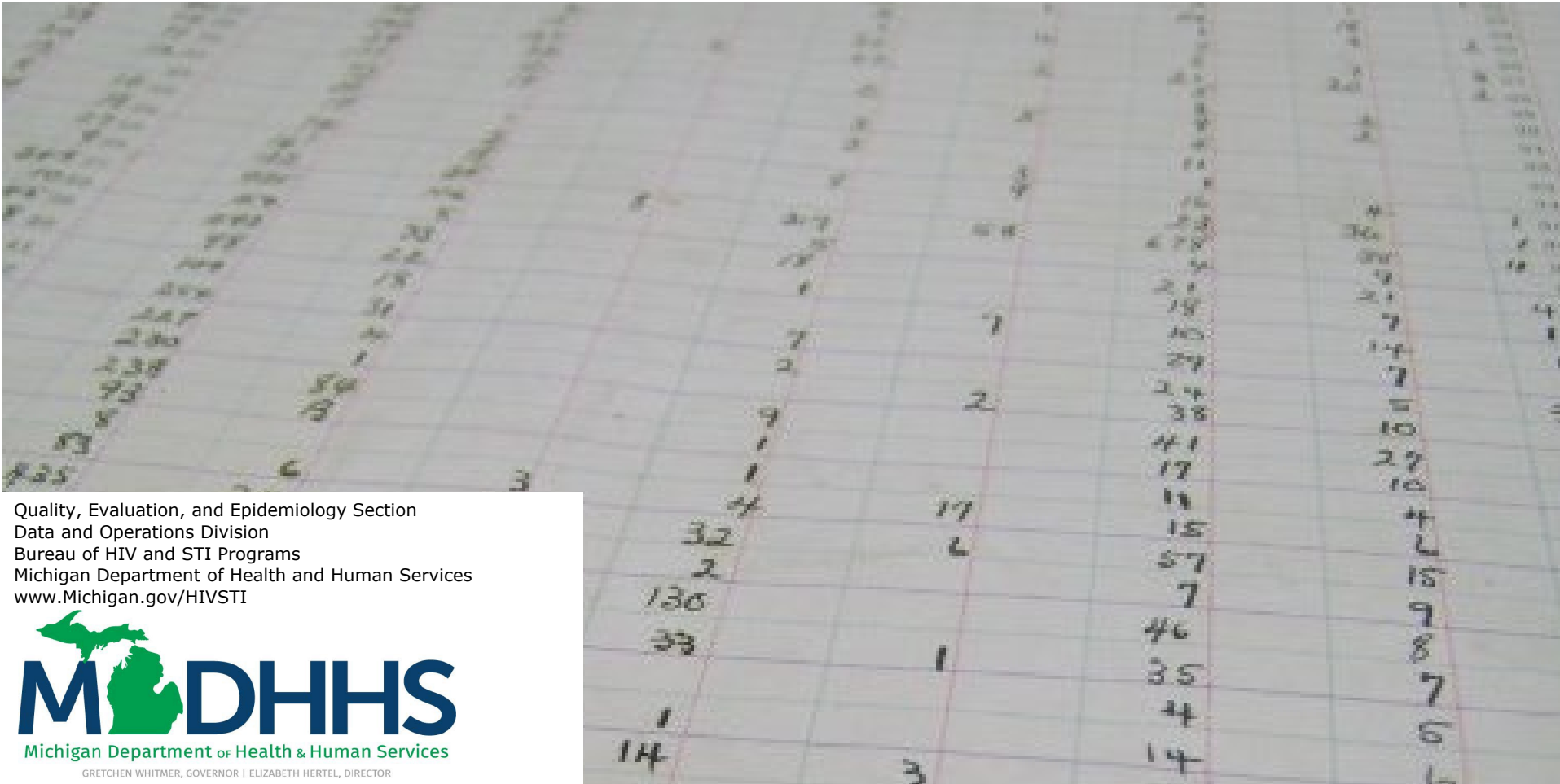




HIV Trends Report, New diagnoses 2013-2022

Data as of July, 2023



Quality, Evaluation, and Epidemiology Section
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Michigan Department of Health and Human Services
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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 and 2022, 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 and 2022 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, 2013 - 2022

