



HIV Trends Report, New diagnoses 2010-2019

Data as of July, 2020



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7	21	10
2	18	7
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The HIV Trend Report includes persons diagnosed with HIV while living in Michigan. When available, census data are used to calculate rates of new diagnoses. For populations where census data are not available (for example, number of persons who inject drugs), the proportion of newly diagnosed persons who fall into a given category are assessed. Using rates and proportions (rather than counts) when comparing regions, demographic groups, or changes over time is critical. For further explanation, see our 5 minute [Epidemiology 101 video](#). Negative binomial regression and Poisson distributions are utilized to determine statistically significant changes in new diagnoses over the preceding 10 years. This report is meant to guide care and prevention strategies by observing long term trends. Changes in short term trends - such as an outbreak - are monitored by the HIV Surveillance Program monthly.

The following measures are displayed in this report:

Count: The number of persons newly diagnosed during the given year.

Pop: The total population (census) during the given year.

Est pop: Estimated population for men who have sex with men (MSM). It is estimated at 5.8% of Michigan's adult male population¹.

Rate: The new diagnosis rate per 100,000 persons in the specified population during the given year (count/pop x 100,000 or count/est pop x 100,000).

MI %: Of persons newly diagnosed in Michigan during a given year, the percent who fall into the specified group (count/total new diagnoses among Michigan residents).

DMA %: Of persons newly diagnosed in the Detroit Metro Area (DMA) during a given year, the percent who fall into the specified group. The DMA includes Lapeer, Macomb, Monroe, Oakland, St. Clair, and Wayne Counties. (count/total new diagnoses among DMA residents).

DLHD %: Of persons newly diagnosed in Detroit Local Health Department Jurisdiction (DLHD) during a given year, the percent who fall into the specified group. The Detroit LHD includes the cities of Detroit, Highland Park, Hamtramck, Harper Woods, and the Grosse Pointes (count/total new diagnoses among Detroit LHD jurisdiction residents).

% change (95CI): Average annual percent change and 95% confidence interval. This measure is only displayed when statistically significant changes are observed ($p < 0.05$) or if a trend is marginally significant or deemed important. Average annual percent change is calculated by assessing the count offset by the underlying population (either census populations when available or regional new diagnosis totals when census data are not available). Essentially, the average annual percent change refers to the rate, MI%, DMA% or Detroit LHD %. Be careful when interpreting percent changes of percents. A decrease in MI % from 10% to 9% is a -0.1% change (not -1%). The calculation is $(9\% - 10\%) / 10\% = -0.1\%$.

Trend Highlights

The slide set that accompanies this report contains all the noteworthy trends for all three regions (statewide, DMA, and Detroit LHD). However, as **Young (15-29 yr old) Black/AA men (YBM)** have been a priority population for many years, it is worthwhile to point out observations among this group here as well. New diagnoses began increasing among YBM statewide by the year 2000 and appear to have peaked in 2013-2014. The steady, statistically significant decline across Michigan since 2013 is a promising sign for YBM. Care and prevention efforts should remain focused on this group as they continue to shoulder a disproportionate burden. The rate of new diagnoses among YBM is currently 15 times higher than other 15-29 year olds and 18 times higher than those over 30. While YBM are linked to care and achieving viral suppression more quickly than ever before, they are less likely to remain in care and virally suppressed compared to other youth and persons over 30 years old.

¹Lieb S, Fallon S, Friedman S, Thompson D, Gates G, Liberti T, et al. (2011) Statewide Estimation of Racial/Ethnic Populations of Men Who Have Sex with Men in the U.S. ASPH Public Health Reports vol 126 pg 60-72



The state of Michigan, 2010 - 2019

Persons living in Michigan at time of HIV diagnosis

New Michigan HIV diagnoses 2010 - 2019: Geographic Stratification (last reported address each year)

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Michigan	count	763	771	793	746	782	724	736	769	708	665	
	pop	9,877,510	9,882,412	9,897,145	9,913,065	9,929,848	9,931,715	9,950,571	9,973,114	9,984,072	9,986,857	
	rate	7.7	7.8	8.0	7.5	7.9	7.3	7.4	7.7	7.1	6.7	-1.40% (-2.2%, -0.6%)
DMA ¹	count	539	523	548	498	521	481	498	512	477	430	
	pop	4,262,375	4,261,149	4,268,885	4,271,521	4,275,514	4,271,855	4,276,872	4,281,173	4,281,068	4,278,134	
	rate	12.6	12.3	12.8	11.7	12.2	11.3	11.6	12.0	11.1	10.1	-1.90% (-2.8%, -0.9%)
Outstate ²	count	216	236	236	237	253	232	228	248	218	228	
	pop	5,615,135	5,621,263	5,628,260	5,641,544	5,654,334	5,659,860	5,673,699	5,691,941	5,703,004	5,708,723	
	rate	3.8	4.2	4.2	4.2	4.5	4.1	4.0	4.4	3.8	4.0	No significant change
Prison ³	count	8	12	9	11	8	11	10	9	13	7	
	MI %	1.0%	1.6%	1.1%	1.5%	1.0%	1.5%	1.4%	1.2%	1.8%	1.1%	No significant change

Local Health Department (LHD) Jurisdiction

Allegan Co.	count	1	1	1	1	1	3	2	7	2	3	
	pop	111,523	111,163	111,499	112,009	113,349	114,112	114,979	116,368	117,173	118,081	
	rate	0.9	0.9	0.9	0.9	0.9	2.6	1.7	6.0	1.7	2.5	+18.0% (9.6%, 38.0%)
Barry-Eaton	count	5	1	2	7	8	8	5	3	5	4	
	pop	166,841	166,844	167,019	167,354	167,934	168,087	168,993	170,138	170,941	171,818	
	rate	3.0	0.6	1.2	4.2	4.8	4.8	3.0	1.8	2.9	2.3	No significant change
Berrien Co.	count	5	12	10	15	10	6	5	9	3	2	
	pop	156,737	156,885	156,621	156,129	155,977	155,022	154,325	154,128	153,790	153,401	
	rate	3.2	7.6	6.4	9.6	6.4	3.9	3.2	5.8	2.0	1.3	-10.5% (-19.3%, -0.6%)
Branch-Hillsdale-St. Joseph	count	4	2	4	3	5	2	1	2	5	3	
	pop	153,110	151,590	151,051	150,707	150,678	150,326	150,029	149,905	150,180	150,086	
	rate	2.6	1.3	2.6	2.0	3.3	1.3	0.7	1.3	3.3	2.0	No significant change
Calhoun Co.	count	3	13	6	8	8	6	6	3	9	10	
	pop	135,951	135,105	134,737	134,751	134,804	134,327	134,344	134,180	134,049	134,159	
	rate	2.2	9.6	4.5	5.9	5.9	4.5	4.5	2.2	6.7	7.5	No significant change
Central Michigan ⁴	count	20	30	16	21	22	19	14	20	20	29	
	pop	1,202,628	1,203,173	1,200,658	1,199,554	1,198,777	1,197,954	1,198,088	1,200,932	1,203,681	1,204,916	
	rate	1.7	2.5	1.3	1.8	1.8	1.6	1.2	1.7	1.7	2.4	No significant change
Detroit LHD ⁵	count	294	294	286	265	263	248	267	240	236	208	
	pop	852,105	829,976	812,311	796,613	784,791	779,098	771,883	768,073	765,192	765,192	
	rate	34.5	35.4	35.2	33.3	33.5	31.8	34.6	31.2	30.8	27.2	-2.1% (-3.4%, -0.8%)
Genesee Co.	count	19	26	32	24	20	27	36	33	30	32	
	pop	424,953	422,026	418,193	415,639	412,859	410,461	408,926	407,488	406,688	405,813	
	rate	4.5	6.2	7.7	5.8	4.8	6.6	8.8	8.1	7.4	7.9	+4.8% (0.6%, 9.2%)

LHD Jurisdictions continued on next page

¹Detroit Metro Area (DMA) includes Lapeer, Macomb, Monroe, Oakland, St. Clair, and Wayne Counties. Prisons are excluded. ²Outstate includes Michigan residents outside the DMA. Prisons are excluded. ³Persons in prisons (state or federal) located in Michigan. Reported separately for geographic stratification. ⁴Central Michigan LHD includes all otherwise unlisted counties in the lower peninsula. ⁵Detroit LHD includes the cities of Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes. Detroit, under "select cities" (page 7), includes only residents of the city of Detroit.

New Michigan HIV diagnoses 2010 - 2019: Geographic Stratification (last reported address each year)

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Local Health Department (LHD) Jurisdiction, continued from previous page												
Huron Co.	count	0	0	2	0	1	0	0	0	0	0	
	pop	33,083	32,766	32,453	32,256	32,038	31,763	31,486	31,306	31,211	30,981	
	rate	0	0	6.2	0	3.1	0	0	0	0	0	No significant change
Ingham Co.	count	27	28	25	18	25	14	27	26	16	16	
	pop	281,116	282,787	283,514	284,113	285,627	287,096	289,804	292,018	291,612	292,406	
	rate	9.6	9.9	8.8	6.3	8.8	4.9	9.3	8.9	5.5	5.5	-4.8% (-9.1%, -0.3%)
Ionia Co.	count	1	3	1	2	1	2	1	2	2	2	
	pop	63,842	63,860	63,888	63,991	64,232	64,056	64,187	64,284	64,276	64,697	
	rate	1.6	4.7	1.6	3.1	1.6	3.1	1.6	3.1	3.1	3.1	No significant change
Jackson Co.	count	9	7	3	7	14	8	6	10	0	4	
	pop	160,109	159,658	159,962	159,628	159,421	159,264	158,277	158,563	158,566	158,510	
	rate	5.6	4.4	1.9	4.4	8.8	5	3.8	6.3	0	2.5	No significant change
Kalamazoo Co.	count	13	18	26	12	19	18	10	19	15	27	
	pop	250,751	252,600	255,353	257,311	258,951	259,676	261,304	262,998	264,680	265,066	
	rate	5.2	7.1	10.2	4.7	7.3	6.9	3.8	7.2	5.7	10.2	No significant change
Kent Co.	count	35	39	47	40	51	42	46	46	39	41	
	pop	602,975	608,501	615,798	624,303	631,334	637,164	643,858	649,278	653,350	656,955	
	rate	5.8	6.4	7.6	6.4	8.1	6.6	7.1	7.1	6	6.2	No significant change
Lapeer Co.	count	4	2	1	1	0	1	3	3	4	2	
	pop	88,210	88,094	88,195	88,291	88,194	88,368	88,171	88,122	87,921	87,607	
	rate	4.5	2.3	1.1	1.1	0	1.1	3.4	3.4	4.5	2.3	No significant change
Lenawee Co.	count	6	4	1	2	3	2	2	4	8	2	
	pop	99,640	99,355	99,021	98,822	98,740	98,391	98,496	98,427	98,141	98,451	
	rate	6	4	1	2	3	2	2	4.1	8.2	2	No significant change
Livingston Co.	count	4	1	4	6	4	7	2	3	3	6	
	pop	181,069	182,043	182,783	184,205	185,527	187,171	188,547	189,869	191,190	191,995	
	rate	2.2	0.5	2.2	3.3	2.2	3.7	1.1	1.6	1.6	3.1	No significant change
Macomb Co.	count	47	51	59	53	50	62	54	70	76	55	
	pop	841,352	844,146	849,734	857,110	862,876	864,960	868,534	871,364	872,795	873,972	
	rate	5.6	6	6.9	6.2	5.8	7.2	6.2	8	8.7	6.3	+2.9% (0.0%, 5.9%)
Marquette ¹	count	4	5	5	3	1	6	4	7	2	6	
	pop	311,370	311,057	310,567	309,357	307,519	305,307	302,703	301,820	300,631	298,851	
	rate	1.3	1.6	1.6	1	0.3	2	1.3	2.3	0.7	2	No significant change
Monroe Co.	count	5	5	6	3	4	6	3	4	9	4	
	pop	151,936	151,496	150,804	150,139	149,847	149,353	149,159	149,449	150,174	150,500	
	rate	3.3	3.3	4	2	2.7	4	2	2.7	6	2.7	No significant change
Muskegon Co.	count	3	3	2	6	8	6	5	3	9	4	
	pop	171,913	170,026	170,159	172,273	172,254	172,447	173,227	173,645	173,599	173,566	
	rate	1.7	1.8	1.2	3.5	4.6	3.5	2.9	1.7	5.2	2.3	No significant change

