persons with HIV diagnosis on or prior to the date of any STD diagnosis (chlamydia, gonorrhea, or syphilis) in 2019

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