



HIV Trends Report, New diagnoses 2012-2021

Data as of July, 2022



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www.Michigan.gov/HIVSTI



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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 $(9\% - 10\%) / 10\% = -0.1\%$.

COVID-19, 2020 diagnoses, and Trends

COVID-19 affected many aspects of HIV testing and care. The extent of the impact and recovery among different populations will help guide strategies to continue improving HIV outcomes. During 2020, new HIV diagnoses were significantly lower than expected, likely to due to an interruption of testing. Therefore, 2020 was excluded from the statistical calculations. In 2021, new diagnoses remained low, but fell within the normal limits. This Trends report was deemed worthwhile to update this year, however **interpret significantly declining trends with caution. Artificially low diagnoses in some populations during 2021 may be amplifying modest declines.**

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, 2012 - 2021

Persons living in Michigan at time of HIV diagnosis

New Michigan HIV diagnoses 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Michigan	count	792	746	782	722	737	766	710	666	518	638	
	pop	9,898,289	9,914,802	9,932,033	9,934,483	9,954,117	9,976,752	9,987,286	9,984,795	9,966,555	9,966,555	
	rate	8.0	7.5	7.9	7.3	7.4	7.7	7.1	6.7	5.2	6.4	-2.2% (-3.0%, -1.3%)
DMA ¹	count	548	498	520	481	498	510	477	427	350	411	
	pop	4,268,953	4,271,737	4,275,840	4,272,364	4,277,709	4,282,090	4,282,820	4,277,767	4,262,369	4,262,369	
	rate	12.8	11.7	12.2	11.3	11.6	11.9	11.1	10.0	8.2	9.6	-2.7% (-3.7%, -1.6%)
Outstate ²	count	235	237	254	230	229	247	219	229	165	214	
	pop	5,629,336	5,643,065	5,656,193	5,662,119	5,676,408	5,694,662	5,704,466	5,707,028	5,704,186	5,704,186	
	rate	4.2	4.2	4.5	4.1	4.0	4.3	3.8	4.0	2.9	3.8	No significant change
Prison ³	count	9	11	8	11	10	9	14	10	3	12	
	MI %	1.1%	1.5%	1.0%	1.5%	1.4%	1.2%	2.0%	1.5%	0.6%	1.9%	No significant change

Local Health Department (LHD) Jurisdiction

Allegan Co.	count	1	1	1	3	2	7	3	3	2	5	
	pop	111,506	112,020	113,361	114,122	115,018	116,393	117,137	118,045	118,927	118,927	
	rate	0.9	0.9	0.9	2.6	1.7	6.0	2.6	2.5	1.7	4.2	+16.5% (1.2%, 34.0%)
Barry-Eaton	count	2	7	9	7	5	3	5	4	2	13	
	pop	167,038	167,382	167,973	168,135	169,021	170,168	170,879	171,600	172,209	172,209	
	rate	1.2	4.2	5.4	4.2	3.0	1.8	2.9	2.3	1.2	7.5	No significant change
Berrien Co.	count	10	15	10	6	5	9	3	2	5	8	
	pop	156,669	156,205	156,074	155,136	154,451	154,264	153,892	153,352	153,025	153,025	
	rate	6.4	9.6	6.4	3.9	3.2	5.8	1.9	1.3	3.3	5.2	-10.6% (-18.8%, -1.5%)
Branch-Hillsdale-St. Joseph	count	4	3	5	2	1	2	5	2	1	4	
	pop	151,047	150,707	150,684	150,338	150,001	149,879	149,991	149,818	149,930	149,930	
	rate	2.6	2.0	3.3	1.3	0.7	1.3	3.3	1.3	0.7	2.7	No significant change
Calhoun Co.	count	6	8	8	6	6	3	9	11	5	5	
	pop	134,755	134,782	134,845	134,377	134,343	134,127	133,858	133,806	133,580	133,580	
	rate	4.5	5.9	5.9	4.5	4.5	2.2	6.7	8.2	3.7	3.7	No significant change
Central Michigan ⁴	count	16	21	22	19	14	20	20	27	19	17	
	pop	1,200,780	1,199,754	1,199,014	1,198,249	1,198,503	1,201,391	1,204,044	1,204,708	1,205,275	1,205,275	
	rate	1.3	1.8	1.8	1.6	1.2	1.7	1.7	2.2	1.6	1.4	No significant change
Detroit LHD ⁵	count	286	265	263	248	267	239	236	207	177	191	
	pop	812,311	796,613	784,791	779,098	771,883	768,073	765,192	762,454	759,542	759,542	
	rate	35.2	33.3	33.5	31.8	34.6	31.1	30.8	27.1	23.3	25.1	-3.2% (-4.7%, -1.7%)
Genesee Co.	count	32	24	20	27	36	33	30	30	22	31	
	pop	418,243	415,713	412,950	410,574	409,054	407,673	406,626	405,702	404,794	404,794	
	rate	7.7	5.8	4.8	6.6	8.8	8.1	7.4	7.4	5.4	7.7	No significant change

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, Hamtramck, Harper Woods, Highland Park, & the Grosse Pointes. Detroit, under "select cities" (page 7), includes only residents of the city of Detroit.

New Michigan HIV diagnoses 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Local Health Department (LHD) Jurisdiction, continued from previous page												
Ingham Co.	count	24	18	25	14	27	26	15	17	21	23	
	pop	283,592	284,226	285,760	287,255	289,633	291,678	291,267	291,426	290,609	290,609	
	rate	8.5	6.3	8.7	4.9	9.3	8.9	5.1	5.8	7.2	7.9	No significant change
Ionia Co.	count	1	2	1	2	1	2	2	1	1	2	
	pop	63,890	64,001	64,246	64,073	64,215	64,293	64,290	64,654	64,553	64,553	
	rate	1.6	3.1	1.6	3.1	1.6	3.1	3.1	1.5	1.5	3.1	No significant change
Jackson Co.	count	3	7	14	8	6	10	0	4	1	8	
	pop	159,988	159,672	159,464	159,325	158,345	158,653	158,594	158,357	156,920	156,920	
	rate	1.9	4.4	8.8	5	3.8	6.3	0	2.5	0.6	5.1	No significant change
Kalamazoo Co.	count	26	12	19	18	10	18	16	27	20	15	
	pop	255,413	257,399	259,063	259,816	261,584	263,387	265,120	265,531	265,988	265,988	
	rate	10.2	4.7	7.3	6.9	3.8	6.8	6	10.2	7.5	5.6	No significant change
Kent Co.	count	47	40	51	42	46	46	39	41	33	37	
	pop	615,871	624,409	631,464	637,333	644,219	649,722	653,636	656,800	658,708	658,708	
	rate	7.6	6.4	8.1	6.6	7.1	7.1	6	6.2	5	5.6	No significant change
Lapeer Co.	count	1	1	0	1	3	3	4	2	2	1	
	pop	88,200	88,299	88,202	88,376	88,227	88,218	87,987	87,808	87,635	87,635	
	rate	1.1	1.1	0	1.1	3.4	3.4	4.5	2.3	2.3	1.1	No significant change
Lenawee Co.	count	1	2	3	2	2	4	8	2	0	2	
	pop	99,041	98,850	98,774	98,432	98,595	98,511	98,118	98,519	97,808	97,808	
	rate	1	2	3	2	2	4.1	8.2	2	0	2	No significant change
Livingston Co.	count	4	6	4	7	3	3	3	7	2	1	
	pop	182,805	184,238	185,567	187,221	188,585	189,923	191,259	192,058	192,335	192,335	
	rate	2.2	3.3	2.2	3.7	1.6	1.6	1.6	3.6	1	0.5	No significant change
Macomb Co.	count	59	53	50	62	54	70	76	54	47	62	
	pop	849,761	857,146	862,914	865,031	868,329	870,867	872,089	872,389	870,791	870,791	
	rate	6.9	6.2	5.8	7.2	6.2	8	8.7	6.2	5.4	7.1	No significant change
Marquette ¹	count	5	3	1	6	4	7	2	6	2	4	
	pop	310,613	309,438	307,627	305,439	302,850	302,009	300,680	298,836	296,181	296,181	
	rate	1.6	1	0.3	2	1.3	2.3	0.7	2	0.7	1.4	No significant change
Monroe Co.	count	6	3	4	6	3	4	9	4	4	9	
	pop	150,835	150,193	149,919	149,439	149,278	149,523	150,218	150,412	150,568	150,568	
	rate	4	2	2.7	4	2	2.7	6	2.7	2.7	6	No significant change
Muskegon Co.	count	2	6	8	6	5	4	9	4	5	4	
	pop	170,191	172,312	172,304	172,506	173,342	173,804	173,719	173,645	173,883	173,883	
	rate	1.2	3.5	4.6	3.5	2.9	2.3	5.2	2.3	2.9	2.3	No significant change
Oakland Co.	count	108	101	103	84	90	102	82	75	58	75	
	pop	1,223,723	1,235,656	1,243,076	1,244,895	1,251,563	1,256,478	1,257,472	1,257,726	1,253,459	1,253,459	
	rate	8.8	8.2	8.3	6.7	7.2	8.1	6.5	6	4.6	6	-4.2% (-6.6%, -1.8%)