LHD Jurisdictions continued on next page

¹Marquette LHD includes the entire upper peninsula

New Michigan HIV diagnoses 2010 - 2019: Geographic Stratification (last reported address each year)

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Local Health Department (LHD) Jurisdiction, continued from previous page												
Oakland Co.	count	104	108	108	101	103	84	90	103	82	77	
	pop	1,203,106	1,212,643	1,223,598	1,235,468	1,242,853	1,244,602	1,251,027	1,256,016	1,256,694	1,257,584	
	rate	8.6	8.9	8.8	8.2	8.3	6.7	7.2	8.2	6.5	6.1	-3.60% (-5.7%, -1.5%)
Ottawa Co.	count	7	3	2	4	7	10	3	11	7	9	
	pop	264,130	266,929	270,873	274,385	277,864	280,859	283,712	286,581	289,808	291,830	
	rate	2.7	1.1	0.7	1.5	2.5	3.6	1.1	3.8	2.4	3.1	No significant change
Saginaw Co.	count	22	9	15	18	12	6	19	19	9	5	
	pop	199,862	198,899	198,363	196,794	195,248	193,305	192,507	191,965	190,791	190,539	
	rate	11	4.5	7.6	9.1	6.1	3.1	9.9	9.9	4.7	2.6	No significant change
Sanilac Co.	count	0	3	0	0	0	1	1	1	0	0	
	pop	43,087	42,705	42,306	41,901	41,661	41,464	41,405	41,242	41,192	41,170	
	rate	0	7	0	0	0	2.4	2.4	2.4	0	0	No significant change
Shiawassee Co.	count	0	0	0	0	4	4	0	1	1	1	
	pop	70,634	69,998	69,329	68,903	68,808	68,505	68,542	68,400	68,133	68,122	
	rate	0	0	0	0	5.8	5.8	0	1.5	1.5	1.5	No significant change
St. Clair Co.	count	9	5	4	5	1	6	9	4	5	7	
	pop	162,690	161,581	160,625	160,288	160,065	159,700	159,369	159,005	159,031	159,128	
	rate	5.5	3.1	2.5	3.1	0.6	3.8	5.6	2.5	3.1	4.4	No significant change
Tuscola Co.	count	1	0	3	2	0	0	0	0	1	0	
	pop	55,698	55,400	54,708	54,216	53,923	53,726	53,276	52,815	52,633	52,245	
	rate	1.8	0	5.5	3.7	0	0	0	0	1.9	0	No significant change
Van Buren-Cass	count	3	2	4	4	3	2	3	2	4	1	
	pop	128,396	128,140	127,102	126,903	126,788	126,402	126,549	126,784	127,206	127,464	
	rate	2.3	1.6	3.1	3.2	2.4	1.6	2.4	1.6	3.1	0.8	No significant change
Washtenaw Co.	count	24	26	25	34	26	33	30	17	28	21	
	pop	345,717	349,753	352,303	356,040	360,021	362,975	366,135	368,807	369,483	367,601	
	rate	6.9	7.4	7.1	9.5	7.2	9.1	8.2	4.6	7.6	5.7	No significant change
Wayne Co. (excl Detroit LHD)	count	76	58	84	70	100	74	72	88	65	77	
	pop	962,976	973,213	983,618	983,612	986,888	985,774	988,729	989,144	989,261	984,151	
	rate	7.9	6	8.5	7.1	10.1	7.5	7.3	8.9	6.6	7.8	No significant change

New Michigan HIV diagnoses 2010 - 2019: Geographic Stratification (last reported address each year)

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Metropolitan Statistical Areas (MSA's)¹												
Ann Arbor	count	24	26	25	34	26	33	30	17	28	21	
	pop	345,717	349,753	352,303	356,040	360,021	362,975	366,135	368,807	369,483	367,601	
	rate	6.9	7.4	7.1	9.5	7.2	9.1	8.2	4.6	7.6	5.7	No significant change
Battle Creek	count	3	13	6	8	8	6	6	3	9	10	
	pop	135,951	135,105	134,737	134,751	134,804	134,327	134,344	134,180	134,049	134,159	
	rate	2.2	9.6	4.5	5.9	5.9	4.5	4.5	2.2	6.7	7.5	No significant change
Bay City	count	2	3	3	2	2	1	5	7	6	3	
	pop	107,679	107,417	106,967	106,794	106,046	105,237	104,411	104,045	103,702	103,126	
	rate	1.9	2.8	2.8	1.9	1.9	1.0	4.8	6.7	5.8	2.9	No significant change
Detroit-Warren- Dearborn	count	538	519	546	501	521	482	497	511	471	432	
	pop	4,291,508	4,291,696	4,300,864	4,305,587	4,311,194	4,309,673	4,316,260	4,321,593	4,322,084	4,319,629	
	rate	12.5	12.1	12.7	11.6	12.1	11.2	11.5	11.8	10.9	10.0	-1.90% (-2.8%, -0.9%)
Flint	count	19	26	32	24	20	27	36	33	30	32	
	pop	424,953	422,026	418,193	415,639	412,859	410,461	408,926	407,488	406,688	405,813	
	rate	4.5	6.2	7.7	5.8	4.8	6.6	8.8	8.1	7.4	7.9	+4.8% (0.6%, 9.2%)
Grand Rapids- Wyoming	count	45	44	50	47	65	54	49	59	48	51	
	pop	989,515	997,619	1,008,790	1,020,572	1,031,297	1,040,212	1,050,333	1,060,068	1,068,325	1,074,223	
	rate	4.5	4.4	5.0	4.6	6.3	5.2	4.7	5.6	4.5	4.7	No significant change
Jackson	count	9	7	3	7	14	8	6	10	0	4	
	pop	160,109	159,658	159,962	159,628	159,421	159,264	158,277	158,563	158,566	158,510	
	rate	5.6	4.4	1.9	4.4	8.8	5.0	3.8	6.3	0.0	2.5	No significant change
Kalamazoo- Portage	count	15	19	29	15	21	20	13	20	16	27	
	pop	326,900	328,536	330,651	332,629	334,177	334,736	336,571	338,301	340,161	340,743	
	rate	4.6	5.8	8.8	4.5	6.3	6.0	3.9	5.9	4.7	7.9	No significant change
Lansing-E Lansing	count	31	30	30	24	33	24	35	27	21	22	
	pop	464,265	466,607	467,676	469,186	471,220	472,766	476,604	479,980	480,541	482,269	
	rate	6.7	6.4	6.4	5.1	7.0	5.1	7.3	5.6	4.4	4.6	No significant change
Midland	count	1	0	0	2	0	2	0	2	0	2	
	pop	83,651	83,805	83,721	83,651	83,492	83,662	83,422	83,314	83,223	83,156	
	rate	1.2	0.0	0.0	2.4	0.0	2.4	0.0	2.4	0.0	2.4	No significant change
Monroe	count	5	5	6	3	4	6	3	4	9	4	
	pop	151,936	151,496	150,804	150,139	149,847	149,353	149,159	149,449	150,174	150,500	
	rate	3.3	3.3	4.0	2.0	2.7	4.0	2.0	2.7	6.0	2.7	No significant change
Muskegon	count	3	3	2	6	8	6	5	3	9	4	
	pop	171,913	170,026	170,159	172,273	172,254	172,447	173,227	173,645	173,599	173,566	
	rate	1.7	1.8	1.2	3.5	4.6	3.5	2.9	1.7	5.2	2.3	No significant change
Niles-Benton Harbor	count	5	12	10	15	10	6	5	9	3	2	
	pop	156,737	156,885	156,621	156,129	155,977	155,022	154,325	154,128	153,790	153,401	
	rate	3.2	7.6	6.4	9.6	6.4	3.9	3.2	5.8	2.0	1.3	-10.5% (-19.3%, -0.7%)

MSA's continued on next page

¹MSA designations: https://www2.census.gov/geo/maps/metroarea/stcbsa_pg/Feb2013/cbsa2013_MI.pdf

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Metropolitan Statistical Areas (MSA's)¹, continued from previous page												
Saginaw	count	0	0	2	0	1	0	0	0	0	0	
	pop	33,083	32,766	32,453	32,256	32,038	31,763	31,486	31,306	31,211	30,981	
	rate	0	0	6.2	0	3.1	0	0	0	0	0	No significant change
Micropolitan Area	count	27	28	25	18	25	14	27	26	16	16	
	pop	281,116	282,787	283,514	284,113	285,627	287,096	289,804	292,018	291,612	292,406	
	rate	9.6	9.9	8.8	6.3	8.8	4.9	9.3	8.9	5.5	5.5	No significant change
Rural	count	1	3	1	2	1	2	1	2	2	2	
	pop	63,842	63,860	63,888	63,991	64,232	64,056	64,187	64,284	64,276	64,697	
	rate	1.6	4.7	1.6	3.1	1.6	3.1	1.6	3.1	3.1	3.1	No significant change

¹MSA designations: https://www2.census.gov/geo/maps/metroarea/stcbsa_pg/Feb2013/cbsa2013_MI.pdf

New Michigan HIV diagnoses 2010 - 2019: Geographic Stratification (last reported address each year)

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Select cities: cities with at least 50 new HIV diagnoses over the 10 year period.												
Ann Arbor	count	13	12	16	12	8	6	11	6	15	8	
	pop	118,525	119,936	120,499	121,283	123,199	124,369	125,439	126,024	125,972	124,500	
	rate	11.0	10.0	13.3	9.9	6.5	4.8	8.8	4.8	11.9	6.4	No significant change
Battle Creek	count	2	8	6	7	7	6	6	3	9	7	
	pop	52,315	51,991	51,871	51,788	51,776	51,556	51,453	51,275	51,105	51,093	
	rate	3.8	15.4	11.6	13.5	13.5	11.6	11.7	5.9	17.6	13.7	No significant change
Canton	count	8	6	5	5	5	7	3	5	5	7	
	pop	89,983	89,596	89,587	89,451	90,015	90,217	90,897	91,914	92,955	93,704	
	rate	8.9	6.7	5.6	5.6	5.6	7.8	3.3	5.4	5.4	7.5	No significant change
Clinton Township	count	6	12	12	7	5	6	12	11	7	8	
	pop	96,831	97,235	98,014	98,731	99,407	99,901	100,485	100,684	100,542	100,471	
	rate	6.2	12.3	12.2	7.1	5.0	6.0	11.9	10.9	7.0	8.0	No significant change
Dearborn	count	7	4	7	8	6	3	7	3	4	9	
	pop	97,849	97,173	96,878	96,065	95,973	95,488	95,052	94,708	94,379	93,932	
	rate	7.2	4.1	7.2	8.3	6.3	3.1	7.4	3.2	4.2	9.6	No significant change
Detroit	count	280	281	272	254	252	237	253	228	224	197	
	pop	711,131	705,118	700,183	691,868	682,609	679,410	677,143	674,631	672,977	670,031	
	rate	39.4	39.9	38.8	36.7	36.9	34.9	37.4	33.8	33.3	29.4	-2.7% (-4.0%, -1.3%)
Eastpointe	count	5	8	4	9	10	3	2	6	15	10	
	pop	32,404	32,404	32,511	32,671	32,738	32,609	32,629	32,515	32,279	32,081	
	rate	15.4	24.7	12.3	27.5	30.5	9.2	6.1	18.5	46.5	31.2	No significant change
Ferndale	count	11	10	14	8	10	3	6	5	3	3	
	pop	19,901	20,036	20,175	20,296	20,316	20,227	20,213	20,166	20,041	20,033	
	rate	55.3	49.9	69.4	39.4	49.2	14.8	29.7	24.8	15.0	15.0	-14.4% (-21.4%, -6.8%)
Flint	count	13	21	25	19	15	15	27	28	24	19	
	pop	134,053	133,044	131,740	130,793	129,703	128,687	127,848	127,050	126,417	125,895	
	rate	9.7	15.8	19.0	14.5	11.6	11.7	21.1	22.0	19.0	15.1	No significant change
Grand Rapids	count	24	30	31	27	40	31	32	34	29	36	
	pop	204,692	206,027	207,985	210,481	212,069	213,064	214,853	217,495	218,719	219,735	
	rate	11.7	14.6	14.9	12.8	18.9	14.5	14.9	15.6	13.3	16.4	No significant change
Highland Park	count	12	7	6	6	4	6	10	7	8	5	
	pop	11,672	11,392	11,137	11,046	11,024	10,966	10,913	10,866	10,813	10,775	
	rate	102.8	61.4	53.9	54.3	36.3	54.7	91.6	64.4	74.0	46.4	No significant change
Inkster	count	13	4	9	9	9	6	8	9	4	10	
	pop	25,306	25,168	25,101	24,871	24,856	24,729	24,618	24,519	24,406	24,284	
	rate	51.4	15.9	35.9	36.2	36.2	24.3	32.5	36.7	16.4	41.2	No significant change
Jackson	count	15	15	11	11	21	12	9	9	9	10	
	pop	33,429	33,235	33,191	33,128	33,020	32,929	32,716	32,702	32,566	32,440	
	rate	44.9	45.1	33.1	33.2	63.6	36.4	27.5	27.5	27.6	30.8	No significant change