Persons living in Michigan at time of HIV diagnosis

New Michigan HIV diagnoses 2013 - 2022: Geographic Stratification (last reported address each year)

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Michigan	count	749	782	722	738	766	709	668	520	644	634	
	pop	9,914,802	9,932,033	9,934,483	9,954,117	9,976,752	9,987,286	9,984,795	10,069,577	10,037,504	10,034,113	
	rate	7.6	7.9	7.3	7.4	7.7	7.1	6.7	5.2	6.4	6.3	-2.3% (-3.1%, -1.4%)
DMA ¹	count	501	522	484	501	510	477	429	352	410	392	
	pop	4,271,737	4,275,840	4,272,364	4,277,709	4,282,090	4,282,820	4,277,767	4,345,558	4,327,065	4,305,209	
	rate	11.7	12.2	11.3	11.7	11.9	11.1	10.0	8.1	9.5	9.1	-3.0% (-4.1%, -2.0%)
Outstate ²	count	237	252	227	227	247	219	229	165	222	227	
	pop	5,643,065	5,656,193	5,662,119	5,676,408	5,694,662	5,704,466	5,707,028	5,724,019	5,710,439	5,728,904	
	rate	4.2	4.5	4.0	4.0	4.3	3.8	4.0	2.9	3.9	4.0	No significant change
Prison ³	count	11	8	11	10	9	13	10	3	12	15	
	MI %	1.5%	1.0%	1.5%	1.4%	1.2%	1.8%	1.5%	0.6%	1.9%	2.4%	No significant change

Local Health Department (LHD) Jurisdiction

Allegan Co.	count	1	1	4	2	7	3	3	2	2	8	
	pop	112,020	113,361	114,122	115,018	116,393	117,137	118,045	120,647	121,010	121,210	
	rate	0.9	0.9	3.5	1.7	6.0	2.6	2.5	1.7	1.7	6.6	No significant change
Barry-Eaton	count	6	8	3	4	3	5	4	2	8	5	
	pop	167,382	167,973	168,135	169,021	170,168	170,879	171,600	171,774	172,200	172,546	
	rate	3.6	4.8	1.8	2.4	1.8	2.9	2.3	1.2	4.6	2.9	No significant change
Berrien Co.	count	16	10	6	5	9	3	2	5	10	6	
	pop	156,205	156,074	155,136	154,451	154,264	153,892	153,352	154,183	153,377	152,900	
	rate	10.2	6.4	3.9	3.2	5.8	1.9	1.3	3.2	6.5	3.9	No significant change
Branch-Hillsdale-St. Joseph	count	3	5	2	1	2	5	2	1	5	6	
	pop	150,707	150,684	150,338	150,001	149,879	149,991	149,818	151,532	151,661	151,167	
	rate	2.0	3.3	1.3	0.7	1.3	3.3	1.3	0.7	3.3	4.0	No significant change
Calhoun Co.	count	8	8	6	6	3	9	11	5	10	8	
	pop	134,782	134,845	134,377	134,343	134,127	133,858	133,806	134,184	133,878	133,289	
	rate	5.9	5.9	4.5	4.5	2.2	6.7	8.2	3.7	7.5	6.0	No significant change
Central Michigan ⁴	count	21	20	19	15	20	20	27	19	18	26	
	pop	1,199,754	1,199,014	1,198,249	1,198,503	1,201,391	1,204,044	1,204,708	1,204,699	1,210,927	1,216,334	
	rate	1.8	1.7	1.6	1.3	1.7	1.7	2.2	1.6	1.5	2.1	No significant change
Detroit LHD ⁵	count	262	263	246	257	234	229	203	175	182	186	
	pop	796,613	784,791	779,098	771,883	768,073	765,192	762,454	759,542	741,293	741,293	
	rate	32.9	33.5	31.6	33.3	30.5	29.9	26.6	23.0	24.6	25.1	-3.6% (-5.0%, -2.1%)
Genesee Co.	count	24	20	27	35	33	30	30	22	32	21	
	pop	415,713	412,950	410,574	409,054	407,673	406,626	405,702	405,757	404,662	401,983	
	rate	5.8	4.8	6.6	8.6	8.1	7.4	7.4	5.4	7.9	5.2	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 2013 - 2022: Geographic Stratification (last reported address each year)