LHD Jurisdictions continued on next page

¹Marquette LHD includes the entire upper peninsula

New Michigan HIV diagnoses 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Local Health Department (LHD) Jurisdiction, continued from previous page												
Ottawa Co.	count	2	4	7	9	3	11	7	9	0	4	
	pop	270,868	274,394	277,888	280,907	283,686	286,452	289,578	291,460	294,635	294,635	
	rate	0.7	1.5	2.5	3.2	1.1	3.8	2.4	3.1	0	1.4	No significant change
Saginaw Co.	count	15	18	12	6	19	19	9	5	5	4	
	pop	198,409	196,859	195,317	193,384	192,636	192,002	190,841	190,484	189,868	189,868	
	rate	7.6	9.1	6.1	3.1	9.9	9.9	4.7	2.6	2.6	2.1	-10.6% (-19.8%, -0.3%)
Shiawassee Co.	count	0	0	4	4	0	0	1	2	0	0	
	pop	69,345	68,927	68,841	68,538	68,589	68,422	68,064	68,065	67,738	67,738	
	rate	0	0	5.8	5.8	0	0	1.5	2.9	0	0	No significant change
St. Clair Co.	count	4	5	1	6	9	4	5	6	10	2	
	pop	160,637	160,312	160,103	159,757	159,477	159,130	159,186	159,339	159,293	159,293	
	rate	2.5	3.1	0.6	3.8	5.6	2.5	3.1	3.8	6.3	1.3	No significant change
The Thumb ¹	count	5	2	1	1	1	1	1	1	2	0	
	pop	129,460	128,367	127,618	126,947	126,169	125,378	125,118	124,479	123,689	123,689	
	rate	3.9	1.6	0.8	0.8	0.8	0.8	0.8	0.8	1.6	0	-24.9% (-41.2%, -4.0%)
Van Buren-Cass	count	4	4	3	2	3	2	4	1	3	3	
	pop	127,127	126,936	126,836	126,457	126,609	126,830	127,207	127,441	127,058	127,058	
	rate	3.1	3.2	2.4	1.6	2.4	1.6	3.1	0.8	2.4	2.4	No significant change
Washtenaw Co.	count	25	34	26	33	30	17	28	23	14	24	
	pop	352,685	356,474	360,523	363,555	366,960	369,703	370,548	368,242	366,473	366,473	
	rate	7.1	9.5	7.2	9.1	8.2	4.6	7.6	6.2	3.8	6.5	No significant change
Wayne Co. (excl Detroit LHD)	count	84	70	99	74	72	88	65	79	52	71	
	pop	983,486	983,518	986,835	985,768	988,952	989,801	990,676	987,639	981,081	981,081	
	rate	8.5	7.1	10	7.5	7.3	8.9	6.6	8	5.3	7.2	No significant change

¹The Thumb includes Huron, Sanilac & Tuscola Counties

New Michigan HIV diagnoses 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Metropolitan Statistical Areas (MSA's)¹												
Ann Arbor	count	25	34	26	33	30	17	28	23	14	24	
	pop	352,685	356,474	360,523	363,555	366,960	369,703	370,548	368,242	366,473	366,473	
	rate	7.1	9.5	7.2	9.1	8.2	4.6	7.6	6.2	3.8	6.5	No significant change
Battle Creek	count	6	8	8	6	6	3	9	11	5	5	
	pop	134,755	134,782	134,845	134,377	134,343	134,127	133,858	133,806	133,580	133,580	
	rate	4.5	5.9	5.9	4.5	4.5	2.2	6.7	8.2	3.7	3.7	No significant change
Bay City	count	3	2	2	1	5	7	6	3	3	1	
	pop	106,980	106,817	106,073	105,271	104,421	104,085	103,674	102,964	102,387	102,387	
	rate	2.8	1.9	1.9	0.9	4.8	6.7	5.8	2.9	2.9	1.0	No significant change
Detroit-Warren- Dearborn	count	546	501	520	482	498	509	471	430	348	403	
	pop	4,300,923	4,305,782	4,311,488	4,310,146	4,317,016	4,322,490	4,323,861	4,319,413	4,304,136	4,304,136	
	rate	12.7	11.6	12.1	11.2	11.5	11.8	10.9	10.0	8.1	9.4	-2.8% (-3.9%, -1.8%)
Flint	count	32	24	20	27	36	33	30	30	22	31	
	pop	418,243	415,713	412,950	410,574	409,054	407,673	406,626	405,702	404,794	404,794	
	rate	7.7	5.8	4.8	6.6	8.8	8.1	7.4	7.4	5.4	7.7	No significant change
Grand Rapids- Wyoming	count	50	47	66	52	49	59	48	52	36	48	
	pop	1,008,864	1,020,698	1,031,471	1,040,452	1,050,694	1,060,416	1,068,263	1,073,449	1,078,880	1,078,880	
	rate	5.0	4.6	6.4	5.0	4.7	5.6	4.5	4.8	3.3	4.4	No significant change
Jackson	count	3	7	14	8	6	10	0	4	1	8	
	pop	159,988	159,672	159,464	159,325	158,345	158,653	158,594	158,357	156,920	156,920	
	rate	1.9	4.4	8.8	5.0	3.8	6.3	0.0	2.5	0.6	5.1	No significant change
Kalamazoo- Portage	count	29	15	21	20	13	19	17	27	21	16	
	pop	330,725	332,734	334,314	334,903	336,867	338,683	340,554	341,125	341,462	341,462	
	rate	8.8	4.5	6.3	6.0	3.9	5.6	5.0	7.9	6.2	4.7	No significant change
Lansing-E Lansing	count	29	24	33	24	35	27	20	20	24	32	
	pop	467,776	469,335	471,401	472,993	476,492	479,707	480,180	481,160	480,510	480,510	
	rate	6.2	5.1	7.0	5.1	7.3	5.6	4.2	4.2	5.0	6.7	No significant change
Midland	count	0	2	0	2	0	2	0	2	0	0	
	pop	83,743	83,683	83,534	83,706	83,485	83,442	83,447	83,412	83,441	83,441	
	rate	0.0	2.4	0.0	2.4	0.0	2.4	0.0	2.4	0.0	0.0	No significant change
Monroe	count	6	3	4	6	3	4	9	4	4	9	
	pop	150,835	150,193	149,919	149,439	149,278	149,523	150,218	150,412	150,568	150,568	
	rate	4.0	2.0	2.7	4.0	2.0	2.7	6.0	2.7	2.7	6.0	No significant change
Muskegon	count	2	6	8	6	5	4	9	4	5	4	
	pop	170,191	172,312	172,304	172,506	173,342	173,804	173,719	173,645	173,883	173,883	
	rate	1.2	3.5	4.6	3.5	2.9	2.3	5.2	2.3	2.9	2.3	No significant change
Niles-Benton Harbor	count	10	15	10	6	5	9	3	2	5	8	
	pop	156,669	156,205	156,074	155,136	154,451	154,264	153,892	153,352	153,025	153,025	
	rate	6.4	9.6	6.4	3.9	3.2	5.8	1.9	1.3	3.3	5.2	-10.6% (-18.8%, -1.5%)

MSA's continued on next page

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

New Michigan HIV diagnoses 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Metropolitan Statistical Areas (MSA's)¹, continued from previous page												
Saginaw	count	24	18	25	14	27	26	15	17	21	23	
	pop	283,592	284,226	285,760	287,255	289,633	291,678	291,267	291,426	290,609	290,609	
	rate	8.5	6.3	8.7	4.9	9.3	8.9	5.1	5.8	7.2	7.9	-10.6% (-19.8%, -0.3%)
Micropolitan Area	count	1	2	1	2	1	2	2	1	1	2	
	pop	63,890	64,001	64,246	64,073	64,215	64,293	64,290	64,654	64,553	64,553	
	rate	1.6	3.1	1.6	3.1	1.6	3.1	3.1	1.5	1.5	3.1	No significant change
Rural	count	3	7	14	8	6	10	0	4	1	8	
	pop	159,988	159,672	159,464	159,325	158,345	158,653	158,594	158,357	156,920	156,920	
	rate	1.9	4.4	8.8	5	3.8	6.3	0	2.5	0.6	5.1	No significant change

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

New Michigan HIV diagnoses 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Select cities: cities with at least 50 new HIV diagnoses over the 10 year period.												
Ann Arbor	count	16	12	8	6	11	6	15	8	5	9	
	pop	120,544	121,341	123,293	124,487	125,635	126,234	126,236	124,617	123,778	123,778	
	rate	13.3	9.9	6.5	4.8	8.8	4.8	11.9	6.4	4.0	7.3	No significant change
Battle Creek	count	6	7	7	6	6	3	9	7	4	9	
	pop	51,865	51,787	51,779	51,562	51,439	51,243	51,017	50,948	50,799	50,799	
	rate	11.6	13.5	13.5	11.6	11.7	5.9	17.6	13.7	7.9	17.7	No significant change
Clinton Township	count	12	7	5	6	12	11	7	8	6	10	
	pop	98,019	98,737	99,413	99,911	100,462	100,626	100,458	100,286	99,792	99,792	
	rate	12.2	7.1	5.0	6.0	11.9	10.9	7.0	8.0	6.0	10.0	No significant change
Dearborn	count	7	8	6	3	7	3	4	9	6	2	
	pop	96,885	96,073	95,984	95,502	95,079	94,758	94,470	93,988	93,367	93,367	
	rate	7.2	8.3	6.3	3.1	7.4	3.2	4.2	9.6	6.4	2.1	No significant change
Detroit	count	272	254	252	237	253	227	224	197	170	181	
	pop	700,289	691,986	682,746	679,562	677,379	675,031	673,658	670,442	665,369	665,369	
	rate	38.8	36.7	36.9	34.9	37.3	33.6	33.3	29.4	25.5	27.2	-3.5% (-5.0%, -2.0%)
Eastpointe	count	4	9	10	3	2	6	15	10	6	5	
	pop	32,512	32,672	32,739	32,612	32,621	32,495	32,254	32,021	31,720	31,720	
	rate	12.3	27.5	30.5	9.2	6.1	18.5	46.5	31.2	18.9	15.8	No significant change
Ferndale	count	14	8	10	3	6	5	3	3	2	3	
	pop	20,178	20,299	20,319	20,232	20,222	20,174	20,054	20,037	20,198	20,198	
	rate	69.4	39.4	49.2	14.8	29.7	24.8	15.0	15.0	9.9	14.9	-17.6% (-26.0%, -8.2%)
Flint	count	25	19	15	15	27	28	24	19	15	21	
	pop	131,730	130,785	129,705	128,694	127,859	127,078	126,373	125,833	125,158	125,158	
	rate	19.0	14.5	11.6	11.7	21.1	22.0	19.0	15.1	12.0	16.8	No significant change
Grand Rapids	count	31	27	40	31	34	36	29	35	26	24	
	pop	208,021	210,532	212,127	213,134	214,985	217,650	218,821	219,692	218,884	218,884	
	rate	14.9	12.8	18.9	14.5	15.8	16.5	13.3	15.9	11.9	11.0	No significant change
Highland Park	count	6	6	4	6	10	7	8	5	5	6	
	pop	11,143	11,052	11,030	10,974	10,921	10,876	10,828	10,787	10,712	10,712	
	rate	53.8	54.3	36.3	54.7	91.6	64.4	73.9	46.4	46.7	56.0	No significant change
Inkster	count	9	9	8	6	8	9	4	10	3	3	
	pop	25,102	24,873	24,858	24,731	24,623	24,530	24,425	24,291	24,115	24,115	
	rate	35.9	36.2	32.2	24.3	32.5	36.7	16.4	41.2	12.4	12.4	No significant change
Jackson	count	11	11	21	13	9	9	9	10	3	9	
	pop	33,194	33,135	33,028	32,942	32,732	32,724	32,575	32,411	32,374	32,374	
	rate	33.1	33.2	63.6	39.5	27.5	27.5	27.6	30.9	9.3	27.8	No significant change
Kalamazoo	count	25	11	13	17	6	14	13	23	16	14	
	pop	97,841	98,237	98,621	98,386	98,519	98,606	99,288	99,022	98,617	98,617	
	rate	25.6	11.2	13.2	17.3	6.1	14.2	13.1	23.2	16.2	14.2	No significant change