Select cities continued on next page

New Michigan HIV diagnoses 2010 - 2019: Geographic Stratification (last reported address each year)

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Select cities, continued from previous page												
Kalamazoo	count	12	17	25	11	13	17	6	15	12	23	
	pop	96,275	96,766	97,818	98,201	98,583	98,335	98,415	98,467	99,126	98,851	
	rate	12.5	17.6	25.6	11.2	13.2	17.3	6.1	15.2	12.1	23.3	No significant change
Lansing	count	20	22	17	18	24	18	26	22	14	13	
	pop	122,504	122,761	122,867	122,944	123,304	123,557	124,827	126,003	126,193	126,457	
	rate	16.3	17.9	13.8	14.6	19.5	14.6	20.8	17.5	11.1	10.3	No significant change
Pontiac	count	19	21	14	15	14	10	13	23	13	16	
	pop	59,687	59,913	60,299	60,448	60,466	60,260	60,224	60,123	59,741	59,438	
	rate	31.8	35.1	23.2	24.8	23.2	16.6	21.6	38.3	21.8	26.9	No significant change
Redford	count	7	5	5	9	5	5	4	5	3	5	
	pop	48,177	47,900	47,863	47,502	47,556	47,415	47,264	47,100	46,921	46,674	
	rate	14.5	10.4	10.4	18.9	10.5	10.5	8.5	10.6	6.4	10.7	No significant change
Royal Oak	count	10	7	12	7	6	8	5	8	5	4	
	pop	59,680	60,138	60,579	61,018	61,230	61,206	61,680	61,821	61,788	61,695	
	rate	16.8	11.6	19.8	11.5	9.8	13.1	8.1	12.9	8.1	6.5	-7.9% (-15.1%, -0.0%)
Saginaw	count	22	9	15	18	11	6	19	18	8	4	
	pop	92,164	91,649	91,399	90,625	89,805	88,846	88,429	88,144	87,529	87,265	
	rate	23.9	9.8	16.4	19.9	12.2	6.8	21.5	20.4	9.1	4.6	No significant change
Southfield	count	14	21	16	21	16	18	16	17	13	12	
	pop	86,315	86,897	87,454	88,079	88,336	88,237	88,331	88,252	87,782	87,448	
	rate	16.2	24.2	18.3	23.8	18.1	20.4	18.1	19.3	14.8	13.7	No significant change
Sterling Heights	count	5	3	7	4	5	10	0	11	11	5	
	pop	129,709	130,042	130,672	131,521	132,136	132,041	132,522	132,681	132,725	132,438	
	rate	3.9	2.3	5.4	3	3.8	7.6	0	8.3	8.3	3.8	No significant change
Taylor	count	3	3	5	4	8	10	7	9	6	6	
	pop	62,982	62,631	62,465	61,957	62,068	61,777	61,580	61,404	61,163	60,922	
	rate	4.8	4.8	8	6.5	12.9	16.2	11.4	14.7	9.8	9.8	+8.6% (-0.6%, 18.7%)
Warren	count	15	16	14	15	11	18	11	19	16	10	
	pop	134,081	134,173	134,590	135,312	135,666	135,386	135,245	135,100	134,376	133,943	
	rate	11.2	11.9	10.4	11.1	8.1	13.3	8.1	14.1	11.9	7.5	No significant change
Westland	count	3	6	9	10	18	9	5	11	8	10	
	pop	83,959	83,518	83,334	82,659	82,628	82,321	82,115	81,940	81,752	81,511	
	rate	3.6	7.2	10.8	12.1	21.8	10.9	6.1	13.4	9.8	12.3	No significant change
Ypsilanti	count	10	11	8	21	13	24	15	10	13	11	
	pop	73,015	73,683	74,251	75,031	75,345	75,700	75,990	76,322	76,245	75,387	
	rate	13.7	14.9	10.8	28	17.3	31.7	19.7	13.1	17.1	14.6	No significant change

New Michigan HIV diagnoses 2010 - 2019: Demographic Stratification

	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)	
Sex at birth													
Male	count	616	616	646	625	639	595	624	626	566	556		
	pop	4,845,176	4,848,240	4,858,860	4,868,915	4,880,033	4,884,403	4,896,613	4,909,981	4,916,210	4,918,528		
	rate	12.7	12.7	13.3	12.8	13.1	12.2	12.7	12.7	11.5	11.3	-1.2%	(-2.1%, -0.3%)
Female	count	147	155	147	121	143	129	112	143	142	109		
	pop	5,032,334	5,034,172	5,038,285	5,044,150	5,049,815	5,047,312	5,053,958	5,063,133	5,067,862	5,068,329		
	rate	2.9	3.1	2.9	2.4	2.8	2.6	2.2	2.8	2.8	2.2	-2.3%	(-4.2%, -0.3%)
Trans-gender ¹	count	14	13	20	13	18	10	21	16	17	16		
	MI %	1.8%	1.7%	2.5%	1.7%	2.3%	1.4%	2.9%	2.1%	2.4%	2.4%	No significant change	
Race by sex at birth²													
Black/AA overall	count	461	474	485	478	470	442	419	449	408	384		
	pop	1,449,127	1,450,678	1,452,001	1,450,583	1,451,148	1,450,482	1,452,126	1,454,055	1,455,280	1,456,845		
	rate	31.8	32.7	33.4	33.0	32.4	30.5	28.9	30.9	28.0	26.4	-2.1%	(-3.1%, -1.1)
Black/AA males	count	352	365	383	397	368	355	353	350	320	316		
	pop	689,008	689,370	690,306	689,750	690,283	690,295	691,465	691,980	692,273	692,778		
	rate	51.1	52.9	55.5	57.6	53.3	51.4	51.1	50.6	46.2	45.6	-1.7%	(-2.8%, -0.5%)
Black/AA females	count	109	109	102	81	102	87	66	99	88	68		
	pop	760,119	761,308	761,695	760,833	760,865	760,187	760,661	762,075	763,007	764,067		
	rate	14.3	14.3	13.4	10.6	13.4	11.4	8.7	13.0	11.5	8.9	-3.9%	(-6.3%, -1.4%)
Latinx overall	count	48	47	33	36	47	44	48	59	49	52		
	pop	437,872	446,702	458,236	467,590	476,714	485,172	496,928	507,455	518,477	528,205		
	rate	11.0	10.5	7.2	7.7	9.9	9.1	9.7	11.6	9.5	9.8	No significant change	
Latinx males	count	41	37	25	32	42	35	44	51	41	48		
	pop	222,583	226,791	232,677	237,341	242,055	246,379	252,525	257,939	263,455	268,329		
	rate	18.4	16.3	10.7	13.5	17.4	14.2	17.4	19.8	15.6	17.9	No significant change	
Latinx females	count	7	10	8	4	5	9	4	8	8	4		
	pop	215,289	219,911	225,559	230,249	234,659	238,793	244,403	249,516	255,022	259,876		
	rate	3.3	4.5	3.5	1.7	2.1	3.8	1.6	3.2	3.1	1.5	No significant change	
White overall	count	232	223	237	205	228	211	231	240	221	215		
	pop	7,660,282	7,643,531	7,633,354	7,628,377	7,622,772	7,605,701	7,597,588	7,595,398	7,586,333	7,571,102		
	rate	3.0	2.9	3.1	2.7	3.0	2.8	3.0	3.2	2.9	2.8	No significant change	
White males	count	208	193	207	173	200	181	196	207	180	181		
	pop	3,772,977	3,765,959	3,763,742	3,763,279	3,762,626	3,756,784	3,754,284	3,755,113	3,751,345	3,744,787		
	rate	5.5	5.1	5.5	4.6	5.3	4.8	5.2	5.5	4.8	4.8	No significant change	
White females	count	24	30	30	32	28	30	35	33	41	34		
	pop	3,887,305	3,877,572	3,869,612	3,865,098	3,860,146	3,848,917	3,843,304	3,840,285	3,834,988	3,826,315		
	rate	0.6	0.8	0.8	0.8	0.7	0.8	0.9	0.9	1.1	0.9	+3.9%	(0.0%, 8.0%)

Race by sex at birth continued on next page

¹Transgender persons are also included in the sex at birth categories. Sex at birth is used in Trends in order to calculate rates as gender census data are not available. ²Latinx persons may be of any race. Black/AA, Latinx, White, & Multi/Other are mutually exclusive categories. Persons with unknown race are not included: 2 in 2010, 1 in 2014, & 1 in 2016.

	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Race by sex at birth , continued from previous page												
Multi/other overall	count	20	27	38	27	36	27	37	21	30	14	
	pop	330,229	341,501	353,554	366,515	379,214	390,360	403,929	416,206	423,982	430,705	
	rate	6.1	7.9	10.7	7.4	9.5	6.9	9.2	5.0	7.1	3.3	No significant change
Multi/other males	count	14	21	31	23	28	24	30	18	25	11	
	pop	160,608	166,120	172,135	178,545	185,069	190,945	198,339	204,949	209,137	212,634	
	rate	8.7	12.6	18.0	12.9	15.1	12.6	15.1	8.8	12.0	5.2	No significant change
Multi/other females	count	6	6	7	4	8	3	7	3	5	3	
	pop	169,621	175,381	181,419	187,970	194,145	199,415	205,590	211,257	214,845	218,071	
	rate	3.5	3.4	3.9	2.1	4.1	1.5	3.4	1.4	2.3	1.4	No significant change

Ethnicity and country of birth

Arab/Mid E descent ¹	count	11	9	1	11	3	4	6	5	7	9	
	MI %	1.4%	1.2%	0.1%	1.5%	0.4%	0.6%	0.8%	0.7%	1.0%	1.4%	No significant change
Foreign born ²	count	33	35	40	40	43	47	49	38	29	35	
	MI %	4.3%	4.5%	5.0%	5.4%	5.5%	6.5%	6.7%	4.9%	4.1%	5.3%	No significant change