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Local Health Department (LHD) Jurisdiction, continued from previous page												
Ingham Co.	count	19	26	19	27	26	15	17	21	23	18	
	pop	284,226	285,760	287,255	289,633	291,678	291,267	291,426	284,640	271,427	284,108	
	rate	6.7	9.1	6.6	9.3	8.9	5.1	5.8	7.4	8.5	6.3	No significant change
Ionia Co.	count	2	2	2	0	2	2	1	1	1	1	
	pop	64,001	64,246	64,073	64,215	64,293	64,290	64,654	66,855	66,797	66,809	
	rate	3.1	3.1	3.1	0	3.1	3.1	1.5	1.5	1.5	1.5	No significant change
Jackson Co.	count	7	14	8	6	10	0	4	1	7	4	
	pop	159,672	159,464	159,325	158,345	158,653	158,594	158,357	160,225	160,266	160,066	
	rate	4.4	8.8	5	3.8	6.3	0	2.5	0.6	4.4	2.5	No significant change
Kalamazoo Co.	count	12	19	18	11	18	16	27	20	16	21	
	pop	257,399	259,063	259,816	261,584	263,387	265,120	265,531	261,767	260,688	261,173	
	rate	4.7	7.3	6.9	4.2	6.8	6	10.2	7.6	6.1	8	No significant change
Kent Co.	count	41	52	42	47	46	39	41	33	38	37	
	pop	624,409	631,464	637,333	644,219	649,722	653,636	656,800	658,460	659,000	659,083	
	rate	6.6	8.2	6.6	7.3	7.1	6	6.2	5	5.8	5.6	No significant change
Lapeer Co.	count	1	0	1	3	3	4	2	2	1	2	
	pop	88,299	88,202	88,376	88,227	88,218	87,987	87,808	88,572	88,686	88,780	
	rate	1.1	0	1.1	3.4	3.4	4.5	2.3	2.3	1.1	2.3	No significant change
Lenawee Co.	count	2	3	2	2	4	8	2	0	3	2	
	pop	98,850	98,774	98,432	98,595	98,511	98,118	98,519	99,320	99,202	98,567	
	rate	2	3	2	2	4.1	8.2	2	0	3	2	No significant change
Livingston Co.	count	6	2	6	3	3	3	7	2	1	5	
	pop	184,238	185,567	187,221	188,585	189,923	191,259	192,058	193,971	195,277	196,161	
	rate	3.3	1.1	3.2	1.6	1.6	1.6	3.6	1	0.5	2.5	No significant change
Macomb Co.	count	54	50	62	54	70	76	55	47	60	60	
	pop	857,146	862,914	865,031	868,329	870,867	872,089	872,389	880,176	877,385	874,195	
	rate	6.3	5.8	7.2	6.2	8	8.7	6.3	5.3	6.8	6.9	No significant change
Marquette ¹	count	3	1	6	4	7	2	6	2	4	4	
	pop	309,438	307,627	305,439	302,850	302,009	300,680	298,836	301,276	300,344	301,397	
	rate	1	0.3	2	1.3	2.3	0.7	2	0.7	1.3	1.3	No significant change
Monroe Co.	count	3	4	6	3	4	9	4	4	10	3	
	pop	150,193	149,919	149,439	149,278	149,523	150,218	150,412	154,893	155,646	155,609	
	rate	2	2.7	4	2	2.7	6	2.7	2.6	6.4	1.9	No significant change
Muskegon Co.	count	6	8	6	5	4	9	4	5	6	13	
	pop	172,312	172,304	172,506	173,342	173,804	173,719	173,645	175,848	176,612	176,565	
	rate	3.5	4.6	3.5	2.9	2.3	5.2	2.3	2.8	3.4	7.4	No significant change
Oakland Co.	count	104	104	84	97	105	86	77	60	80	75	
	pop	1,235,656	1,243,076	1,244,895	1,251,563	1,256,478	1,257,472	1,257,726	1,272,413	1,271,891	1,269,431	
	rate	8.4	8.4	6.7	7.8	8.4	6.8	6.1	4.7	6.3	5.9	-3.8% (-6.1%, -1.4%)