Select cities continued on next page

New Michigan HIV diagnoses 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Select cities, continued from previous page												
Lansing	count	16	18	24	18	26	22	13	13	15	22	
	pop	122,904	122,999	123,367	123,629	124,757	125,857	126,046	126,029	125,700	125,700	
	rate	13	14.6	19.5	14.6	20.8	17.5	10.3	10.3	11.9	17.5	No significant change
Oak Park	count	3	6	4	8	4	7	4	7	3	6	
	pop	29,836	30,024	30,058	29,924	29,895	29,805	29,595	29,434	29,293	29,293	
	rate	10.1	20	13.3	26.7	13.4	23.5	13.5	23.8	10.2	20.5	No significant change
Pontiac	count	14	15	14	10	13	23	13	16	9	8	
	pop	60,305	60,458	60,476	60,275	60,247	60,147	59,776	59,441	58,911	58,911	
	rate	23.2	24.8	23.1	16.6	21.6	38.2	21.7	26.9	15.3	13.6	No significant change
Redford	count	5	9	5	5	4	5	3	5	6	6	
	pop	47,808	47,448	47,504	47,364	47,220	47,068	46,908	46,641	46,291	46,291	
	rate	10.5	19	10.5	10.6	8.5	10.6	6.4	10.7	13	13	No significant change
Roseville	count	8	3	5	6	7	4	3	7	4	9	
	pop	47,503	47,741	47,816	47,651	47,618	47,474	47,232	46,930	46,535	46,535	
	rate	16.8	6.3	10.5	12.6	14.7	8.4	6.4	14.9	8.6	19.3	No significant change
Royal Oak	count	12	7	6	8	5	8	5	4	2	7	
	pop	60,585	61,027	61,241	61,221	61,709	61,845	61,828	61,704	61,355	61,355	
	rate	19.8	11.5	9.8	13.1	8.1	12.9	8.1	6.5	3.3	11.4	No significant change
Saginaw	count	15	18	11	6	19	18	8	4	4	4	
	pop	91,427	90,660	89,842	88,888	88,499	88,170	87,563	87,246	86,832	86,832	
	rate	16.4	19.9	12.2	6.8	21.5	20.4	9.1	4.6	4.6	4.6	-11.4% (-20.9%, -0.9%)
Southfield	count	16	21	16	18	16	17	13	12	9	11	
	pop	87,463	88,093	88,350	88,258	88,368	88,286	87,836	87,454	86,822	86,822	
	rate	18.3	23.8	18.1	20.4	18.1	19.3	14.8	13.7	10.4	12.7	-5.3% (-11.0%, -0.6%)
Sterling Heights	count	7	4	5	10	0	11	11	5	5	6	
	pop	130,677	131,527	132,141	132,051	132,489	132,599	132,612	132,187	131,709	131,709	
	rate	5.4	3	3.8	7.6	0	8.3	8.3	3.8	3.8	4.6	No significant change
Taylor	count	5	4	8	10	7	9	6	6	5	9	
	pop	62,469	61,963	62,075	61,786	61,594	61,431	61,216	60,949	60,576	60,576	
	rate	8	6.5	12.9	16.2	11.4	14.7	9.8	9.8	8.3	14.9	No significant change
Warren	count	14	15	11	18	11	19	16	10	13	15	
	pop	134,596	135,319	135,673	135,393	135,206	135,011	134,248	133,667	132,877	132,877	
	rate	10.4	11.1	8.1	13.3	8.1	14.1	11.9	7.5	9.8	11.3	No significant change

New Michigan HIV diagnoses 2012 - 2021: Demographic Stratification

	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)	
Sex at birth													
Male	count	646	625	639	593	625	625	569	557	435	538		
	pop	4,859,376	4,869,738	4,881,058	4,885,706	4,898,650	4,912,208	4,918,489	4,918,052	4,907,813	4,907,813		
	rate	13.3	12.8	13.1	12.1	12.8	12.7	11.6	11.3	8.9	11.0	-2.1%	(-3.0%, -1.1%)
Female	count	146	121	143	129	112	141	141	109	83	100		
	pop	5,038,913	5,045,064	5,050,975	5,048,777	5,055,467	5,064,544	5,068,797	5,066,743	5,058,742	5,058,742		
	rate	2.9	2.4	2.8	2.6	2.2	2.8	2.8	2.2	1.6	2.0	-2.8%	(-5.1%, -0.4%)
Trans-gender ¹	count	22	14	19	10	21	17	19	16	13	12		
	MI %	2.8%	1.9%	2.4%	1.4%	2.9%	2.2%	2.7%	2.4%	2.5%	1.9%	No significant change	
Race by sex at birth²													
Black/AA overall	count	485	476	468	438	415	447	406	383	318	344		
	pop	1,452,245	1,450,973	1,451,656	1,451,144	1,452,397	1,454,778	1,456,965	1,458,479	1,456,824	1,456,824		
	rate	33.4	32.8	32.2	30.2	28.6	30.7	27.9	26.3	21.8	23.6	-3.6%	(-4.7%, -2.4)
Black/AA males	count	383	395	366	352	350	350	320	315	260	283		
	pop	690,416	689,940	690,510	690,619	691,613	692,457	693,206	693,689	691,951	691,951		
	rate	55.5	57.3	53.0	51.0	50.6	50.5	46.2	45.4	37.6	40.9	-3.4%	(-4.6%, -2.1%)
Black/AA females	count	102	81	102	86	65	97	86	68	58	61		
	pop	761,829	761,033	761,146	760,525	760,784	762,321	763,759	764,790	764,873	764,873		
	rate	13.4	10.6	13.4	11.3	8.5	12.7	11.3	8.9	7.6	8.0	-4.4%	(-7.4%, -1.2%)
Latinx overall	count	38	39	50	46	53	66	51	57	38	47		
	pop	459,013	468,717	478,157	486,925	498,873	509,922	521,419	533,351	542,105	542,105		
	rate	8.3	8.3	10.5	9.4	10.6	12.9	9.8	10.7	7.0	8.7	No significant change	
Latinx males	count	30	34	45	37	47	57	43	52	33	43		
	pop	233,064	237,909	242,786	247,239	253,512	259,122	264,973	271,042	275,468	275,468		
	rate	12.9	14.3	18.5	15.0	18.5	22.0	16.2	19.2	12.0	15.6	No significant change	
Latinx females	count	8	5	5	9	6	9	8	5	5	4		
	pop	225,949	230,808	235,371	239,686	245,361	250,800	256,446	262,309	266,637	266,637		
	rate	3.5	2.2	2.1	3.8	2.4	3.6	3.1	1.9	1.9	1.5	No significant change	
White overall	count	233	203	227	209	227	235	221	209	143	218		
	pop	7,632,935	7,627,784	7,621,895	7,604,621	7,596,932	7,593,504	7,582,182	7,562,401	7,534,869	7,534,869		
	rate	3.1	3.3	3.0	2.7	3.0	3.1	2.9	2.8	1.9	2.9	No significant change	
White males	count	204	172	199	179	194	203	180	176	125	184		
	pop	3,763,497	3,762,932	3,762,123	3,756,169	3,754,138	3,754,388	3,749,663	3,740,681	3,726,688	3,726,688		
	rate	5.4	4.6	5.3	4.8	5.2	5.4	4.8	4.7	3.4	4.9	No significant change	
White females	count	29	31	28	30	33	32	41	33	18	34		
	pop	3,869,438	3,864,852	3,859,772	3,848,452	3,842,794	3,839,116	3,832,519	3,821,720	3,808,181	3,808,181		
	rate	0.7	0.8	0.7	0.8	0.9	0.8	1.1	0.9	0.5	0.9	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, Latinx, White, & Multi/Other are mutually exclusive categories. Persons with unknown race are not included: 1 in 2014, 2016, and 2021.