Age (yrs) at HIV diagnosis

00-14	count	5	5	3	0	3	2	1	2	2	0	
	pop	1,901,882	1,879,395	1,859,304	1,842,312	1,826,583	1,807,209	1,794,412	1,787,145	1,776,315	1,763,131	
	rate	0.3	0.3	0.2	0.0	0.2	0.1	0.1	0.1	0.1	0.0	-16.8% (-28.7%, -2.8%)
15-19	count	55	66	64	57	44	36	55	49	41	43	
	pop	734,599	716,557	701,632	689,286	679,071	673,114	669,291	661,715	652,435	644,559	
	rate	7.5	9.2	9.1	8.3	6.5	5.3	8.2	7.4	6.3	6.7	-3.0% (-5.9%, 0.0%)
20-29	count	265	288	329	292	340	316	314	333	300	268	
	pop	1,262,746	1,285,946	1,309,208	1,329,368	1,349,668	1,360,676	1,372,454	1,384,161	1,386,358	1,379,577	
	rate	21.0	22.4	25.1	22.0	25.2	23.2	22.9	24.1	21.6	19.4	No significant change
30-39	count	177	161	152	142	160	140	141	158	165	179	
	pop	1,181,116	1,161,017	1,154,631	1,156,973	1,161,018	1,166,821	1,179,096	1,188,917	1,200,013	1,213,131	
	rate	15.0	13.9	13.2	12.3	13.8	12.0	12.0	13.3	13.7	14.8	No significant change
40-49	count	147	146	138	133	122	121	105	114	89	90	
	pop	1,404,275	1,380,288	1,351,238	1,316,871	1,280,426	1,249,211	1,224,156	1,206,384	1,192,732	1,179,375	
	rate	10.5	10.6	10.2	10.1	9.5	9.7	8.6	9.4	7.5	7.6	-3.5% (-5.4%, -1.6%)
50-59	count	88	75	82	85	88	85	95	89	74	58	
	pop	1,451,403	1,463,623	1,469,342	1,471,236	1,468,206	1,454,240	1,433,046	1,405,702	1,376,319	1,350,299	
	rate	6.1	5.1	5.6	5.8	6.0	5.8	6.6	6.3	5.4	4.3	No significant change
60+	count	26	30	25	37	25	24	25	24	37	27	
	pop	1,941,489	1,995,586	2,051,790	2,107,019	2,164,876	2,220,444	2,278,116	2,339,090	2,399,900	2,456,785	
	rate	1.3	1.5	1.2	1.8	1.2	1.1	1.1	1.0	1.5	1.1	No significant change

¹Persons of Arab/Middle Eastern descent may be of any race and are not excluded from the race categories. ²Foreign born persons include those diagnosed with HIV while living in Michigan.

Measure		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
HIV transmission risk by gender¹												
Sex w men	count	532	550	564	502	597	511	545	571	505	458	
	MI %	69.7%	71.3%	71.1%	67.3%	76.3%	70.6%	74.0%	74.3%	71.3%	68.9%	No significant change
Cis men	count	415	430	447	407	466	413	437	444	375	357	
	MI %	54.4%	55.8%	56.4%	54.6%	59.6%	57.0%	59.4%	57.7%	53.0%	53.7%	No significant change
Cis women	count	107	107	100	85	114	88	89	112	115	85	
	MI %	14.0%	13.9%	12.6%	11.4%	14.6%	12.2%	12.1%	14.6%	16.2%	12.8%	No significant change
Trans-gender	count	10	13	17	10	17	10	19	15	15	14	
	MI %	1.3%	1.7%	2.1%	1.3%	2.2%	1.4%	2.6%	2.0%	2.1%	2.1%	No significant change
PWID	count	34	28	28	34	17	25	25	31	39	22	
	MI %	4.5%	3.6%	3.5%	4.6%	2.2%	3.5%	3.4%	4.0%	5.5%	3.3%	No significant change
Cis men	count	14	17	16	16	12	12	12	11	24	13	
	MI %	1.8%	2.2%	2.0%	2.1%	1.5%	1.7%	1.6%	1.4%	3.4%	2.0%	No significant change
Cis women	count	20	11	12	18	5	13	13	20	15	9	
	MI %	2.6%	1.4%	1.5%	2.4%	0.6%	1.8%	1.8%	2.6%	2.1%	1.4%	No significant change
Trans-gender	count	0	0	0	0	0	0	0	0	0	0	
	MI %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Sex w men/PWID	count	11	17	14	15	15	16	26	22	18	16	
	MI %	1.4%	2.2%	1.8%	2.0%	1.9%	2.2%	3.5%	2.9%	2.5%	2.4%	+6.0% (0.6%, 11.8%)
Cis men	count	9	17	12	12	14	16	26	22	16	14	
	MI %	1.2%	2.2%	1.5%	1.6%	1.8%	2.2%	3.5%	2.9%	2.3%	2.1%	+6.7% (0.9%, 12.7%)
Trans-gender	count	2	0	2	3	1	0	0	0	2	2	
	MI %	0.3%	0.0%	0.3%	0.4%	0.1%	0.0%	0.0%	0.0%	0.3%	0.3%	No significant change
Sex w women	count	34	31	31	45	30	36	32	37	25	24	
	MI %	4.5%	4.0%	3.9%	6.0%	3.8%	5.0%	4.3%	4.8%	3.5%	3.6%	No significant change
Cis men	count	34	31	31	45	30	36	32	37	25	24	
	MI %	4.5%	4.0%	3.9%	6.0%	3.8%	5.0%	4.3%	4.8%	3.5%	3.6%	No significant change
Trans-gender	count	0	0	0	0	0	0	0	0	0	0	
	MI %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Other risk	count	2	4	2	0	3	0	1	1	2	0	
	MI %	0.3%	0.5%	0.3%	0.0%	0.4%	0.0%	0.1%	0.1%	0.3%	0.0%	No significant change
Cis men	count	1	3	1	0	2	0	0	0	1	0	
	MI %	0.1%	0.4%	0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	0.1%	0.0%	No significant change
Cis women	count	1	1	1	0	1	0	1	1	1	0	
	MI %	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%	0.1%	0.1%	0.1%	0.0%	No significant change
Trans-gender	count	0	0	0	0	0	0	0	0	0	0	
	MI %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Unknown risk	count	150	141	154	150	120	136	107	107	119	145	
	MI %	19.7%	18.3%	19.4%	20.1%	15.3%	18.8%	14.5%	13.9%	16.8%	21.8%	No significant change

¹Risk/Gender Notes: PWID (persons who inject drugs). Persons included under "Sex w women" have no reported risk other than sex with a woman living with HIV, or a woman at high risk for HIV. Nearly all with "Other risk" are perinatal or pediatric cases.

	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Special populations												
Men who have sex with men (MSM) including MSM/PWID (persons who inject drugs)												
MSM	count	424	447	459	419	480	429	463	466	391	371	
	est pop	281,020	281,198	281,814	282,397	283,042	283,295	284,004	284,779	285,140	285,275	
	rate	150.9	159.0	162.9	148.4	169.6	151.4	163.0	163.6	137.1	130.1	No significant change
15-29 yr old	count	155	191	190	197	192	185	194	181	162	148	
Black/AA MSM (YBMSM)	est pop	9,941	10,032	10,122	10,194	10,277	10,351	10,385	10,361	10,283	10,171	
	rate	1,559.2	1,903.8	1,877.0	1,932.4	1,868.3	1,787.3	1,868.0	1,746.9	1,575.5	1,455.2	No significant change
Persons who inject drugs (PWID) including MSM/PWID												
PWID	count	45	45	42	49	32	41	51	53	57	38	
	MI %	5.9%	5.8%	5.3%	6.6%	4.1%	5.7%	6.9%	6.9%	8.1%	5.7%	No significant change
15-29 yr old	count	11	9	9	19	15	13	16	24	18	13	
PWID	MI %	1.4%	1.2%	1.1%	2.6%	1.9%	1.8%	2.2%	3.1%	2.5%	2.0%	+7.7% (1.7%, 14.0%)
Young (15-29) Black/AA men compared to others												
15-29 yr old	count	184	211	224	234	221	217	221	223	192	182	
Black/AA men (YBM)	pop	171,396	172,973	174,525	175,766	177,182	178,465	179,056	178,646	177,287	175,355	No significant change
	rate	107.4	122.0	128.3	133.1	124.7	121.6	123.4	124.8	108.3	103.8	Declining since 2013
Other youth 15-29	count	136	143	169	115	163	135	148	159	149	129	
	pop	1,825,949	1,829,530	1,836,315	1,842,888	1,851,557	1,855,325	1,862,689	1,867,230	1,861,506	1,848,781	
	rate	7.4	7.8	9.2	6.2	8.8	7.3	7.9	8.5	8.0	7.0	No significant change
30+ yrs old	count	438	412	397	397	395	370	366	385	365	354	
	pop	5,978,283	6,000,514	6,027,001	6,052,099	6,074,526	6,090,716	6,114,414	6,140,093	6,168,964	6,199,590	
	rate	7.3	6.9	6.6	6.6	6.5	6.1	6.0	6.3	5.9	5.7	-2.3% (-3.4%, -1.3%)

Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)	
Previously tested negative for HIV. This measure is derived mostly from self report at time of diagnosis. Ideally the proportion of newly diagnosed individuals who tested negative within the preceding 2 years will increase. Recent negative tests can indicate persons at high risk for HIV may be testing routinely.												
Ever tested	count	397	419	438	367	478	398	451	492	412	378	
HIV negative	MI %	52.0%	54.3%	55.2%	49.2%	61.1%	55.0%	61.3%	64.0%	58.2%	56.8%	+1.6% (0.2%, 3.0%)
Negative test w/in 2yrs of diagnosis												
	count	275	308	339	263	353	315	320	341	249	259	
	MI %	36.0%	39.9%	42.7%	35.3%	45.1%	43.5%	43.5%	44.3%	35.2%	38.9%	No significant change

The significant rise of newly diagnosed persons ever having a negative HIV result in their lifetime is primarily due to the rise among Detroit LHD residents - the increase was not observed in any other moderate to high morbidity LHD jurisdiction. Negative testing within two years preceding diagnosis increased among Detroit LHD residents as well. Significant increases of ever testing negative were observed among Black/AA persons and persons over 30. Unfortunately, no increases were observed among the group at highest risk - young (15-29 yr old) Black/AA men.

HIV Stage at diagnosis. This measure indicates recency of HIV infection. Early diagnoses include persons who were diagnosed within 180 days of infection (acute and Stage 0, available after 2014). Late diagnoses include persons who progressed to Stage 3 within 90 days of initial diagnosis. Early diagnoses improve patient prognosis and reduce transmission risk. Ideally, early diagnoses will increase while late diagnoses decrease.

Early diagnosis	count					142	155	173	120	121		
	MI %					19.6%	21.1%	22.5%	16.9%	18.2%	No significant change	
Late diagnosis	count	211	184	171	203	171	149	167	146	163	147	
	MI %	27.7%	23.9%	21.6%	27.2%	21.9%	20.6%	22.7%	19.0%	23.0%	22.1%	-2.2% (-4.1%, -0.2%)

The decrease in late diagnoses was driven by the Detroit LHD jurisdiction. This significant decrease was not observed in other moderate to high morbidity LHD areas.

Facility of diagnosis. The proportion of persons newly diagnosed at community based organizations (CBOs) was stable. Diagnoses at blood/plasma centers, ER's, and outpatient care facilities significantly increased while the proportion diagnosed at correctional facilities, ID/HIV clinics, inpatient facilities, insurance screenings, and LHD's significantly decreased. Not all facility types are displayed below.

Blood/Plasma center	count	27	34	36	33	25	23	36	47	50	57	
	MI %	3.5%	4.4%	4.5%	4.4%	3.2%	3.2%	4.9%	6.1%	7.1%	8.6%	+8.9% (4.3%, 13.7%)
CBO	count	71	85	119	81	89	84	71	96	49	60	
	MI %	9.3%	11.0%	15.0%	10.9%	11.4%	11.6%	9.6%	12.5%	6.9%	9.0%	No significant change
ER	count	54	46	53	40	40	52	55	57	53	57	
	MI %	7.1%	6.0%	6.7%	5.4%	5.1%	7.2%	7.5%	7.4%	7.5%	8.6%	+3.2% (0.1%, 6.4%)
Local Health Department	count	146	141	122	132	131	107	121	112	83	115	
	MI %	19.1%	18.3%	15.4%	17.7%	16.8%	14.8%	16.4%	14.6%	11.7%	17.3%	-2.70% (-4.7%, -0.7%)

Linkage to Care. Persons who receive a CD4, viral load, and/or genotype lab test are considered linked to care. Early linkage improves prognosis and reduces transmission risk. Ideally, both linkage measures will increase. Time between diagnosis and first virally suppressed (VS) lab is also presented, as this gives more context to the linkage goal. Early viral suppression indicate an individual has been linked, and was also retained in care early on.