LHD Jurisdictions continued on next page

¹Marquette LHD includes the entire upper peninsula

New Michigan HIV diagnoses 2013 - 2022: Geographic Stratification (last reported address each year)

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Local Health Department (LHD) Jurisdiction, continued from previous page												
Ottawa Co.	count	4	7	8	3	11	7	9	0	7	13	
	pop	274,394	277,888	280,907	283,686	286,452	289,578	291,460	296,889	298,317	300,873	
	rate	1.5	2.5	2.8	1.1	3.8	2.4	3.1	0	2.3	4.3	No significant change
Saginaw Co.	count	18	12	6	19	19	9	5	5	6	7	
	pop	196,859	195,317	193,384	192,636	192,002	190,841	190,484	189,860	189,590	188,330	
	rate	9.1	6.1	3.1	9.9	9.9	4.7	2.6	2.6	3.2	3.7	-9.7% (-18.1%, -0.4%)
Shiawassee Co.	count	0	4	3	0	0	1	2	0	1	2	
	pop	68,927	68,841	68,538	68,589	68,422	68,064	68,065	68,006	67,998	68,022	
	rate	0	5.8	4.4	0	0	1.5	2.9	0	1.5	2.9	No significant change
St. Clair Co.	count	5	1	6	9	4	5	6	11	2	6	
	pop	160,312	160,103	159,757	159,477	159,130	159,186	159,339	160,375	160,384	160,151	
	rate	3.1	0.6	3.8	5.6	2.5	3.1	3.8	6.9	1.2	3.7	No significant change
The Thumb ¹	count	2	1	1	1	1	1	1	2	1	1	
	pop	128,367	127,618	126,947	126,169	125,378	125,118	124,479	125,183	125,004	124,850	
	rate	1.6	0.8	0.8	0.8	0.8	0.8	0.8	1.6	0.8	0.8	No significant change
Van Buren-Cass	count	3	3	2	3	2	4	1	3	2	5	
	pop	126,936	126,836	126,457	126,609	126,830	127,207	127,441	127,126	127,204	127,095	
	rate	2.4	2.4	1.6	2.4	1.6	3.1	0.8	2.4	1.6	3.9	No significant change
Washtenaw Co.	count	33	26	31	28	17	28	23	14	21	14	
	pop	356,474	360,523	363,555	366,960	369,703	370,548	368,242	371,817	364,998	366,376	
	rate	9.3	7.2	8.5	7.6	4.6	7.6	6.2	3.8	5.8	3.8	-6.8% (-11.1%, -2.3%)
Wayne Co. (excl Detroit LHD)	count	72	100	79	78	90	68	82	53	75	60	
	pop	983,518	986,835	985,768	988,952	989,801	990,676	987,639	1,029,587	1,031,780	1,015,750	
	rate	7.3	10.1	8	7.9	9.1	6.9	8.3	5.1	7.3	5.9	-2.9% (-5.6%, -0.2%)

¹The Thumb includes Huron, Sanilac & Tuscola Counties

New Michigan HIV diagnoses 2013 - 2022: Geographic Stratification (last reported address each year)