Measure		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Race by sex at birth , continued from previous page												
Multi/other overall	count	36	28	36	29	41	18	32	17	19	28	
	pop	354,096	367,328	380,325	391,793	405,915	418,548	426,720	430,564	432,757	432,757	
	rate	10.2	7.6	9.5	7.4	10.1	4.3	7.5	3.9	4.4	6.5	-6.5% (-11.6%, -1.0%)
Multi/other males	count	29	24	28	25	33	15	26	14	17	27	
	pop	172,399	178,957	185,639	191,679	199,387	206,241	210,647	212,640	213,706	213,706	
	rate	16.8	13.4	15.1	13.0	16.6	7.3	12.3	6.6	8.0	12.6	-5.4% (-10.6%, -0.1%)
Multi/other females	count	7	4	8	4	8	3	6	3	2	1	
	pop	181,697	188,371	194,686	200,114	206,528	212,307	216,073	217,924	219,051	219,051	
	rate	3.9	2.1	4.1	2.0	3.9	1.4	2.8	1.4	0.9	0.5	-12.7% (-22.0%, -2.2%)
Ethnicity and country of birth												
Arab/Mid E descent ¹	count	1	11	3	4	6	5	7	8	6	4	
	MI %	0.1%	1.5%	0.4%	0.6%	0.8%	0.7%	1.0%	1.2%	1.2%	0.6%	No significant change
Foreign born ²	count	40	40	44	47	49	39	30	35	17	18	
	MI %	5.1%	5.4%	5.6%	6.5%	6.7%	5.1%	4.2%	5.3%	3.3%	2.8%	No significant change
Age (yrs) at HIV diagnosis												
00-14	count	3	0	3	2	1	2	2	0	0	2	
	pop	1,859,546	1,842,671	1,827,015	1,807,735	1,795,231	1,787,642	1,777,598	1,763,545	1,748,988	1,748,988	
	rate	0.2	0.0	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	No significant change
15-19	count	64	57	44	36	55	49	41	43	21	31	
	pop	701,731	689,422	679,240	673,348	669,622	661,892	652,633	644,542	633,603	633,603	
	rate	9.1	8.3	6.5	5.3	8.2	7.4	6.3	6.7	3.3	4.9	-4.6% (-7.9%, 1.1%)
20-29	count	328	292	341	315	315	333	301	270	210	230	
	pop	1,309,647	1,329,996	1,350,444	1,361,626	1,373,552	1,385,554	1,387,849	1,379,772	1,358,033	1,358,033	
	rate	25.0	22.0	25.3	23.1	22.9	24.0	21.7	19.6	15.5	16.9	-3.4% (-4.9%, -1.8%)
30-39	count	152	142	159	140	141	158	166	178	136	186	
	pop	1,154,771	1,157,209	1,161,361	1,167,312	1,179,755	1,189,888	1,201,063	1,213,625	1,229,514	1,229,514	
	rate	13.2	12.3	13.7	12.0	12.0	13.3	13.8	14.7	11.1	15.1	+2.0% (0.1%, 4.0%)
40-49	count	138	133	122	120	105	112	89	90	66	87	
	pop	1,351,274	1,316,951	1,280,527	1,249,326	1,224,272	1,206,477	1,192,689	1,178,852	1,163,203	1,163,203	
	rate	10.2	10.1	9.5	9.6	8.6	9.3	7.5	7.6	5.7	7.5	-3.9% (-6.1%, -1.7%)
50-59	count	82	85	88	85	95	88	74	58	64	73	
	pop	1,469,423	1,471,353	1,468,331	1,454,391	1,433,197	1,405,869	1,376,584	1,350,178	1,328,150	1,328,150	
	rate	5.6	5.8	6.0	5.8	6.6	6.3	5.4	4.3	4.8	5.5	No significant change
60+	count	25	37	25	24	25	24	37	27	21	29	
	pop	2,051,897	2,107,200	2,165,115	2,220,745	2,278,488	2,339,430	2,398,870	2,454,281	2,505,064	2,505,064	
	rate	1.2	1.8	1.2	1.1	1.1	1.0	1.5	1.1	0.8	1.2	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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
HIV transmission risk by gender¹												
Sex w men	count	571	507	597	512	546	573	510	502	340	383	
	MI %	72.1%	68.0%	76.3%	70.9%	74.1%	74.8%	71.8%	75.4%	65.6%	60.0%	No significant change
Cis men	count	452	411	466	414	438	447	378	397	285	322	
	MI %	57.1%	55.1%	59.6%	57.3%	59.4%	58.4%	53.2%	59.6%	55.0%	50.5%	No significant change
Cis women	count	101	85	114	88	89	110	115	90	42	51	
	MI %	12.8%	11.4%	14.6%	12.2%	12.1%	14.4%	16.2%	13.5%	8.1%	8.0%	No significant change
Trans-gender	count	18	11	17	10	19	16	17	15	13	10	
	MI %	2.3%	1.5%	2.2%	1.4%	2.6%	2.1%	2.4%	2.3%	2.5%	1.6%	No significant change
PWID	count	27	35	17	25	24	31	38	21	15	21	
	MI %	3.4%	4.7%	2.2%	3.5%	3.3%	4.0%	5.4%	3.2%	2.9%	3.3%	No significant change
Cis men	count	16	16	12	12	11	11	23	12	8	10	
	MI %	2.0%	2.1%	1.5%	1.7%	1.5%	1.4%	3.2%	1.8%	1.5%	1.6%	No significant change
Cis women	count	11	19	5	13	13	20	15	9	7	11	
	MI %	1.4%	2.5%	0.6%	1.8%	1.8%	2.6%	2.1%	1.4%	1.4%	1.7%	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	15	17	20	16	27	22	22	20	16	24	
	MI %	1.9%	2.3%	2.6%	2.2%	3.7%	2.9%	3.1%	3.0%	3.1%	3.8%	+6.6% (1.1%, 12.3%)
Cis men	count	12	14	18	16	27	22	20	18	16	23	
	MI %	1.5%	1.9%	2.3%	2.2%	3.7%	2.9%	2.8%	2.7%	3.1%	3.6%	+7.8% (2.1%, 13.9%)
Trans-gender	count	3	3	2	0	0	0	2	2	0	1	
	MI %	0.4%	0.4%	0.3%	0.0%	0.0%	0.0%	0.3%	0.3%	0.0%	0.2%	No significant change
Sex w women	count	28	43	29	36	32	34	29	25	19	9	
	MI %	3.5%	5.8%	3.7%	5.0%	4.3%	4.4%	4.1%	3.8%	3.7%	1.4%	-6.2% (-11.8%, -0.2%)
Cis men	count	28	43	29	36	32	34	29	25	19	9	
	MI %	3.5%	5.8%	3.7%	5.0%	4.3%	4.4%	4.1%	3.8%	3.7%	1.4%	-6.2% (-11.8%, -0.2%)
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	0	3	0	1	1	2	0	0	0	
	MI %	0.3%	0.0%	0.4%	0.0%	0.1%	0.1%	0.3%	0.0%	0.0%	0.0%	No significant change
Cis men	count	1	0	2	0	0	0	1	0	0	0	
	MI %	0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	No significant change
Cis women	count	1	0	1	0	1	1	1	0	0	0	
	MI %	0.1%	0.0%	0.1%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	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	149	144	116	133	107	105	109	98	128	201	
	MI %	18.8%	19.3%	14.8%	18.4%	14.5%	13.7%	15.4%	14.7%	24.7%	31.5%	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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Special populations												
Men who have sex with men (MSM) including MSM/PWID (persons who inject drugs)												
MSM	count	464	425	484	430	465	469	398	415	301	345	
	est pop	281,844	282,445	283,101	283,371	284,122	284,908	285,272	285,247	284,653	284,653	
	rate	164.6	150.5	171.0	151.7	163.7	164.6	139.5	145.5	105.7	121.2	-2.6% (-4.2%, -1.0%)
15-29 yr old	count	190	199	192	185	193	184	162	161	120	120	
Black/AA MSM (YBMSM)	est pop	10,124	10,197	10,281	10,356	10,390	10,370	10,294	10,182	9,904	9,904	
	rate	1,876.7	1,951.5	1,867.6	1,786.5	1,857.6	1,774.4	1,573.7	1,581.3	1,211.6	1,211.6	-4.1% (-5.8%, -2.3%)
Persons who inject drugs (PWID) including MSM/PWID												
PWID	count	42	52	37	41	51	53	60	41	31	45	
	MI %	5.3%	7.0%	4.7%	5.7%	6.9%	6.9%	8.5%	6.2%	6.0%	7.1%	No significant change
15-29 yr old	count	9	21	18	14	16	25	20	15	14	15	
PWID	MI %	1.1%	2.8%	2.3%	1.9%	2.2%	3.3%	2.8%	2.3%	2.7%	2.4%	+7.7% (1.7%, 14.0%)
Young (15-29) Black/AA men compared to others												
15-29 yr old	count	222	232	219	216	219	224	190	180	138	144	
Black/AA men (YBM)	pop	174,552	175,811	177,254	178,547	179,134	178,789	177,486	175,544	170,761	170,761	
	rate	127.2	132.0	123.6	121.0	122.3	125.3	107.1	102.5	80.8	84.3	-3.9% (-5.6%, -2.3%)
Other youth	count	170	117	166	135	151	158	152	133	93	117	
15-29	pop	1,836,826	1,843,607	1,852,430	1,856,427	1,864,040	1,868,657	1,862,996	1,848,770	1,820,875	1,820,875	
	rate	9.3	6.3	9.0	7.3	8.1	8.5	8.2	7.2	5.1	6.4	No significant change
30+ yrs old	count	397	397	394	369	366	382	366	353	287	375	
	pop	6,027,365	6,052,713	6,075,334	6,091,774	6,115,712	6,141,664	6,169,206	6,196,936	6,225,931	6,225,931	
	rate	6.6	6.6	6.5	6.1	6.0	6.2	5.9	5.7	4.6	6.0	-1.4% (-2.6%, -0.2%)

Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% 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	438	367	479	397	453	489	414	384	200	281	
HIV negative	MI %	55.3%	49.2%	61.3%	55.0%	61.5%	63.8%	58.3%	57.7%	38.6%	44.0%	No significant change
Negative test												
w/in 2yrs of diagnosis	count	339	263	354	314	321	338	251	264	147	224	
	MI %	42.8%	35.3%	45.3%	43.5%	43.6%	44.1%	35.4%	39.6%	28.4%	35.1%	No significant change

The proportion of persons newly diagnosed with HIV who had ever tested negative appeared to drop drastically during 2020. This is likely a reflection of a decline in negative tests reported rather than a true decline in lifetime HIV testing.

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			109	137	164	115	116	77	106		
	MI %			15.1%	18.6%	21.4%	16.2%	17.4%	14.9%	16.6%		No significant change
Late diagnosis	count	171	203	177	156	171	147	164	146	96	109	
	MI %	21.6%	27.2%	22.6%	21.6%	23.2%	19.2%	23.1%	21.9%	18.5%	17.1%	-2.6% (-4.8%, -0.3%)

The decrease in late diagnoses was driven by Outstate MI (outside the DMA).

Facility of diagnosis. The proportion of persons newly diagnosed at blood/plasma centers was stable. Diagnoses at ER's, and outpatient care facilities significantly increased while the proportion diagnosed at Community Based Organizations (CBO's), ID/HIV clinics, inpatient facilities, insurance screenings, and LHD's significantly decreased. The increase at ER's is due to hospitals implementing opt-out HIV testing. Not all facility types are displayed below.												
Blood/Plasma center	count	36	33	25	23	36	47	50	57	26	22	
	MI %	4.5%	4.4%	3.2%	3.2%	4.9%	6.1%	7.0%	8.6%	5.0%	3.4%	No significant change
CBO	count	119	81	88	83	71	96	49	59	21	34	
	MI %	15.0%	10.9%	11.3%	11.5%	9.6%	12.5%	6.9%	8.9%	4.1%	5.3%	-8.10% (-11.7%, -4.5%)
ER	count	53	40	40	52	55	57	53	58	59	49	
	MI %	6.7%	5.4%	5.1%	7.2%	7.5%	7.4%	7.5%	8.7%	11.4%	7.7%	+4.2% (0.8%, 7.7%)
Local Health Department	count	121	132	131	107	121	111	82	115	67	78	
	MI %	15.3%	17.7%	16.8%	14.8%	16.4%	14.5%	11.5%	17.3%	12.9%	12.2%	-2.60% (-5.1%, -0.1%)

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	324	307	340	326	347	378	357	325	268	337	
	MI %	40.9%	41.2%	43.5%	45.2%	47.1%	49.3%	50.3%	48.8%	51.7%	52.8%	+3.0% (1.7%, 4.3%)
8-90 day linkage	count	576	541	584	550	585	644	566	550	412	534	
	MI %	72.7%	72.5%	74.7%	76.2%	79.4%	84.1%	79.7%	82.6%	79.5%	83.7%	+1.8% (0.8%, 2.9%)
VS in 6mo of diagnosis	count	280	271	369	389	445	522	479	496	361	475	
	MI %	35.4%	36.3%	47.2%	53.9%	60.4%	68.1%	67.5%	74.5%	69.7%	74.5%	+9.6% (7.1%, 12.1%)
VS in 12mo of diagnosis	count	421	409	523	523	547	609	559	555	414	514	
	MI %	53.2%	54.8%	66.9%	72.4%	74.2%	79.5%	78.7%	83.3%	79.9%	80.6%	+5.1% (3.3%, 6.9%)

Linkage and VS indicators have improved across the majority of geographic and demographic groups statewide.