8-30 day linkage	count	344	298	324	307	340	326	347	380	356	327	
	MI %	45.1%	38.7%	40.9%	41.2%	43.5%	45.0%	47.1%	49.4%	50.3%	49.2%	+2.5% (1.3%, 3.7%)
8-90 day linkage	count	554	551	577	541	584	552	585	647	565	552	
	MI %	72.6%	71.5%	72.8%	72.5%	74.7%	76.2%	79.5%	84.1%	79.8%	83.0%	+1.9% (0.9%, 2.8%)
VS in 6mo of diagnosis	count	201	195	281	271	369	391	445	526	478	497	
	MI %	26.3%	25.3%	35.4%	36.3%	47.2%	54.0%	60.5%	68.4%	67.5%	74.7%	+13.5% (11.4%, 15.5%)
VS in 12mo of diagnosis	count	343	349	422	409	522	525	547	613	558	546	
	MI %	45.0%	45.3%	53.2%	54.8%	66.8%	72.5%	74.3%	79.7%	78.8%	82.1%	+7.6% (6.2%, 9.1%)

Detroit LHD, Kent and Oakland Counties have made huge strides in linking earlier with significant improvements in 30 day linkage. Detroit LHD has also significantly improved 90 days linkage. VS indicators have improved across the majority of geographic and demographic groups statewide.



The Detroit Metro Area, 2010 - 2019

Persons living in the Detroit Metro Area (DMA) at time of HIV diagnosis
(DMA: Lapeer, Macomb, Monroe, Oakland, St. Clair, & Wayne Counties).

Includes persons in prisons located in the DMA

New DMA HIV diagnoses 2010 - 2019: Geographic Stratification (last reported address each year)

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
DMA ¹	count	539	523	548	498	521	481	498	512	477	430	
	pop	4,262,375	4,261,149	4,268,885	4,271,521	4,275,514	4,271,855	4,276,872	4,281,173	4,281,068	4,278,134	
	rate	12.6	12.3	12.8	11.7	12.2	11.3	11.6	12.0	11.1	10.1	-1.90% (-2.8%, -0.9%)
DMA Prison ²	count	0	1	0	0	1	1	2	5	1	0	
	DMA %	0.0%	0.2%	0.0%	0.0%	0.2%	0.2%	0.4%	1.0%	0.2%	0.0%	No significant change
Local Health Department (LHD) Jurisdiction												
Detroit LHD ³	count	294	294	286	265	263	248	267	240	236	208	
	pop	852,105	829,976	812,311	796,613	784,791	779,098	771,883	768,073	765,192	765,192	
	rate	34.5	35.4	35.2	33.3	33.5	31.8	34.6	31.2	30.8	27.2	-2.1% (-3.4%, -0.8%)
Lapeer Co.	count	4	2	1	1	0	1	3	3	4	2	
	pop	88,210	88,094	88,195	88,291	88,194	88,368	88,171	88,122	87,921	87,607	
	rate	4.5	2.3	1.1	1.1	0	1.1	3.4	3.4	4.5	2.3	No significant change
Macomb Co.	count	47	51	59	53	50	62	54	70	76	55	
	pop	841,352	844,146	849,734	857,110	862,876	864,960	868,534	871,364	872,795	873,972	
	rate	5.6	6	6.9	6.2	5.8	7.2	6.2	8	8.7	6.3	+2.9% (0.0%, 5.9%)
Monroe Co.	count	5	5	6	3	4	6	3	4	9	4	
	pop	151,936	151,496	150,804	150,139	149,847	149,353	149,159	149,449	150,174	150,500	
	rate	3.3	3.3	4	2	2.7	4	2	2.7	6	2.7	No significant change
Oakland Co.	count	104	108	108	101	103	84	90	103	82	77	
	pop	1,203,106	1,212,643	1,223,598	1,235,468	1,242,853	1,244,602	1,251,027	1,256,016	1,256,694	1,257,584	
	rate	8.6	8.9	8.8	8.2	8.3	6.7	7.2	8.2	6.5	6.1	-3.60% (-5.7%, -1.5%)
St. Clair Co.	count	9	5	4	5	1	6	9	4	5	7	
	pop	162,690	161,581	160,625	160,288	160,065	159,700	159,369	159,005	159,031	159,128	
	rate	5.5	3.1	2.5	3.1	0.6	3.8	5.6	2.5	3.1	4.4	No significant change
Wayne Co. (excl Detroit LHD)	count	76	58	84	70	100	74	72	88	65	77	
	pop	962,976	973,213	983,618	983,612	986,888	985,774	988,729	989,144	989,261	984,151	
	rate	7.9	6.0	8.5	7.1	10.1	7.5	7.3	8.9	6.6	7.8	No significant change
Select cities: cities with at least 50 new HIV diagnoses over the 10 year period.												
Canton	count	8	6	5	5	5	7	3	5	5	7	
	pop	89,983	89,596	89,587	89,451	90,015	90,217	90,897	91,914	92,955	93,704	
	rate	8.9	6.7	5.6	5.6	5.6	7.8	3.3	5.4	5.4	7.5	No significant change
Dearborn	count	7	4	7	8	6	3	7	3	4	9	
	pop	97,849	97,173	96,878	96,065	95,973	95,488	95,052	94,708	94,379	93,932	
	rate	7.2	4.1	7.2	8.3	6.3	3.1	7.4	3.2	4.2	9.6	No significant change
Detroit	count	280	281	272	254	252	237	253	228	224	197	
	pop	711,131	705,118	700,183	691,868	682,609	679,410	677,143	674,631	672,977	670,031	
	rate	39.4	39.9	38.8	36.7	36.9	34.9	37.4	33.8	33.3	29.4	-2.7% (-4.0%, -1.3%)

¹Detroit Metro Area (DMA) includes Lapeer, Macomb, Monroe, Oakland, St. Clair, and Wayne Counties. Prisons are excluded. ²Persons in prisons (state or federal) located in the DMA. Reported separately for geographic stratification, included in demographic strata. ³Detroit LHD includes the cities of Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes. Detroit, under "select cities", includes only residents of the city of Detroit.

New DMA HIV diagnoses 2010 - 2019: Geographic Stratification (last reported address each year)

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Select cities: cities with at least 50 new HIV diagnoses over the 10 year period.												
Eastpointe	count	5	8	4	9	10	3	2	6	15	10	
	pop	32,404	32,404	32,511	32,671	32,738	32,609	32,629	32,515	32,279	32,081	
	rate	15.4	24.7	12.3	27.5	30.5	9.2	6.1	18.5	46.5	31.2	No significant change
Ferndale	count	11	10	14	8	10	3	6	5	3	3	
	pop	19,901	20,036	20,175	20,296	20,316	20,227	20,213	20,166	20,041	20,033	
	rate	55.3	49.9	69.4	39.4	49.2	14.8	29.7	24.8	15.0	15.0	-14.4% (-21.4%, -6.8%)
Highland Park	count	12	7	6	6	4	6	10	7	8	5	
	pop	11,672	11,392	11,137	11,046	11,024	10,966	10,913	10,866	10,813	10,775	
	rate	102.8	61.4	53.9	54.3	36.3	54.7	91.6	64.4	74.0	46.4	No significant change
Inkster	count	13	4	9	9	9	6	8	9	4	10	
	pop	25,306	25,168	25,101	24,871	24,856	24,729	24,618	24,519	24,406	24,284	
	rate	51.4	15.9	35.9	36.2	36.2	24.3	32.5	36.7	16.4	41.2	No significant change
Pontiac	count	19	21	14	15	14	10	13	23	13	16	
	pop	59,687	59,913	60,299	60,448	60,466	60,260	60,224	60,123	59,741	59,438	
	rate	31.8	35.1	23.2	24.8	23.2	16.6	21.6	38.3	21.8	26.9	No significant change
Redford	count	7	5	5	9	5	5	4	5	3	5	
	pop	48,177	47,900	47,863	47,502	47,556	47,415	47,264	47,100	46,921	46,674	
	rate	14.5	10.4	10.4	18.9	10.5	10.5	8.5	10.6	6.4	10.7	No significant change
Royal Oak	count	10	7	12	7	6	8	5	8	5	4	
	pop	59,680	60,138	60,579	61,018	61,230	61,206	61,680	61,821	61,788	61,695	
	rate	16.8	11.6	19.8	11.5	9.8	13.1	8.1	12.9	8.1	6.5	-7.9% (-15.1%, -0.0%)
Southfield	count	14	21	16	21	16	18	16	17	13	12	
	pop	86,315	86,897	87,454	88,079	88,336	88,237	88,331	88,252	87,782	87,448	
	rate	16.2	24.2	18.3	23.8	18.1	20.4	18.1	19.3	14.8	13.7	No significant change
Sterling Heights	count	5	3	7	4	5	10	0	11	11	5	
	pop	129,709	130,042	130,672	131,521	132,136	132,041	132,522	132,681	132,725	132,438	
	rate	3.9	2.3	5.4	3	3.8	7.6	0	8.3	8.3	3.8	No significant change
Taylor	count	3	3	5	4	8	10	7	9	6	6	
	pop	62,982	62,631	62,465	61,957	62,068	61,777	61,580	61,404	61,163	60,922	
	rate	4.8	4.8	8	6.5	12.9	16.2	11.4	14.7	9.8	9.8	+8.6% (-0.6%, 18.7%)
Warren	count	15	16	14	15	11	18	11	19	16	10	
	pop	134,081	134,173	134,590	135,312	135,666	135,386	135,245	135,100	134,376	133,943	
	rate	11.2	11.9	10.4	11.1	8.1	13.3	8.1	14.1	11.9	7.5	No significant change
Westland	count	3	6	9	10	18	9	5	11	8	10	
	pop	83,959	83,518	83,334	82,659	82,628	82,321	82,115	81,940	81,752	81,511	
	rate	3.6	7.2	10.8	12.1	21.8	10.9	6.1	13.4	9.8	12.3	No significant change

	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)	
Sex at birth													
Male	count	426	416	435	418	423	391	428	415	392	361		
	pop	2,064,144	2,063,420	2,068,381	2,070,791	2,074,618	2,074,245	2,078,880	2,082,930	2,083,501	2,082,678		
	rate	20.6	20.2	21.0	20.2	20.4	18.9	20.6	19.9	18.8	17.3	-1.4%	(-2.4%, -0.3%)
Female	count	113	108	113	80	99	91	72	102	86	69		
	pop	2,198,231	2,197,729	2,200,504	2,200,730	2,200,896	2,197,610	2,197,992	2,198,243	2,197,567	2,195,456		
	rate	5.1	4.9	5.1	3.6	4.5	4.1	3.3	4.6	3.9	3.1	-4.5%	(-6.4%, -1.6%)
Trans-gender ¹	count	11	12	17	9	13	10	15	11	10	14		
	DMA %	2.0%	2.3%	3.1%	1.8%	2.5%	2.1%	3.0%	2.2%	2.1%	3.3%	No significant change	
Race by sex at birth²													
Black/AA overall	count	371	373	375	358	371	335	322	345	323	284		
	pop	1,001,978	1,001,119	999,566	995,795	993,718	991,496	990,898	990,944	990,647	991,169		
	rate	37.0	37.3	37.5	36.0	37.3	33.8	32.5	34.8	32.6	28.7	-2.3%	(-3.5%, -1.2)
Black/AA males	count	280	290	289	297	292	269	274	269	261	233		
	pop	462,454	461,635	460,827	458,770	457,872	456,632	456,598	456,299	455,956	455,855		
	rate	60.5	62.8	62.7	64.7	63.8	58.9	60.0	59.0	57.2	51.1	-1.6%	(-2.9%, -0.3%)
Black/AA females	count	91	83	86	61	79	66	48	76	62	51		
	pop	539,524	539,484	538,739	537,025	535,846	534,864	534,300	534,645	534,691	535,314		
	rate	16.9	15.4	16.0	11.4	14.7	12.3	9.0	14.2	11.6	9.5	-5.0%	(-7.7%, -2.3%)
Latinx overall	count	28	27	15	15	18	31	25	29	24	24		
	pop	169,394	171,838	176,412	179,123	182,206	185,386	189,945	193,765	197,969	201,424		
	rate	16.5	15.7	8.5	8.4	9.9	16.7	13.2	15.0	12.1	11.9	No significant change	
Latinx males	count	24	20	9	14	17	24	24	23	21	24		
	pop	85,622	86,602	88,848	90,198	91,747	93,438	95,855	97,956	100,064	101,736		
	rate	28	23	10	16	19	26	25	24	21	24	No significant change	
Latinx females	count	4	7	6	1	1	7	1	6	3	0		
	pop	83,772	85,236	87,564	88,925	90,459	91,948	94,090	95,809	97,905	99,688		
	rate	4.8	8.2	6.9	1.1	1.1	7.6	1.1	6.3	3.1	0.0	No significant change	
White overall	count	125	116	134	113	114	103	134	132	113	113		
	pop	2,919,770	2,911,143	2,908,522	2,904,359	2,899,360	2,887,739	2,879,601	2,871,765	2,861,849	2,850,290		
	rate	4	4	5	4	4	4	5	5	4	4	No significant change	
White males	count	113	99	116	95	100	87	112	114	95	96		
	pop	1,432,466	1,428,741	1,428,662	1,427,821	1,426,797	1,422,260	1,419,343	1,417,024	1,412,575	1,407,683		
	rate	7.9	6.9	8.1	6.7	7.0	6.1	7.9	8.0	6.7	6.8	No significant change	
White females	count	12	17	18	18	14	16	22	18	18	17		
	pop	1,487,304	1,482,402	1,479,860	1,476,538	1,472,563	1,465,479	1,460,258	1,454,741	1,449,274	1,442,607		
	rate	0.8	1.1	1.2	1.2	1.0	1.1	1.5	1.2	1.2	1.2	No significant change	