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Metropolitan Statistical Areas (MSA's)¹												
Ann Arbor	count	33	26	31	28	17	28	23	14	21	14	
	pop	356,474	360,523	363,555	366,960	369,703	370,548	368,242	371,817	364,998	366,376	
	rate	9.3	7.2	8.5	7.6	4.6	7.6	6.2	3.8	5.8	3.8	-6.8% (-11.1%, -2.3%)
Battle Creek	count	8	8	6	6	3	9	11	5	10	8	
	pop	134,782	134,845	134,377	134,343	134,127	133,858	133,806	134,184	133,878	133,289	
	rate	5.9	5.9	4.5	4.5	2.2	6.7	8.2	3.7	7.5	6.0	No significant change
Bay City	count	2	2	1	5	7	6	3	3	1	2	
	pop	106,817	106,073	105,271	104,421	104,085	103,674	102,964	103,733	103,251	102,821	
	rate	1.9	1.9	0.9	4.8	6.7	5.8	2.9	2.9	1.0	1.9	No significant change
Detroit-Warren-Dearborn	count	504	520	484	501	509	471	432	350	401	394	
	pop	4,305,782	4,311,488	4,310,146	4,317,016	4,322,490	4,323,861	4,319,413	4,384,636	4,366,696	4,345,761	
	rate	11.7	12.1	11.2	11.6	11.8	10.9	10.0	8.0	9.2	9.1	-3.1% (-4.2%, -2.1%)
Flint	count	24	20	27	35	33	30	30	22	32	21	
	pop	415,713	412,950	410,574	409,054	407,673	406,626	405,702	405,757	404,662	401,983	
	rate	5.8	4.8	6.6	8.6	8.1	7.4	7.4	5.4	7.9	5.2	No significant change
Grand Rapids-Wyoming	count	48	66	51	50	59	48	52	36	48	52	
	pop	1,020,698	1,031,471	1,040,452	1,050,694	1,060,416	1,068,263	1,073,449	1,084,595	1,087,945	1,090,943	
	rate	4.7	6.4	4.9	4.8	5.6	4.5	4.8	3.3	4.4	4.8	No significant change
Jackson	count	7	14	8	6	10	0	4	1	7	4	
	pop	159,672	159,464	159,325	158,345	158,653	158,594	158,357	160,225	160,266	160,066	
	rate	4.4	8.8	5.0	3.8	6.3	0.0	2.5	0.6	4.4	2.5	No significant change
Kalamazoo-Portage	count	14	21	20	14	19	17	27	21	17	24	
	pop	332,734	334,314	334,903	336,867	338,683	340,554	341,125	337,343	336,391	336,865	
	rate	4.2	6.3	6.0	4.2	5.6	5.0	7.9	6.2	5.1	7.1	No significant change
Lansing-E Lansing	count	24	32	25	35	27	20	20	24	31	22	
	pop	469,335	471,401	472,993	476,492	479,707	480,180	481,160	472,973	459,956	472,848	
	rate	5.1	6.8	5.3	7.3	5.6	4.2	4.2	5.1	6.7	4.7	No significant change
Midland	count	2	0	2	0	2	0	2	0	0	2	
	pop	83,683	83,534	83,706	83,485	83,442	83,447	83,412	83,481	83,426	83,674	
	rate	2.4	0.0	2.4	0.0	2.4	0.0	2.4	0.0	0.0	2.4	No significant change
Monroe	count	3	4	6	3	4	9	4	4	10	3	
	pop	150,193	149,919	149,439	149,278	149,523	150,218	150,412	154,893	155,646	155,609	
	rate	2.0	2.7	4.0	2.0	2.7	6.0	2.7	2.6	6.4	1.9	No significant change
Muskegon	count	6	8	6	5	4	9	4	5	6	13	
	pop	172,312	172,304	172,506	173,342	173,804	173,719	173,645	175,848	176,612	176,565	
	rate	3.5	4.6	3.5	2.9	2.3	5.2	2.3	2.8	3.4	7.4	No significant change
Niles-Benton Harbor	count	16	10	6	5	9	3	2	5	10	6	
	pop	156,205	156,074	155,136	154,451	154,264	153,892	153,352	154,183	153,377	152,900	
	rate	10.2	6.4	3.9	3.2	5.8	1.9	1.3	3.2	6.5	3.9	No significant change

MSA's continued on next page

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

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Metropolitan Statistical Areas (MSA's)¹ , continued from previous page												
Saginaw	count	18	12	6	19	19	9	5	5	6	7	
	pop	196,859	195,317	193,384	192,636	192,002	190,841	190,484	189,860	189,590	188,330	
	rate	9	6	3	10	10	5	3	3	3	4	-9.7% (-18.1%, -0.4%)
Micropolitan Area	count	17	22	24	6	26	27	31	11	22	34	
	pop	1,133,166	1,134,274	1,133,108	1,133,545	1,134,196	1,134,029	1,135,375	1,140,935	1,141,704	1,143,570	
	rate	2	2	2	1	2	2	3	1	2	3	No significant change
Rural	count	12	9	8	10	9	10	8	11	10	13	
	pop	720,377	718,082	715,608	713,188	713,984	714,982	713,897	715,114	719,106	722,513	
	rate	2	1	1	1	1	1	1	2	1	2	No significant change