The Detroit Metro Area, 2012 - 2021

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 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
DMA ¹	count	548	498	520	481	498	510	477	427	350	411	
	pop	4,268,953	4,271,737	4,275,840	4,272,364	4,277,709	4,282,090	4,282,820	4,277,767	4,262,369	4,262,369	
	rate	12.8	11.7	12.2	11.3	11.6	11.9	11.1	10.0	8.2	9.6	-2.7% (-3.7%, -1.6%)
DMA Prison ²	count	0	0	1	1	2	5	1	3	0	1	
	DMA %	0.0%	0.0%	0.2%	0.2%	0.4%	1.0%	0.2%	0.7%	0.0%	0.2%	No significant change

Local Health Department (LHD) Jurisdiction

Detroit LHD ³	count	286	265	263	248	267	239	236	207	177	191	
	pop	812,311	796,613	784,791	779,098	771,883	768,073	765,192	762,454	759,542	759,542	
	rate	35.2	33.3	33.5	31.8	34.6	31.1	30.8	27.1	23.3	25.1	-3.2% (-4.7%, -1.8%)
Lapeer Co.	count	1	1	0	1	3	3	4	2	2	1	
	pop	88,200	88,299	88,202	88,376	88,227	88,218	87,987	87,808	87,635	87,635	
	rate	1.1	1.1	0	1.1	3.4	3.4	4.5	2.3	2.3	1.1	No significant change
Macomb Co.	count	59	53	50	62	54	70	76	54	47	62	
	pop	849,761	857,146	862,914	865,031	868,329	870,867	872,089	872,389	870,791	870,791	
	rate	6.9	6.2	5.8	7.2	6.2	8	8.7	6.2	5.4	7.1	No significant change
Monroe Co.	count	6	3	4	6	3	4	9	4	4	9	
	pop	150,835	150,193	149,919	149,439	149,278	149,523	150,218	150,412	150,568	150,568	
	rate	4	2	2.7	4	2	2.7	6	2.7	2.7	6	No significant change
Oakland Co.	count	108	101	103	84	90	102	82	75	58	75	
	pop	1,223,723	1,235,656	1,243,076	1,244,895	1,251,563	1,256,478	1,257,472	1,257,726	1,253,459	1,253,459	
	rate	8.8	8.2	8.3	6.7	7.2	8.1	6.5	6	4.6	6	-4.2% (-6.6%, -1.8%)
St. Clair Co.	count	4	5	1	6	9	4	5	6	10	2	
	pop	160,637	160,312	160,103	159,757	159,477	159,130	159,186	159,339	159,293	159,293	
	rate	2.5	3.1	0.6	3.8	5.6	2.5	3.1	3.8	6.3	1.3	No significant change
Wayne Co. (excl Detroit LHD)	count	84	70	99	74	72	88	65	79	52	71	
	pop	983,486	983,518	986,835	985,768	988,952	989,801	990,676	987,639	981,081	981,081	
	rate	8.5	7.1	10	7.5	7.3	8.9	6.6	8	5.3	7.2	No significant change

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

Dearborn	count	7	8	6	3	7	3	4	9	6	2	
	pop	96,885	96,073	95,984	95,502	95,079	94,758	94,470	93,988	93,367	93,367	
	rate	7.2	8.3	6.3	3.1	7.4	3.2	4.2	9.6	6.4	2.1	No significant change
Detroit	count	272	254	252	237	253	227	224	197	170	181	
	pop	700,289	691,986	682,746	679,562	677,379	675,031	673,658	670,442	665,369	665,369	
	rate	38.8	36.7	36.9	34.9	37.3	33.6	33.3	29.4	25.5	27.2	-3.50% (-5.0%, -2.0%)
Eastpointe	count	4	9	10	3	2	6	15	10	6	5	
	pop	32,512	32,672	32,739	32,612	32,621	32,495	32,254	32,021	31,720	31,720	
	rate	12.3	27.5	30.5	9.2	6.1	18.5	46.5	31.2	18.9	15.8	No significant change

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, Hamtramck, Harper Woods, Highland Park, & the Grosse Pointes. Detroit, under "select cities", includes only residents of the city of Detroit.

New DMA HIV diagnoses 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Select cities: cities with at least 50 new HIV diagnoses over the 10 year period.												
Ferndale	count	14	8	10	3	6	5	3	3	2	3	
	pop	20,178	20,299	20,319	20,232	20,222	20,174	20,054	20,037	20,198	20,198	
	rate	69.4	39.4	49.2	14.8	29.7	24.8	15.0	15.0	9.9	14.9	-17.6% (-26.0%, -8.2%)
Highland Park	count	6	6	4	6	10	7	8	5	5	6	
	pop	11,143	11,052	11,030	10,974	10,921	10,876	10,828	10,787	10,712	10,712	
	rate	53.8	54.3	36.3	54.7	91.6	64.4	73.9	46.4	46.7	56.0	No significant change
Inkster	count	9	9	8	6	8	9	4	10	3	3	
	pop	25,102	24,873	24,858	24,731	24,623	24,530	24,425	24,291	24,115	24,115	
	rate	35.9	36.2	32.2	24.3	32.5	36.7	16.4	41.2	12.4	12.4	No significant change
Oak Park	count	3	6	4	8	4	7	4	7	3	6	
	pop	29,836	30,024	30,058	29,924	29,895	29,805	29,595	29,434	29,293	29,293	
	rate	10.1	20.0	13.3	26.7	13.4	23.5	13.5	23.8	10.2	20.5	No significant change
Pontiac	count	14	15	14	10	13	23	13	16	9	8	
	pop	60,305	60,458	60,476	60,275	60,247	60,147	59,776	59,441	58,911	58,911	
	rate	23.2	24.8	23.1	16.6	21.6	38.2	21.7	26.9	15.3	13.6	No significant change
Redford	count	5	9	5	5	4	5	3	5	6	6	
	pop	47,808	47,448	47,504	47,364	47,220	47,068	46,908	46,641	46,291	46,291	
	rate	10.5	19	10.5	10.6	8.5	10.6	6.4	10.7	13	13	No significant change
Royal Oak	count	12	7	6	8	5	8	5	4	2	7	
	pop	60,585	61,027	61,241	61,221	61,709	61,845	61,828	61,704	61,355	61,355	
	rate	19.8	11.5	9.8	13.1	8.1	12.9	8.1	6.5	3.3	11.4	No significant change
Southfield	count	16	21	16	18	16	17	13	12	9	11	
	pop	87,463	88,093	88,350	88,258	88,368	88,286	87,836	87,454	86,822	86,822	
	rate	18.3	23.8	18.1	20.4	18.1	19.3	14.8	13.7	10.4	12.7	No significant change
Sterling Heights	count	7	4	5	10	0	11	11	5	5	6	
	pop	130,677	131,527	132,141	132,051	132,489	132,599	132,612	132,187	131,709	131,709	
	rate	5.4	3	3.8	7.6	0	8.3	8.3	3.8	3.8	4.6	No significant change
Taylor	count	5	4	8	10	7	9	6	6	5	9	
	pop	62,469	61,963	62,075	61,786	61,594	61,431	61,216	60,949	60,576	60,576	
	rate	8	6.5	12.9	16.2	11.4	14.7	9.8	9.8	8.3	14.9	No significant change
Warren	count	14	15	11	18	11	19	16	10	13	15	
	pop	134,596	135,319	135,673	135,393	135,206	135,011	134,248	133,667	132,877	132,877	
	rate	10.4	11.1	8.1	13.3	8.1	14.1	11.9	7.5	9.8	11.3	No significant change
Westland	count	9	10	18	9	5	11	8	10	6	8	
	pop	83,340	82,666	82,634	82,328	82,132	81,980	81,828	81,558	81,116	81,116	
	rate	10.8	12.1	21.8	10.9	6.1	13.4	9.8	12.3	7.4	9.9	No significant change