Race by sex at birth continued on next page

¹Transgender persons are also included in the sex at birth categories. Sex at birth is used in Trends in order to calculate rates as gender census data are not available. ²Latinx persons may be of any race. Black/AA,

New DMA HIV diagnoses 2010 - 2019: Demographic Stratification

	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Race by sex at birth , continued from previous page												
Multi/other overall	count	13	8	24	12	18	13	18	11	18	9	
	pop	171,233	177,049	184,385	192,244	200,230	207,234	216,428	224,699	230,603	235,251	
	rate	7.6	4.5	13.0	6.2	9.0	6.3	8.3	4.9	7.8	3.8	No significant change
Multi/other males	count	8	7	21	12	13	11	17	9	15	8	
	pop	83,602	86,442	90,044	94,002	98,202	101,915	107,084	111,651	114,906	117,404	
	rate	9.6	8.1	23.3	12.8	13.2	10.8	15.9	8.1	13.1	6.8	No significant change
Multi/other females	count	5	1	3	0	5	2	1	2	3	1	
	pop	87,631	90,607	94,341	98,242	102,028	105,319	109,344	113,048	115,697	117,847	
	rate	5.7	1.1	3.2	0.0	4.9	1.9	0.9	1.8	2.6	0.8	No significant change

Ethnicity and country of birth

Arab/Mid E descent ¹	count	10	8	1	11	3	3	4	5	7	8	
	DMA %	1.9%	1.5%	0.2%	2.2%	0.6%	0.6%	0.8%	1.0%	1.5%	1.9%	No significant change
Foreign born ²	count	17	11	18	19	18	22	19	21	10	13	
	DMA %	3.2%	2.1%	3.3%	3.8%	3.5%	4.6%	3.8%	4.1%	2.1%	3.0%	No significant change

Age (yrs) at HIV diagnosis

00-14	count	4	2	1	0	1	2	1	1	2	0	
	pop	834,444	823,782	815,730	808,074	800,646	791,494	785,253	780,645	775,299	769,266	
	rate	0.5	0.2	0.1	0.0	0.1	0.3	0.1	0.1	0.3	0.0	No significant change
15-19	count	41	48	48	44	25	27	38	34	34	34	
	pop	309,857	299,954	292,163	285,395	279,367	275,245	272,963	269,120	265,157	262,004	
	rate	13.2	16.0	16.4	15.4	8.9	9.8	13.9	12.6	12.8	13.0	No significant change
20-29	count	183	200	223	202	242	222	210	220	213	176	
	pop	507,535	518,920	531,756	543,282	554,718	561,314	567,562	572,776	574,010	570,677	
	rate	36.1	38.5	41.9	37.2	43.6	39.6	37.0	38.4	37.1	30.8	No significant change
30-39	count	133	98	99	93	105	86	91	104	108	122	
	pop	533,378	520,739	514,719	512,088	510,773	510,886	516,202	520,450	525,536	532,715	
	rate	24.9	18.8	19.2	18.2	20.6	16.8	17.6	20.0	20.6	22.9	No significant change
40-49	count	96	94	98	79	79	77	72	85	55	51	
	pop	632,716	625,052	615,545	601,646	586,517	572,011	558,563	548,223	539,683	530,805	
	rate	15.2	15.0	15.9	13.1	13.5	13.5	12.9	15.5	10.2	9.6	-3.8% (-6.1%, -1.4%)
50-59	count	64	56	57	57	58	54	71	55	43	37	
	pop	632,407	639,076	643,198	644,667	644,618	639,547	631,516	620,684	608,184	597,211	
	rate	10.1	8.8	8.9	8.8	9.0	8.4	11.2	8.9	7.1	6.2	-2.7% (-5.5%, -0.2%)
60+	count	18	26	22	23	12	14	17	18	23	10	
	pop	812,038	833,626	855,774	876,369	898,875	921,358	944,813	969,275	993,199	1,015,456	
	rate	2.2	3.1	2.6	2.6	1.3	1.5	1.8	1.9	2.3	1.0	-6.6% (-1.1%, -1.5%)

¹Persons of Arab/Middle Eastern descent may be of any race and are not excluded from the race categories. ²Foreign born persons include those diagnosed with HIV while living in the DMA.

Measure		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
HIV transmission risk by gender¹												
Sex w men	count	373	377	383	345	407	341	375	380	342	290	
	DMA %	69.2%	72.1%	69.9%	69.3%	78.1%	70.9%	75.3%	74.2%	71.7%	67.4%	No significant change
Cis men	count	285	295	295	280	316	270	304	290	262	224	
	DMA %	52.9%	56.4%	53.8%	56.2%	60.7%	56.1%	61.0%	56.6%	54.9%	52.1%	No significant change
Cis women	count	81	70	74	58	79	61	57	80	71	53	
	DMA %	15.0%	13.4%	13.5%	11.6%	15.2%	12.7%	11.4%	15.6%	14.9%	12.3%	No significant change
Trans-gender	count	7	12	14	7	12	10	14	10	9	13	
	DMA %	1.3%	2.3%	2.6%	1.4%	2.3%	2.1%	2.8%	2.0%	1.9%	3.0%	No significant change
PWID	count	28	21	22	17	9	18	13	21	25	15	
	DMA %	5.2%	4.0%	4.0%	3.4%	1.7%	3.7%	2.6%	4.1%	5.2%	3.5%	No significant change
Cis men	count	10	13	13	8	6	7	4	6	17	9	
	DMA %	1.9%	2.5%	2.4%	1.6%	1.2%	1.5%	0.8%	1.2%	3.6%	2.1%	No significant change
Cis women	count	18	8	9	9	3	11	9	15	8	6	
	DMA %	3.3%	1.5%	1.6%	1.8%	0.6%	2.3%	1.8%	2.9%	1.7%	1.4%	No significant change
Trans-gender	count	0	0	0	0	0	0	0	0	0	0	
	DMA %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Sex w men/PWID	count	8	11	13	8	10	8	16	12	10	5	
	DMA %	1.5%	2.1%	2.4%	1.6%	1.9%	1.7%	3.2%	2.3%	2.1%	1.2%	No significant change
Cis men	count	6	11	11	6	9	8	16	12	9	4	
	DMA %	1.1%	2.1%	2.0%	1.2%	1.7%	1.7%	3.2%	2.3%	1.9%	0.9%	No significant change
Trans-gender	count	2	0	2	2	1	0	0	0	1	1	
	DMA %	0.4%	0.0%	0.4%	0.4%	0.2%	0.0%	0.0%	0.0%	0.2%	0.2%	No significant change
Sex w women	count	22	17	19	27	13	25	20	24	15	12	
	DMA %	4.1%	3.3%	3.5%	5.4%	2.5%	5.2%	4.0%	4.7%	3.1%	2.8%	No significant change
Cis men	count	22	17	19	27	13	25	20	24	15	12	
	DMA %	4.1%	3.3%	3.5%	5.4%	2.5%	5.2%	4.0%	4.7%	3.1%	2.8%	No significant change
Trans-gender	count	0	0	0	0	0	0	0	0	0	0	
	DMA %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Other risk	count	2	1	1	0	1	0	1	1	2	0	
	DMA %	0.4%	0.2%	0.2%	0.0%	0.2%	0.0%	0.2%	0.2%	0.4%	0.0%	No significant change
Cis men	count	1	1	1	0	1	0	0	0	1	0	
	DMA %	0.2%	0.2%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%	0.0%	No significant change
Cis women	count	1	0	0	0	0	0	1	1	1	0	
	DMA %	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%	0.0%	No significant change
Trans-gender	count	0	0	0	0	0	0	0	0	0	0	
	DMA %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Unknown risk	count	106	97	110	101	82	90	75	79	84	108	
	DMA %	19.7%	18.5%	20.1%	20.3%	15.7%	18.7%	15.1%	15.4%	17.6%	25.1%	No significant change

¹Risk/Gender Notes: PWID (persons who inject drugs). Persons included under "Sex w women" have no reported risk other than sex with a woman living with HIV, or a woman at high risk for HIV. Nearly all with "Other risk" are perinatal or pediatric cases.

	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Special populations												
Men who have sex with men (MSM) including MSM/PWID (persons who inject drugs)												
MSM	count	291	306	306	286	325	278	320	302	271	228	
	est pop	119,720	119,678	119,966	120,106	120,328	120,306	120,575	120,810	120,843	120,795	
	rate	243.1	255.7	255.1	238.1	270.1	231.1	265.4	250.0	224.3	188.7	-1.8% (-3.5%, -0.0%)
15-29 yr old	count	120	151	136	149	152	143	150	134	135	104	
Black/AA MSM (YBMSM)	est pop	6,397	6,442	6,469	6,489	6,517	6,526	6,522	6,480	6,406	6,302	
	rate	1,875.9	2,344.1	2,102.4	2,296.1	2,332.4	2,191.3	2,299.9	2,067.9	2,107.5	1,650.2	No significant change
Persons who inject drugs (PWID) including MSM/PWID												
PWID	count	36	32	35	25	19	26	29	33	35	20	
	DMA %	6.7%	6.1%	6.4%	5.0%	3.7%	5.4%	5.8%	6.5%	7.3%	4.7%	No significant change
15-29 yr old	count	7	4	7	10	12	9	8	14	11	6	
PWID	DMA %	1.3%	0.8%	1.3%	2.0%	2.3%	1.9%	1.6%	2.7%	2.3%	1.4%	No significant change
Young (15-29) Black/AA men compared to others												
15-29 yr old	count	142	165	163	176	175	166	172	166	162	132	
Black/AA men (YBM)	pop	110,294	111,066	111,530	111,883	112,360	112,512	112,450	111,722	110,445	108,660	No significant change
	rate	128.7	148.6	146.1	157.3	155.7	147.5	153.0	148.6	146.7	121.5	Declining since 2013
Other youth 15-29	count	82	83	108	70	92	83	76	88	85	78	
	pop	707,098	707,808	712,389	716,794	721,725	724,047	728,075	730,174	728,722	724,021	
	rate	11.6	11.7	15.2	9.8	12.7	11.5	10.4	12.1	11.7	10.8	No significant change
30+ yrs old	count	311	274	276	252	254	231	251	262	229	220	
	pop	2,610,539	2,618,493	2,629,236	2,634,770	2,640,783	2,643,802	2,651,094	2,658,632	2,666,602	2,676,187	
	rate	11.9	10.5	10.5	9.6	9.6	8.7	9.5	9.9	8.6	8.2	-3.1% (-4.4%, -1.8%)

Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
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Previously tested negative for HIV. This measure is derived mostly from self report at time of diagnosis. Ideally the proportion of newly diagnosed individuals who tested negative within the preceding 2 years will increase. Recent negative tests can indicate persons at high risk for HIV may be testing routinely.