	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)	
Sex at birth													
Male	count	435	418	422	391	428	414	392	362	304	343		
	pop	2,068,370	2,070,850	2,074,726	2,074,442	2,079,284	2,083,451	2,084,598	2,082,722	2,074,944	2,074,944		
	rate	21.0	20.2	20.3	18.8	20.6	19.9	18.8	17.4	14.7	16.5	-2.3%	(-3.5%, -1.2%)
Female	count	113	80	99	91	72	101	86	68	46	69		
	pop	2,200,583	2,200,887	2,201,114	2,197,922	2,198,425	2,198,639	2,198,222	2,195,045	2,187,425	2,187,425		
	rate	5.1	3.6	4.5	4.1	3.3	4.6	3.9	3.1	2.1	3.2	-4.1%	(-6.9%, -1.1%)
Trans-gender ¹	count	18	10	13	10	15	12	11	13	10	8		
	DMA %	3.3%	2.0%	2.5%	2.1%	3.0%	2.4%	2.3%	3.0%	2.9%	1.9%	No significant change	
Race by sex at birth²													
Black/AA overall	count	375	357	370	333	320	343	323	284	244	260		
	pop	999,805	996,119	994,152	992,020	991,043	991,376	991,602	991,902	990,129	990,129		
	rate	37.5	35.8	37.2	33.6	32.3	34.6	32.6	28.6	24.6	26.3	-3.6%	(-4.8%, -2.3)
Black/AA males	count	289	296	291	267	272	268	261	233	208	211		
	pop	460,926	458,901	458,049	456,869	456,640	456,560	456,417	456,229	455,044	455,044		
	rate	62.7	64.5	63.5	58.4	59.6	58.7	57.2	51.1	45.7	46.4	-3.2%	(-4.6%, -1.8%)
Black/AA females	count	86	61	79	66	48	75	62	51	36	49		
	pop	538,879	537,218	536,103	535,151	534,403	534,816	535,185	535,673	535,085	535,085		
	rate	16.0	11.4	14.7	12.3	9.0	14.0	11.6	9.5	6.7	9.2	-4.8%	(-8.1%, -1.4%)
Latinx overall	count	17	16	19	32	28	32	24	27	17	26		
	pop	176,497	179,294	182,446	185,703	190,302	194,302	198,678	203,524	206,715	206,715		
	rate	9.6	8.9	10.4	17.2	14.7	16.5	12.1	13.3	8.2	12.6	No significant change	
Latinx males	count	11	15	18	25	26	25	21	27	16	24		
	pop	88,880	90,271	91,865	93,577	96,020	98,153	100,384	102,816	104,468	104,468		
	rate	12	17	20	27	27	26	21	26	15	23	No significant change	
Latinx females	count	6	1	1	7	2	7	3	0	1	2		
	pop	87,617	89,023	90,581	92,126	94,282	96,149	98,294	100,708	102,247	102,247		
	rate	6.8	1.1	1.1	7.6	2.1	7.3	3.1	0.0	1.0	2.0	No significant change	
White overall	count	133	112	114	103	131	130	112	109	77	112		
	pop	2,907,893	2,903,502	2,898,277	2,886,474	2,878,433	2,869,735	2,859,409	2,845,850	2,826,808	2,826,808		
	rate	5	4	4	4	5	5	4	4	3	4	No significant change	
White males	count	115	94	100	87	110	113	94	93	69	95		
	pop	1,428,335	1,427,377	1,426,235	1,421,601	1,418,707	1,415,992	1,411,468	1,405,524	1,396,232	1,396,232		
	rate	8.1	6.6	7.0	6.1	7.8	8.0	6.7	6.6	4.9	6.8	No significant change	
White females	count	18	18	14	16	21	17	18	16	8	17		
	pop	1,479,558	1,476,125	1,472,042	1,464,873	1,459,726	1,453,743	1,447,941	1,440,326	1,430,576	1,430,576		
	rate	1.2	1.2	1.0	1.1	1.4	1.2	1.2	1.1	0.6	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, Latinx, White, & Multi/Other are mutually exclusive categories. Persons with unknown race are not included: 1 in 2014, 2016, and 2021.

Measure		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Race by sex at birth , continued from previous page												
Multi/other overall	count	23	13	17	14	20	10	19	10	12	13	
	pop	184,758	192,822	200,965	208,167	217,931	226,677	233,131	236,491	238,717	238,717	
	rate	12.4	6.7	8.5	6.7	9.2	4.4	8.1	4.2	5.0	5.4	-7.8% (-13.3%, -1.9%)
Multi/other males	count	20	13	12	12	19	8	16	9	11	12	
	pop	90,229	94,301	98,577	102,395	107,917	112,746	116,329	118,153	119,200	119,200	
	rate	22.2	13.8	12.2	11.7	17.6	7.1	13.8	7.6	9.2	10.1	-7.7% (-13.6%, -1.4%)
Multi/other females	count	3	0	5	2	1	2	3	1	1	1	
	pop	94,529	98,521	102,388	105,772	110,014	113,931	116,802	118,338	119,517	119,517	
	rate	3.2	0.0	4.9	1.9	0.9	1.8	2.6	0.8	0.8	0.8	No significant change
Ethnicity and country of birth												
Arab/Mid E descent ¹	count	1	11	3	3	4	5	7	7	5	4	
	DMA %	0.2%	2.2%	0.6%	0.6%	0.8%	1.0%	1.5%	1.6%	1.4%	1.0%	No significant change
Foreign born ²	count	18	19	18	22	19	22	10	12	9	14	
	DMA %	3.3%	3.8%	3.5%	4.6%	3.8%	4.3%	2.1%	2.8%	2.6%	3.4%	No significant change
Age (yrs) at HIV diagnosis												
00-14	count	1	0	1	2	1	1	2	0	0	1	
	pop	815,788	808,181	800,782	791,673	785,622	780,959	776,306	770,058	762,726	762,726	
	rate	0.1	0.0	0.1	0.3	0.1	0.1	0.3	0.0	0.0	0.1	No significant change
15-19	count	48	44	25	27	38	34	34	34	17	18	
	pop	292,167	285,410	279,406	275,303	272,928	268,953	265,012	261,751	256,561	256,561	
	rate	16.4	15.4	8.9	9.8	13.9	12.6	12.8	13.0	6.6	7.0	-4.7% (-9.2%, -0.1%)
20-29	count	223	202	242	222	210	220	213	177	157	151	
	pop	531,840	543,403	554,851	561,488	567,913	573,339	574,752	570,877	558,923	558,923	
	rate	41.9	37.2	43.6	39.5	37.0	38.4	37.1	31.0	28.1	27.0	-4.0% (-5.7%, -2.3%)
30-39	count	99	93	104	86	91	104	108	120	87	120	
	pop	514,731	512,120	510,824	511,016	516,434	520,876	526,139	532,930	542,585	542,585	
	rate	19.2	18.2	20.4	16.8	17.6	20.0	20.5	22.5	16.0	22.1	No significant change
40-49	count	98	79	79	77	72	83	55	52	38	54	
	pop	615,513	601,633	586,517	571,993	558,506	548,105	539,567	530,361	519,424	519,424	
	rate	15.9	13.1	13.5	13.5	12.9	15.1	10.2	9.8	7.3	10.4	-4.4% (-5.7%, -0.7%)
50-59	count	57	57	58	54	71	55	43	37	38	47	
	pop	643,191	644,660	644,614	639,554	631,525	620,703	608,376	597,248	588,096	588,096	
	rate	8.9	8.8	9.0	8.4	11.2	8.9	7.1	6.2	6.5	8.0	No significant change
60+	count	22	23	12	14	17	18	23	10	13	21	
	pop	855,723	876,330	898,846	921,337	944,781	969,155	992,668	1,014,542	1,034,054	1,034,054	
	rate	2.6	2.6	1.3	1.5	1.8	1.9	2.3	1.0	1.3	2.0	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 the DMA.

	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
HIV transmission risk by gender¹												
Sex w men	count	390	350	406	342	375	380	346	324	228	257	
	DMA %	71.2%	70.3%	78.1%	71.1%	75.3%	74.5%	72.5%	75.9%	65.1%	62.5%	No significant change
Cis men	count	301	284	316	271	304	290	264	257	196	212	
	DMA %	54.9%	57.0%	60.8%	56.3%	61.0%	56.9%	55.3%	60.2%	56.0%	51.6%	No significant change
Cis women	count	75	58	79	61	57	79	72	55	22	38	
	DMA %	13.7%	11.6%	15.2%	12.7%	11.4%	15.5%	15.1%	12.9%	6.3%	9.2%	No significant change
Trans-gender	count	14	8	11	10	14	11	10	12	10	7	
	DMA %	2.6%	1.6%	2.1%	2.1%	2.8%	2.2%	2.1%	2.8%	2.9%	1.7%	No significant change
PWID	count	22	18	9	18	13	21	24	14	9	11	
	DMA %	4.0%	3.6%	1.7%	3.7%	2.6%	4.1%	5.0%	3.3%	2.6%	2.7%	No significant change
Cis men	count	13	8	6	7	4	6	16	8	4	4	
	DMA %	2.4%	1.6%	1.2%	1.5%	0.8%	1.2%	3.4%	1.9%	1.1%	1.0%	No significant change
Cis women	count	9	10	3	11	9	15	8	6	5	7	
	DMA %	1.6%	2.0%	0.6%	2.3%	1.8%	2.9%	1.7%	1.4%	1.4%	1.7%	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	14	10	15	8	16	13	13	8	13	12	
	DMA %	2.6%	2.0%	2.9%	1.7%	3.2%	2.5%	2.7%	1.9%	3.7%	2.9%	No significant change
Cis men	count	11	8	13	8	16	13	12	7	13	11	
	DMA %	2.0%	1.6%	2.5%	1.7%	3.2%	2.5%	2.5%	1.6%	3.7%	2.7%	No significant change
Trans-gender	count	3	2	2	0	0	0	1	1	0	1	
	DMA %	0.5%	0.4%	0.4%	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%	0.2%	No significant change
Sex w women	count	16	25	12	25	20	23	18	12	16	7	
	DMA %	2.9%	5.0%	2.3%	5.2%	4.0%	4.5%	3.8%	2.8%	4.6%	1.7%	No significant change
Cis men	count	16	25	12	25	20	23	18	12	16	7	
	DMA %	2.9%	5.0%	2.3%	5.2%	4.0%	4.5%	3.8%	2.8%	4.6%	1.7%	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	1	0	1	0	1	1	2	0	0	0	
	DMA %	0.2%	0.0%	0.2%	0.0%	0.2%	0.2%	0.4%	0.0%	0.0%	0.0%	No significant change
Cis men	count	1	0	1	0	0	0	1	0	0	0	
	DMA %	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	No significant change
Cis women	count	0	0	0	0	1	1	1	0	0	0	
	DMA %	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%	0.0%	0.0%	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	105	95	78	89	75	77	75	72	84	125	
	DMA %	19.2%	19.1%	15.0%	18.5%	15.1%	15.1%	15.7%	16.9%	24.0%	30.4%	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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Special populations												
Men who have sex with men (MSM) including MSM/PWID (persons who inject drugs)												
MSM	count	312	292	329	279	320	303	276	264	209	223	
	est pop	119,965	120,109	120,334	120,318	120,598	120,840	120,907	120,798	120,347	120,347	
	rate	260.1	243.1	273.4	231.9	265.3	250.7	228.3	218.5	173.7	185.3	-3.0% (-4.6%, -1.4%)
15-29 yr old	count	137	151	154	142	149	135	135	115	100	86	
Black/AA MSM (YBMSM)	est pop	6,469	6,490	6,518	6,528	6,524	6,485	6,414	6,312	6,102	6,102	
	rate	2,117.8	2,326.8	2,362.6	2,175.4	2,283.8	2,081.7	2,104.6	1,822.1	1,638.8	1,409.4	-3.8% (-5.8%, -1.8%)
Persons who inject drugs (PWID) including MSM/PWID												
PWID	count	36	28	24	26	29	34	37	22	22	23	
	DMA %	6.6%	5.6%	4.6%	5.4%	5.8%	6.7%	7.8%	5.2%	6.3%	5.6%	No significant change
15-29 yr old	count	8	12	15	9	8	15	12	7	12	6	
PWID	DMA %	1.5%	2.4%	2.9%	1.9%	1.6%	2.9%	2.5%	1.6%	3.4%	1.5%	No significant change
Young (15-29) Black/AA men compared to others												
15-29 yr old	count	162	174	175	165	170	166	161	131	116	102	
Black/AA men (YBM)	pop	111,533	111,890	112,385	112,545	112,486	111,812	110,593	108,819	105,207	105,207	
	rate	145.2	155.5	155.7	146.6	151.1	148.5	145.6	120.4	110.3	97.0	-3.7% (-5.6%, -1.7%)
Other youth 15-29	count	109	72	92	84	78	88	86	80	58	67	
	pop	712,474	716,923	721,872	724,246	728,355	730,480	729,171	723,809	710,277	710,277	
	rate	15.3	10.0	12.7	11.6	10.7	12.0	11.8	11.1	8.2	9.4	-3.0% (-5.5%, -0.4%)
30+ yrs old	count	276	252	253	231	251	260	229	219	176	242	
	pop	2,629,158	2,634,743	2,640,801	2,643,900	2,651,246	2,658,839	2,666,750	2,675,081	2,684,159	2,684,159	
	rate	10.5	9.6	9.6	8.7	9.5	9.8	8.6	8.2	6.6	9.0	-1.7% (-3.2%, -0.3%)

Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% 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	302	246	311	269	313	326	285	266	146	192	
HIV negative	DMA %	55.1%	49.4%	59.8%	55.9%	62.9%	63.9%	59.7%	62.3%	41.7%	46.7%	No significant change
Negative test w/in 2yrs of diagnosis												
	count	240	179	240	220	224	232	185	184	102	146	
	DMA %	43.8%	35.9%	46.2%	45.7%	45.0%	45.5%	38.8%	43.1%	29.1%	35.5%	No significant change

The proportion of persons newly diagnosed with HIV who had ever tested negative appeared to drop drastically during 2020. This is likely a reflection of a decline in negative tests reported rather than a true decline in lifetime HIV testing.

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			80	90	115	83	86	53	71		
	DMA %			16.6%	18.1%	22.5%	17.4%	20.1%	15.1%	17.3%		No significant change
Late diagnosis	count	109	119	116	100	114	89	99	89	54	75	
	DMA %	19.9%	23.9%	22.3%	20.8%	22.9%	17.5%	20.8%	20.8%	15.4%	18.2%	No significant change

Facility of diagnosis. The proportion of persons newly diagnosed at blood/plasma centers, HIV/ID Clinics, and LHD's were stable. Diagnoses at ER's, and outpatient care facilities significantly increased while the proportion diagnosed at Community Based Organizations (CBO's), and inpatient facilities significantly decreased. The increase at ER's is due to hospitals implementing opt-out HIV testing. Not all facility types are displayed below.												
Blood/Plasma center	count	27	26	16	14	19	28	35	35	19	8	
	DMA %	4.9%	5.2%	3.1%	2.9%	3.8%	5.5%	7.3%	8.2%	5.4%	1.9%	No significant change
CBO	count	82	58	57	60	45	68	31	40	13	24	
	DMA %	15.0%	11.6%	11.0%	12.5%	9.0%	13.3%	6.5%	9.4%	3.7%	5.8%	-7.7% (-11.7%, -3.5%)
ER	count	49	35	37	42	52	54	45	52	50	46	
	DMA %	8.9%	7.0%	7.1%	8.7%	10.4%	10.6%	9.4%	12.2%	14.3%	11.2%	+5.0% (1.4%, 8.8%)
Local Health Department	count	69	84	75	57	68	65	53	70	42	53	
	DMA %	12.6%	16.9%	14.4%	11.9%	13.7%	12.7%	11.1%	16.4%	12.0%	12.9%	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	225	195	217	200	224	246	220	196	172	210	
	DMA %	41.1%	39.2%	41.7%	41.6%	45.0%	48.2%	46.1%	45.9%	49.1%	51.1%	+2.7% (1.0%, 4.4%)
8-90 day linkage	count	384	351	367	359	382	429	373	342	271	337	
	DMA %	70.1%	70.5%	70.6%	74.6%	76.7%	84.1%	78.2%	80.1%	77.4%	82.0%	+2.1% (0.8%, 3.4%)
VS in 6mo of diagnosis	count	169	166	226	245	295	344	318	312	239	301	
	DMA %	30.8%	33.3%	43.5%	50.9%	59.2%	67.5%	66.7%	73.1%	68.3%	73.2%	+10.9% (7.9%, 14.0%)
VS in 12mo of diagnosis	count	262	269	326	340	372	404	369	352	273	328	
	DMA %	47.8%	54.0%	62.7%	70.7%	74.7%	79.2%	77.4%	82.4%	78.0%	79.8%	+5.9% (3.8%, 8.0%)

Linkage and VS indicators have improved across the majority of geographic and demographic groups statewide.



Detroit LHD Jurisdiction, 2012 - 2021

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

Includes persons in prisons located in the Detroit LHD Jurisdiction

New Detroit LHD HIV diagnoses 2012 - 2021: Geographic Stratification (last reported address each year)

Region	Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Detroit LHD	count	286	265	263	248	267	239	236	207	177	191	
Jurisdiction ¹	pop	812,311	796,613	784,791	779,098	771,883	768,073	765,192	762,454	759,542	759,542	
	rate	35.2	33.3	33.5	31.8	34.6	31.1	30.8	27.1	23.3	25.1	-3.4% (-4.7%, -1.7%)
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	272	254	252	237	253	227	224	197	170	181	
	pop	700,289	691,986	682,746	679,562	677,379	675,031	673,658	670,442	665,369	665,369	
	rate	38.8	36.7	36.9	34.9	37.3	33.6	33.3	29.4	25.5	27.2	-3.5% (-5.0%, -2.0%)
Highland Park	count	6	6	4	6	10	7	8	5	5	6	
	pop	11,143	11,052	11,030	10,974	10,921	10,876	10,828	10,787	10,712	10,712	
	rate	53.8	54.3	36.3	54.7	91.6	64.4	73.9	46.4	46.7	56	No significant change

New Detroit LHD HIV diagnoses 2012 - 2021: Demographic Stratification

Sex at birth

Male	count	216	221	213	201	225	186	191	172	150	143	
	pop	384,326	378,558	373,405	370,525	366,478	364,829	363,243	363,201	361,504	361,504	
	rate	56.2	58.4	57.0	54.2	61.4	51.0	52.6	47.4	41.5	39.6	-3.4% (-5.1%, -1.6%)
Female	count	70	44	51	48	43	55	46	36	27	48	
	pop	427,985	418,055	411,386	408,573	405,405	403,244	401,949	399,253	398,038	398,038	
	rate	16.4	10.5	12.4	11.7	10.6	13.6	11.4	9.0	6.8	12.1	No significant change

Trans-gender ³	count	12	7	4	7	9	7	6	10	7	3	
	DLHD %	4.2%	2.6%	1.5%	2.8%	3.4%	2.9%	2.5%	4.8%	4.0%	1.6%	No significant change

Race by sex at birth

Black/AA overall	count	258	242	237	225	228	214	211	185	154	169	
	pop	612,939	596,667	583,126	574,044	566,144	559,462	553,453	549,177	536,457	536,457	
	rate	42.1	40.6	40.6	39.2	40.3	38.3	38.1	33.7	28.7	31.5	-2.8% (-4.4%, -1.2)
Black/AA males	count	195	203	190	182	191	164	170	152	132	128	
	pop	283,972	277,335	271,041	266,719	262,445	259,169	256,575	254,192	247,614	247,614	
	rate	68.7	73.2	70.1	68.2	72.8	63.3	66.3	59.8	53.3	51.7	-2.9% (-4.6%, -1.1%)
Black/AA females	count	63	39	47	43	37	50	41	33	22	41	
	pop	328,965	319,328	312,086	307,328	303,695	300,294	296,888	294,988	288,841	288,841	
	rate	19.2	12.2	15.1	14.0	12.2	16.7	13.8	11.2	7.6	14.2	No significant change

Race by sex at birth continued on next page

¹Detroit LHD includes the cities of Detroit, Hamtramck, Harper Woods, Highland Park, & 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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Race by sex at birth¹ (continued from previous page)												
Latinx overall	count	6	8	7	8	14	9	9	9	5	7	
	pop	50,937	51,712	52,482	54,568	52,752	53,004	52,841	53,215	53,635	53,635	
	rate	11.8	15.5	13.3	14.7	26.5	17.0	17.0	16.9	9.3	13.1	No significant change
Latinx males	count	2	8	7	6	13	7	7	9	4	6	
	pop	26,227	26,352	26,713	27,536	26,781	27,009	26,951	27,486	27,668	27,668	
	rate	7.6	30.4	26.2	21.8	48.5	25.9	26.0	32.7	14.5	21.7	No significant change
Latinx females	count	4	0	0	2	1	2	2	0	1	1	
	pop	24,710	25,360	25,769	27,032	25,971	25,995	25,890	25,729	25,967	25,967	
	rate	16.2	0.0	0.0	7.4	3.9	7.7	7.7	0.0	3.9	3.9	No significant change
White overall	count	15	12	16	11	17	15	13	10	11	13	
	pop	118,546	116,570	117,108	117,952	118,936	120,904	122,650	124,218	127,330	127,330	
	rate	12.7	10.3	13.7	9.3	14.3	12.4	10.6	8.1	8.6	10.2	No significant change
White males	count	12	7	12	9	13	13	10	7	8	8	
	pop	59,349	59,052	59,675	60,224	60,534	61,794	62,387	63,976	65,629	65,629	
	rate	20.2	11.9	20.1	14.9	21.5	21.0	16.0	10.9	12.2	12.2	No significant change
White females	count	3	5	4	2	4	2	3	3	3	5	
	pop	59,197	57,518	57,433	57,728	58,402	59,110	60,263	60,242	61,701	61,701	
	rate	5.1	8.7	7.0	3.5	6.8	3.4	5.0	5.0	4.9	8.1	No significant change
Multi/other overall	count	7	3	4	5	8	3	4	4	7	2	
	pop	29,891	31,668	32,074	32,531	34,055	34,702	36,238	35,841	42,122	42,122	
	rate	23.4	9.5	12.5	15.4	23.5	8.6	11.0	11.2	16.6	4.7	No significant change
Multi/other males	count	7	3	4	4	7	2	4	4	6	1	
	pop	14,778	15,819	15,976	16,046	16,718	16,857	17,330	17,547	20,593	20,593	
	rate	47.4	19.0	25.0	24.9	41.9	11.9	23.1	22.8	29.1	4.9	-11.9% (-22.1%, -0.4%)
Multi/other females	count	0	0	0	1	1	1	0	0	1	1	
	pop	15,113	15,849	16,098	16,485	17,337	17,845	18,908	18,294	21,529	21,529	
	rate	0.0	0.0	0.0	6.1	5.8	5.6	0.0	0.0	4.6	4.6	No significant change