Ever tested	count	281	291	302	246	311	269	312	329	285	266	
HIV negative	DMA %	52.1%	55.6%	55.1%	49.4%	59.7%	55.9%	62.7%	64.3%	59.7%	61.9%	+2.1% (0.8%, 3.4%)
Negative test w/in 2yrs of diagnosis	count	197	213	240	179	240	220	224	235	185	183	
	DMA %	36.5%	40.7%	43.8%	35.9%	46.1%	45.7%	45.0%	45.9%	38.8%	42.6%	No significant change

The significant rise of newly diagnosed persons ever having a negative HIV result in their lifetime is primarily due to the rise among Black/AA persons, person over 30 years old, and Detroit LHD residents - the increase was not observed in any other moderate to high morbidity LHD jurisdiction or among the high risk young (15-29 yr old) Black/AA men. Negative testing within two years preceding diagnosis increased among Black/AA and white women, and Detroit LHD residents.

HIV Stage at diagnosis. This measure indicates recency of HIV infection. Early diagnoses include persons who were diagnosed within 180 days of infection (acute and Stage 0, available after 2014). Late diagnoses include persons who progressed to Stage 3 within 90 days of initial diagnosis. Early diagnoses improve patient prognosis and reduce transmission risk. Ideally, early diagnoses will increase while late diagnoses decrease.

Early diagnosis	count					102	105	119	88	90		
	DMA %					21.2%	21.1%	23.2%	18.4%	20.9%	No significant change	
Late diagnosis	count	140	128	109	119	110	94	110	87	98	91	
	DMA %	26.0%	24.5%	19.9%	23.9%	21.1%	19.5%	22.1%	17.0%	20.5%	21.2%	-2.7% (-4.7%, -0.6%)

The decrease in late diagnoses was driven by the Detroit LHD jurisdiction. This significant decrease was not observed in other moderate to high morbidity LHD areas.

Facility of diagnosis. The proportion of persons newly diagnosed at community based organizations (CBOs) was stable. Diagnoses at blood/plasma centers, and outpatient care facilities significantly increased while the proportion diagnosed at correctional facilities, ID/HIV clinics, inpatient facilities, insurance screenings, and LHD's significantly decreased. Not all facility types are displayed below.

Blood/Plasma center	count	20	19	27	26	16	14	19	28	35	35	
	DMA %	3.7%	3.6%	4.9%	5.2%	3.1%	2.9%	3.8%	5.5%	7.3%	8.1%	+7.9% (2.3%, 1.4%)
CBO	count	50	63	82	58	58	60	45	68	31	41	
	DMA %	9.3%	12.0%	15.0%	11.6%	11.1%	12.5%	9.0%	13.3%	6.5%	9.5%	No significant change
ER	count	53	44	49	35	37	42	52	54	45	51	
	DMA %	9.8%	8.4%	8.9%	7.0%	7.1%	8.7%	10.4%	10.5%	9.4%	11.9%	No significant change
Local Health Department	count	96	90	69	84	75	57	68	66	53	69	
	DMA %	17.8%	17.2%	12.6%	16.9%	14.4%	11.9%	13.7%	12.9%	11.1%	16.0%	-3.00% (-5.7%, -0.2%)

Linkage to Care. Persons who receive a CD4, viral load, and/or genotype lab test are considered linked to care. Early linkage improves prognosis and reduces transmission risk. Ideally, both linkage measures will increase. Time between diagnosis and first virally suppressed (VS) lab is also presented, as this gives more context to the linkage goal. Early viral suppression indicate an individual has been linked, and was also retained in care early on.

8-30 day linkage	count	231	185	225	195	217	200	224	247	220	198	
	DMA %	42.9%	35.4%	41.1%	39.2%	41.7%	41.6%	45.0%	48.2%	46.1%	46.0%	+2.3% (0.7%, 3.8%)
8-90 day linkage	count	378	365	384	351	367	359	382	431	373	346	
	DMA %	70.1%	69.8%	70.1%	70.5%	70.4%	74.6%	76.7%	84.2%	78.2%	80.5%	+2.0% (0.9%, 3.2%)
VS in 6mo of diagnosis	count	128	107	169	166	226	245	295	346	318	313	
	DMA %	23.7%	20.5%	30.8%	33.3%	43.4%	50.9%	59.2%	67.6%	66.7%	72.8%	+15.4% (12.8%, 18.0%)
VS in 12mo of diagnosis	count	227	214	262	269	326	340	372	406	369	346	
	DMA %	42.1%	40.9%	47.8%	54.0%	62.6%	70.7%	74.7%	79.3%	77.4%	80.5%	+8.6% (6.9%, 10.4%)

Detroit LHD and Oakland County have made huge strides in linking earlier with significant improvements in 30 day linkage. Detroit LHD has also significantly improved 90 days linkage. VS indicators have improved across the majority of geographic and demographic groups statewide.



Detroit LHD Jurisdiction, 2010 - 2019

Persons living in the Detroit Health Department's Jurisdiction at time of HIV diagnosis
(Detroit LHD: Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes).

Includes persons in prisons located in the Detroit LHD Jurisdiction

New Detroit LHD HIV diagnoses 2010 - 2019: Geographic Stratification (last reported address each year)

Region	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Detroit LHD	count	294	294	286	265	263	248	267	240	236	208	
Jurisdiction ¹	pop	852,105	829,976	812,311	796,613	784,791	779,098	771,883	768,073	765,192	765,192	
	rate	34.5	35.4	35.2	33.3	33.5	31.8	34.6	31.2	30.8	27.2	-2.1% (-3.4%, -0.8%)
Detroit LHD	count	0	0	0	0	0	0	0	0	0	0	
Prison ²	DLHD %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change

Select cities: cities with at least 50 new HIV diagnoses over the 10 year period.

Detroit	count	280	281	272	254	252	237	253	228	224	197	
	pop	711,131	705,118	700,183	691,868	682,609	679,410	677,143	674,631	672,977	670,031	
	rate	39.4	39.9	38.8	36.7	36.9	34.9	37.4	33.8	33.3	29.4	-2.7% (-4.0%, -1.3%)
Highland Park	count	12	7	6	6	4	6	10	7	8	5	
	pop	11,672	11,392	11,137	11,046	11,024	10,966	10,913	10,866	10,813	10,775	
	rate	102.8	61.4	53.9	54.3	36.3	54.7	91.6	64.4	74	46.4	No significant change

New Detroit LHD HIV diagnoses 2010 - 2019: Demographic Stratification

Sex at birth												
Male	count	219	224	216	221	213	201	225	187	191	172	
	pop	401,259	391,689	384,326	378,558	373,405	370,525	366,478	364,829	363,243	363,243	
	rate	54.6	57.2	56.2	58.4	57.0	54.2	61.4	51.3	52.6	47.4	No significant change
Female	count	75	70	70	44	51	48	43	55	46	36	
	pop	450,846	438,287	427,985	418,055	411,386	408,573	405,405	403,244	401,949	401,949	
	rate	16.6	16.0	16.4	10.5	12.4	11.7	10.6	13.6	11.4	9.0	-5.4% (-8.1%, -2.5%)
Trans-gender ³	count	9	8	11	6	4	7	9	6	5	10	
	DLHD %	3.1%	2.7%	3.9%	2.3%	1.5%	2.8%	3.4%	2.5%	2.1%	4.8%	No significant change

Race by sex at birth

Black/AA overall	count	264	256	258	243	237	227	230	216	211	186	
	pop	649,406	628,755	612,939	596,667	583,126	574,044	566,144	559,462	553,453	553,453	
	rate	40.7	40.7	42.1	40.7	40.6	39.5	40.6	38.6	38.1	33.6	-1.5% (-2.9%, -0.1)
Black/AA males	count	198	196	195	204	190	184	193	165	170	153	
	pop	300,322	291,385	283,972	277,335	271,041	266,719	262,445	259,169	256,575	256,575	
	rate	65.9	67.3	68.7	73.6	70.1	69.0	73.5	63.7	66.3	59.6	No significant change
Black/AA females	count	66	60	63	39	47	43	37	51	41	33	
	pop	349,088	337,374	328,965	319,328	312,086	307,328	303,695	300,294	296,888	296,888	
	rate	18.9	17.8	19.2	12.2	15.1	14.0	12.2	17.0	13.8	11.1	-4.4% (-7.3%, -1.3%)

Race by sex at birth continued on next page

¹Detroit LHD includes the cities of Detroit, Highland Park, Hamtramck, Harper Woods, & the Grosse Pointes. Detroit, under "select cities", includes only residents of the city of Detroit. ²Persons in prisons (state or federal) located in the Detroit LHD Jurisdiction. Reported separately for geographic stratification, included in demographic strata. ³Transgender persons are also included in the sex at birth categories. Sex at birth is used in Trends in order to calculate rates as gender census data are not available.

	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Race by sex at birth¹ (continued from previous page)												
Latinx overall	count	11	13	5	7	7	7	13	7	9	9	
	pop	50,388	50,615	50,937	51,712	52,482	54,568	52,752	53,004	52,841	52,841	
	rate	21.8	25.7	9.8	13.5	13.3	12.8	24.6	13.2	17.0	17.0	No significant change
Latinx males	count	8	8	1	7	7	5	12	6	7	9	
	pop	25,941	25,961	26,227	26,352	26,713	27,536	26,781	27,009	26,951	26,951	
	rate	30.8	30.8	3.8	26.6	26.2	18.2	44.8	22.2	26.0	33.4	No significant change
Latinx females	count	3	5	4	0	0	2	1	1	2	0	
	pop	24,447	24,654	24,710	25,360	25,769	27,032	25,971	25,995	25,890	25,890	
	rate	12.3	20.3	16.2	0.0	0.0	7.4	3.9	3.8	7.7	0.0	No significant change
White overall	count	13	18	16	13	16	11	18	16	13	11	
	pop	122,366	121,104	118,546	116,570	117,108	117,952	118,936	120,904	122,650	122,650	
	rate	10.6	14.9	13.5	11.2	13.7	9.3	15.1	13.2	10.6	9.0	No significant change
White males	count	10	13	13	8	12	9	14	14	10	8	
	pop	60,827	59,769	59,349	59,052	59,675	60,224	60,534	61,794	62,387	62,387	
	rate	16.4	21.8	21.9	13.5	20.1	14.9	23.1	22.7	16.0	12.8	No significant change
White females	count	3	5	3	5	4	2	4	2	3	3	
	pop	61,539	61,335	59,197	57,518	57,433	57,728	58,402	59,110	60,263	60,263	
	rate	4.9	8.2	5.1	8.7	7.0	3.5	6.8	3.4	5.0	5.0	No significant change
Multi/other overall	count	6	7	7	2	4	4	6	3	4	2	
	pop	29,941	29,498	29,891	31,668	32,074	32,531	34,055	34,702	36,238	36,238	
	rate	20.0	23.7	23.4	6.3	12.5	12.3	17.6	8.6	11.0	5.5	-10.7% (-19.5%, -1.0%)
Multi/other males	count	3	7	7	2	4	3	5	2	4	2	
	pop	14,169	14,574	14,778	15,819	15,976	16,046	16,718	16,857	17,330	17,330	
	rate	21.2	48.0	47.4	12.6	25.0	18.7	29.9	11.9	23.1	11.5	No significant change
Multi/other females	count	3	0	0	0	0	1	1	1	0	0	
	pop	15,772	14,924	15,113	15,849	16,098	16,485	17,337	17,845	18,908	18,908	
	rate	19.0	0.0	0.0	0.0	0.0	6.1	5.8	5.6	0.0	0.0	No significant change

Ethnicity and country of birth

Arab/Mid E descent ²	count	0	1	1	3	1	0	1	1	0	1	
	DLHD %	0.0%	0.3%	0.4%	1.1%	0.4%	0.0%	0.4%	0.4%	0.0%	0.5%	No significant change
Foreign born ³	count	3	2	7	3	4	3	5	3	0	2	
	DLHD %	1.0%	0.7%	2.4%	1.1%	1.5%	1.2%	1.9%	1.3%	0.0%	1.0%	No significant change

Age (yrs) at HIV diagnosis

City census data are not available in 10 year age groups. See following page for breakdown among those diagnosed before and after 30 years of age.