Ethnicity and country of birth

Arab/Mid E descent ²	count	1	3	1	0	1	1	0	1	1	2	
	DLHD %	0.4%	1.1%	0.4%	0.0%	0.4%	0.4%	0.0%	0.5%	0.6%	1.0%	No significant change
Foreign born ³	count	7	3	4	3	5	3	0	2	1	5	
	DLHD %	2.4%	1.1%	1.5%	1.2%	1.9%	1.3%	0.0%	1.0%	0.6%	2.6%	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: 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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
HIV transmission risk by gender¹												
Sex w men	count	182	183	203	174	202	179	172	158	108	114	
	DLHD %	63.6%	69.1%	77.2%	70.2%	75.7%	74.9%	72.9%	76.3%	61.0%	59.7%	No significant change
Cis men	count	129	147	161	135	157	127	125	120	91	84	
	DLHD %	45.1%	55.5%	61.2%	54.4%	58.8%	53.1%	53.0%	58.0%	51.4%	44.0%	No significant change
Cis women	count	44	30	38	32	37	45	41	28	10	28	
	DLHD %	15.4%	11.3%	14.4%	12.9%	13.9%	18.8%	17.4%	13.5%	5.7%	14.7%	No significant change
Trans-gender	count	9	6	4	7	8	7	6	10	7	2	
	DLHD %	3.1%	2.3%	1.5%	2.8%	3.0%	2.9%	2.5%	4.8%	4.0%	1.1%	No significant change
PWID	count	15	9	7	8	5	9	11	4	4	5	
	DLHD %	5.2%	3.4%	2.7%	3.2%	1.9%	3.8%	4.7%	1.9%	2.3%	2.6%	No significant change
Cis men	count	9	3	5	3	3	3	8	2	1	2	
	DLHD %	3.1%	1.1%	1.9%	1.2%	1.1%	1.3%	3.4%	1.0%	0.6%	1.1%	No significant change
Cis women	count	6	6	2	5	2	6	3	2	3	3	
	DLHD %	2.1%	2.3%	0.8%	2.0%	0.7%	2.5%	1.3%	1.0%	1.7%	1.6%	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
Sex w men/PWID	count	5	3	7	3	8	5	6	1	2	5	
	DLHD %	1.7%	1.1%	2.7%	1.2%	3.0%	2.1%	2.5%	0.5%	1.1%	2.6%	No significant change
Cis men	count	3	2	7	3	8	5	6	1	2	4	
	DLHD %	1.0%	0.8%	2.7%	1.2%	3.0%	2.1%	2.5%	0.5%	1.1%	2.1%	No significant change
Trans-gender	count	2	1	0	0	0	0	0	0	0	1	
	DLHD %	0.7%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	No significant change
Sex w women	count	7	10	5	15	13	12	6	6	13	3	
	DLHD %	2.4%	3.8%	1.9%	6.0%	4.9%	5.0%	2.5%	2.9%	7.3%	1.6%	No significant change
Cis men	count	7	10	5	15	13	12	6	6	13	3	
	DLHD %	2.4%	3.8%	1.9%	6.0%	4.9%	5.0%	2.5%	2.9%	7.3%	1.6%	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	0	1	0	1	0	0	0	0	0	
	DLHD %	0.3%	0.0%	0.4%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Cis men	count	1	0	1	0	0	0	0	0	0	0	
	DLHD %	0.3%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Cis women	count	0	0	0	0	1	0	0	0	0	0	
	DLHD %	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	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	76	60	41	49	39	36	42	39	50	64	
	DLHD %	26.6%	22.6%	15.6%	19.8%	14.6%	15.1%	17.8%	18.8%	28.2%	33.5%	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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% change (95CI)
Special populations												
Men who have sex with men (MSM) including MSM/PWID (persons who inject drugs)												
MSM	count	132	149	168	138	165	132	131	121	93	88	
	est pop	22,291	21,956	21,657	21,490	21,256	21,160	21,068	21,066	20,967	20,967	
	rate	592.2	678.6	775.7	642.1	776.3	623.8	621.8	574.4	443.5	419.7	-3.7% (-6.8%, 0.5%)
15-29 yr old	count	91	97	103	90	97	80	81	73	58	44	
Black/AA MSM (YBMSM)	est pop	3,926	3,843	3,755	3,685	3,694	3,603	3,572	3,507	3,349	3,349	
	rate	2,318.2	2,524.2	2,742.8	2,442.5	2,626.0	2,220.4	2,267.4	2,081.5	1,732.1	1,314.0	-4.6% (-7.4%, 1.8%)
Persons who inject drugs (PWID) including MSM/PWID												
PWID	count	20	12	14	11	13	14	17	5	6	10	
	DLHD %	7.0%	4.5%	5.3%	4.4%	4.9%	5.9%	7.2%	2.4%	3.4%	5.2%	No significant change
15-29 yr old	count	5	3	7	3	4	5	6	1	2	3	
PWID	DLHD %	1.7%	1.1%	2.7%	1.2%	1.5%	2.1%	2.5%	0.5%	1.1%	1.6%	No significant change
Young (15-29) Black/AA men compared to others												
15-29 yr old	count	111	113	118	105	111	100	103	85	69	54	
Black/AA men (YBM)	pop	67,681	66,255	64,746	63,531	63,686	62,119	61,592	60,468	57,734	57,734	
	rate	164.0	170.6	182.3	165.3	174.3	161.0	167.2	140.6	119.5	93.5	-4.2% (-6.8%, 01.6%)
Other youth 15-29	count	43	30	32	31	29	27	38	35	22	23	
	pop	114,002	112,960	112,326	112,497	113,429	114,130	114,123	114,313	115,303	115,303	
	rate	37.7	26.6	28.5	27.6	25.6	23.7	33.3	30.6	19.1	19.9	No significant change
30+ yrs old	count	131	122	113	112	127	114	96	88	86	113	
	pop	455,037	447,412	442,044	439,495	432,412	429,937	429,008	428,201	427,190	427,190	
	rate	28.8	27.3	25.6	25.5	29.4	26.5	22.4	20.6	20.1	26.5	No significant change

Measure	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	% 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	149	137	164	143	185	160	163	148	85	93	
HIV negative	DLHD %	52.1%	51.7%	62.4%	57.7%	69.3%	66.9%	69.1%	71.5%	48.0%	48.7%	No significant change
Negative test w/in 2yrs of diagnosis												
	count	111	103	130	117	133	116	109	104	55	60	
	DLHD %	38.8%	38.9%	49.4%	47.2%	49.8%	48.5%	46.2%	50.2%	31.1%	31.4%	No significant change

The proportion of persons newly diagnosed with HIV who had ever tested negative appeared to drop drastically during 2020. This is likely a reflection of a decline in negative tests reported rather than a true decline in lifetime HIV testing.

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			36	55	62	55	50	32	34		
	DLHD %			14.5%	20.6%	25.9%	23.3%	24.2%	18.1%	17.8%		No significant change
Late diagnosis	count	56	62	54	52	55	33	39	35	16	34	
	DLHD %	19.6%	23.4%	20.5%	21.0%	20.6%	13.8%	16.5%	16.9%	9.0%	17.8%	No significant change

Facility of diagnosis. The proportion of persons newly diagnosed at blood/plasma centers, HIV/ID Clinics, and LHD's were stable. Diagnoses at ER's, and outpatient care facilities significantly increased while the proportion diagnosed at Community Based Organizations (CBO's), and inpatient facilities significantly decreased. The increase at ER's is due to hospitals implementing opt-out HIV testing. Not all facility types are displayed below.												
Blood/Plasma center	count	18	17	8	8	12	12	21	17	12	3	
	DLHD %	6.3%	6.4%	3.0%	3.2%	4.5%	5.0%	8.9%	8.2%	6.8%	1.6%	No significant change
CBO	count	55	40	40	40	31	46	24	25	9	12	
	DLHD %	19.2%	15.1%	15.2%	16.1%	11.6%	19.2%	10.2%	12.1%	5.1%	6.3%	-7.6% (-12.0%, -3.0%)
ER	count	39	29	31	26	40	40	37	40	37	37	
	DLHD %	13.6%	10.9%	11.8%	10.5%	15.0%	16.7%	15.7%	19.3%	20.9%	19.4%	+6.5% (2.4%, 10.9%)
Local Health Department	count	32	47	31	20	28	24	26	38	21	20	
	DLHD %	11.2%	17.7%	11.8%	8.1%	10.5%	10.0%	11.0%	18.4%	11.9%	10.5%	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	95	91	109	91	115	100	103	83	79	97	
	DLHD %	33.2%	34.3%	41.4%	36.7%	43.1%	41.8%	43.6%	40.1%	44.6%	50.8%	+3.9% (-1.4%, 6.4%)
8-90 day linkage	count	178	177	179	175	195	189	183	155	127	155	
	DLHD %	62.2%	66.8%	68.1%	70.6%	73.0%	79.1%	77.5%	74.9%	71.8%	81.2%	+2.8% (1.0%, 4.7%)
VS in 6mo of diagnosis	count	81	89	97	109	149	144	147	146	109	132	
	DLHD %	28.3%	33.6%	36.9%	44.0%	55.8%	60.3%	62.3%	70.5%	61.6%	69.1%	+11.1% (8.4%, 14.0%)
VS in 12mo of diagnosis	count	126	141	149	159	192	176	174	165	126	148	
	DLHD %	44.1%	53.2%	56.7%	64.1%	71.9%	73.6%	73.7%	79.7%	71.2%	77.5%	+6.3% (4.3%, 8.4%)

Linkage and VS indicators have improved across the majority of geographic and demographic groups statewide.