¹Latinx persons may be of any race. Black/AA, Latinx, White, & Multi/Other are mutually exclusive categories. Persons with unknown race are not included: 2 in 2010, 1 in 2014, & 1 in 2016. ²Persons of Arab/Middle Eastern descent may be of any race and are not excluded from the race categories. ³Foreign born persons include those diagnosed with HIV while living in the Detroit LHD area.

Measure		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
HIV transmission risk by gender¹												
Sex w men	count	189	203	180	180	203	174	202	180	171	144	
	DLHD %	64.3%	69.0%	62.9%	67.9%	77.2%	70.2%	75.7%	75.0%	72.5%	69.2%	No significant change
Cis men	count	131	152	128	145	161	135	157	129	125	108	
	DLHD %	44.6%	51.7%	44.8%	54.7%	61.2%	54.4%	58.8%	53.8%	53.0%	51.9%	No significant change
Cis women	count	53	43	43	30	38	32	37	45	41	26	
	DLHD %	18.0%	14.6%	15.0%	11.3%	14.4%	12.9%	13.9%	18.8%	17.4%	12.5%	No significant change
Trans-gender	count	5	8	9	5	4	7	8	6	5	10	
	DLHD %	1.7%	2.7%	3.1%	1.9%	1.5%	2.8%	3.0%	2.5%	2.1%	4.8%	No significant change
PWID	count	20	16	15	9	7	8	5	9	11	5	
	DLHD %	6.8%	5.4%	5.2%	3.4%	2.7%	3.2%	1.9%	3.8%	4.7%	2.4%	-8.9% (-15.0%, -2.3%)
Cis men	count	6	10	9	3	5	3	3	3	8	3	
	DLHD %	2.0%	3.4%	3.1%	1.1%	1.9%	1.2%	1.1%	1.3%	3.4%	1.4%	No significant change
Cis women	count	14	6	6	6	2	5	2	6	3	2	
	DLHD %	4.8%	2.0%	2.1%	2.3%	0.8%	2.0%	0.7%	2.5%	1.3%	1.0%	-12.8% (-21.2%, -3.4%)
Trans-gender	count	0	0	0	0	0	0	0	0	0	0	
	DLHD %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Sex w men/PWID	count	4	3	4	2	4	3	8	4	5	1	
	DLHD %	1.4%	1.0%	1.4%	0.8%	1.5%	1.2%	3.0%	1.7%	2.1%	0.5%	No significant change
Cis men	count	2	3	3	1	4	3	8	4	5	1	
	DLHD %	0.7%	1.0%	1.0%	0.4%	1.5%	1.2%	3.0%	1.7%	2.1%	0.5%	No significant change
Trans-gender	count	2	0	1	1	0	0	0	0	0	0	
	DLHD %	0.7%	0.0%	0.3%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Sex w women	count	11	6	7	12	5	15	13	13	3	6	
	DLHD %	3.7%	2.0%	2.4%	4.5%	1.9%	6.0%	4.9%	5.4%	1.3%	2.9%	No significant change
Cis men	count	11	6	7	12	5	15	13	13	3	6	
	DLHD %	3.7%	2.0%	2.4%	4.5%	1.9%	6.0%	4.9%	5.4%	1.3%	2.9%	No significant change
Trans-gender	count	0	0	0	0	0	0	0	0	0	0	
	DLHD %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Other risk	count	1	1	1	0	1	0	1	0	0	0	
	DLHD %	0.3%	0.3%	0.3%	0.0%	0.4%	0.0%	0.4%	0.0%	0.0%	0.0%	No significant change
Cis men	count	0	1	1	0	1	0	0	0	0	0	
	DLHD %	0.0%	0.3%	0.3%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Cis women	count	1	0	0	0	0	0	1	0	0	0	
	DLHD %	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	No significant change
Trans-gender	count	0	0	0	0	0	0	0	0	0	0	
	DLHD %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Unknown risk	count	69	65	79	62	44	49	39	36	47	52	
	DLHD %	23.5%	22.1%	27.6%	23.4%	16.7%	19.8%	14.6%	15.0%	19.9%	25.0%	No significant change

¹Risk/Gender Notes: PWID (persons who inject drugs). Persons included under "Sex w women" have no reported risk other than sex with a woman living with HIV, or a woman at high risk for HIV. Nearly all with "Other risk" are perinatal or pediatric cases.

	Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
Special populations												
Men who have sex with men (MSM) including MSM/PWID (persons who inject drugs)												
MSM	count	133	155	131	146	165	138	165	133	130	109	
	est pop	23,273	22,718	22,291	21,956	21,657	21,490	21,256	21,160	21,068	21,068	
	rate	571.5	682.3	587.7	665.0	761.9	642.1	776.3	628.5	617.0	517.4	No significant change
15-29 yr old	count	79	96	91	96	101	91	98	80	82	67	
Black/AA MSM (YBMSM)	est pop	4,119	3,985	3,926	3,843	3,755	3,685	3,694	3,603	3,572	3,572	
	rate	1,917.7	2,409.0	2,318.2	2,498.2	2,689.6	2,469.6	2,653.1	2,220.4	2,295.4	1,875.5	No significant change
Persons who inject drugs (PWID) including MSM/PWID												
PWID	count	24	19	19	11	11	11	13	13	16	6	
	DLHD %	8.2%	6.5%	6.6%	4.2%	4.2%	4.4%	4.9%	5.4%	6.8%	2.9%	-5.5% (-10.9%, 0.2%)
15-29 yr old	count	3	1	4	2	5	3	4	4	6	1	
PWID	DLHD %	1.0%	0.3%	1.4%	0.8%	1.9%	1.2%	1.5%	1.7%	2.5%	0.5%	No significant change
Young (15-29) Black/AA men compared to others												
15-29 yr old	count	97	107	112	115	118	106	113	100	104	86	
Black/AA men (YBM)	pop	71,025	68,709	67,681	66,255	64,746	63,531	63,686	62,119	61,592	61,592	No significant change
	rate	136.6	155.7	165.5	173.6	182.3	166.8	177.4	161.0	168.9	139.6	Declining since 2014
Other youth 15-29	count	40	37	42	28	32	30	27	27	37	33	
	pop	117,023	114,782	114,002	112,960	112,326	112,497	113,429	114,130	114,123	114,123	
	rate	34.2	32.2	36.8	24.8	28.5	26.7	23.8	23.7	32.4	28.9	No significant change
30+ yrs old	count	155	149	131	122	113	112	127	115	96	89	
	pop	470,722	463,311	455,037	447,412	442,044	439,495	432,412	429,937	429,008	429,008	
	rate	32.9	32.2	28.8	27.3	25.6	25.5	29.4	26.7	22.4	20.7	-4.0% (-5.9%, -2.1%)

Measure	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change (95CI)
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Previously tested negative for HIV. This measure is derived mostly from self report at time of diagnosis. Ideally the proportion of newly diagnosed individuals who tested negative within the preceding 2 years will increase. Recent negative tests can indicate persons at high risk for HIV may be testing routinely.

Ever tested	count	149	160	149	137	164	143	184	162	163	149	
HIV negative	DLHD %	50.7%	54.4%	52.1%	51.7%	62.4%	57.7%	68.9%	67.5%	69.1%	71.6%	+4.3% (2.5%, 6.1%)

Negative test w/in 2yrs of diagnosis	count	109	123	111	103	130	117	133	118	109	103	
	DLHD %	37.1%	41.8%	38.8%	38.9%	49.4%	47.2%	49.8%	49.2%	46.2%	49.5%	+3.2% (1.1%, 5.3%)

The significant rise of newly diagnosed persons ever having a negative HIV result in their lifetime is primarily due to the rise among Black/AA persons over 30 years old - the increase was not observed among the high risk young (15-29 yr old) Black/AA men. Negative testing within two years preceding diagnosis increased among Black/AA women only.

HIV Stage at diagnosis. This measure indicates recency of HIV infection. Early diagnoses include persons who were diagnosed within 180 days of infection (acute and Stage 0, available after 2014). Late diagnoses include persons who progressed to Stage 3 within 90 days of initial diagnosis. Early diagnoses improve patient prognosis and reduce transmission risk. Ideally, early diagnoses will increase while late diagnoses decrease.

Early diagnosis	count					51	63	65	58	51		
	DLHD %					20.6%	23.6%	27.1%	24.6%	24.5%	No significant change	
Late diagnosis	count	75	71	56	62	50	48	52	32	38	36	
	DLHD %	25.5%	24.1%	19.6%	23.4%	19.0%	19.4%	19.5%	13.3%	16.1%	17.3%	-5.3% (-8.1%, -2.3%)

The decrease in late diagnoses was driven by Black/AA men. This significant decrease was not observed in other demographic group.

Facility of diagnosis. The proportion of persons newly diagnosed at community based organizations (CBOs), ER's, insurance screening, and LHD's was stable. Diagnoses at blood/plasma centers significantly increased, outpatient care facilities marginally increased, inpatient diagnoses marginally decreased, and the proportion diagnosed at a correctional facility or ID/HIV clinic significantly decreased. Not all facility types are displayed below.

Blood/Plasma center	count	10	12	18	17	8	8	12	12	21	17	
	DLHD %	3.4%	4.1%	6.3%	6.4%	3.0%	3.2%	4.5%	5.0%	8.9%	8.2%	+7.3% (0.6%, 14.4%)
CBO	count	31	41	55	40	40	40	31	46	24	25	
	DLHD %	10.5%	13.9%	19.2%	15.1%	15.2%	16.1%	11.6%	19.2%	10.2%	12.0%	No significant change
ER	count	45	38	39	29	31	26	40	40	37	39	
	DLHD %	15.3%	12.9%	13.6%	10.9%	11.8%	10.5%	15.0%	16.7%	15.7%	18.8%	No significant change
Local Health Department	count	47	46	32	47	31	20	28	25	26	38	
	DLHD %	16.0%	15.6%	11.2%	17.7%	11.8%	8.1%	10.5%	10.4%	11.0%	18.3%	No significant change

Linkage to Care. Persons who receive a CD4, viral load, and/or genotype lab test are considered linked to care. Early linkage improves prognosis and reduces transmission risk. Ideally, both linkage measures will increase. Time between diagnosis and first virally suppressed (VS) lab is also presented, as this gives more context to the linkage goal. Early viral suppression indicate an individual has been linked, and was also retained in care early on.

8-30 day linkage	count	120	101	95	91	109	91	115	100	103	85	
	DLHD %	40.8%	34.4%	33.2%	34.3%	41.4%	36.7%	43.1%	41.7%	43.6%	40.9%	+2.0% (-0.2%, 4.3%)
8-90 day linkage	count	197	193	178	177	179	175	195	190	183	157	
	DLHD %	67.0%	65.6%	62.2%	66.8%	68.1%	70.6%	73.0%	79.2%	77.5%	75.5%	+2.3% (0.7%, 4.0%)
VS in 6mo of diagnosis	count	64	52	81	89	97	109	149	145	147	147	
	DLHD %	21.8%	17.7%	28.3%	33.6%	36.9%	44.0%	55.8%	60.4%	62.3%	70.7%	+15.7% (13.1%, 18.2%)
VS in 12mo of diagnosis	count	123	115	126	141	149	159	192	177	174	162	
	DLHD %	41.8%	39.1%	44.1%	53.2%	56.7%	64.1%	71.9%	73.8%	73.7%	77.9%	+8.5% (6.6%, 10.5%)

The Detroit LHD has made huge strides in linking earlier with significant improvements in 90 day linkage among Black/AA men - especially 15-29 year old Black/AA men. VS indicators have improved across the majority of geographic and demographic groups statewide.