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

New Michigan HIV diagnoses 2013 - 2022: Geographic Stratification (last reported address each year)

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Select cities: cities with at least 50 new HIV diagnoses over the 10 year period.												
Ann Arbor	count	12	8	6	11	6	15	8	5	8	4	
	pop	125,483	127,457	128,654	129,841	130,450	130,469	128,819	128,275	123,980	124,768	
	rate	9.6	6.3	4.7	8.5	4.6	11.5	6.2	3.9	6.5	3.2	No significant change
Battle Creek	count	6	4	4	6	3	9	6	3	7	7	
	pop	51,787	51,779	51,562	51,439	51,243	51,017	50,948	52,651	52,462	52,123	
	rate	11.6	7.7	7.8	11.7	5.9	17.6	11.8	5.7	13.3	13.4	No significant change
Clinton Township	count	8	5	6	12	11	7	8	6	10	9	
	pop	98,737	99,413	99,911	100,462	100,626	100,458	100,286	100,325	99,858	99,448	
	rate	8.1	5.0	6.0	11.9	10.9	7.0	8.0	6.0	10.0	9.0	No significant change
Dearborn	count	8	6	3	7	3	4	9	6	2	5	
	pop	96,073	95,984	95,502	95,079	94,758	94,470	93,988	109,662	108,736	107,710	
	rate	8.3	6.3	3.1	7.4	3.2	4.2	9.6	5.5	1.8	4.6	No significant change
Detroit	count	245	249	236	245	227	221	193	170	172	183	
	pop	691,986	682,746	679,562	677,379	675,031	673,658	670,442	637,342	628,167	620,376	
	rate	35.4	36.5	34.7	36.2	33.6	32.8	28.8	26.7	27.4	29.5	-3.0% (-4.5%, -1.5%)
Eastpointe	count	9	10	3	2	6	15	10	6	4	6	
	pop	32,672	32,739	32,612	32,621	32,495	32,254	32,021	34,230	34,077	33,806	
	rate	27.5	30.5	9.2	6.1	18.5	46.5	31.2	17.5	11.7	17.7	No significant change
Ferndale	count	9	10	3	7	7	4	4	3	4	2	
	pop	20,299	20,319	20,232	20,222	20,174	20,054	20,037	19,209	19,137	18,969	
	rate	44.3	49.2	14.8	34.6	34.7	19.9	20.0	15.6	20.9	10.5	-11.9% (-20.6%, -2.2%)
Flint	count	19	14	15	25	25	24	19	14	22	12	
	pop	130,785	129,705	128,694	127,859	127,078	126,373	125,833	112,500	111,844	110,864	
	rate	14.5	10.8	11.7	19.6	19.7	19.0	15.1	12.4	19.7	10.8	No significant change
Grand Rapids	count	24	32	27	29	34	25	28	21	24	21	
	pop	210,532	212,127	213,134	214,985	217,650	218,821	219,692	217,629	216,700	215,876	
	rate	11.4	15.1	12.7	13.5	15.6	11.4	12.7	9.6	11.1	9.7	No significant change
Inkster	count	9	8	6	8	9	4	10	3	3	3	
	pop	24,873	24,858	24,731	24,623	24,530	24,425	24,291	26,002	25,784	25,527	
	rate	36.2	32.2	24.3	32.5	36.7	16.4	41.2	11.5	11.6	11.8	No significant change
Jackson	count	11	21	13	9	9	9	10	3	9	10	
	pop	33,135	33,028	32,942	32,732	32,724	32,575	32,411	31,303	31,213	31,031	
	rate	33.2	63.6	39.5	27.5	27.5	27.6	30.9	9.6	28.8	32.2	No significant change
Kalamazoo	count	11	13	13	7	14	11	23	13	13	14	
	pop	98,237	98,621	98,386	98,519	98,606	99,288	99,022	96,255	94,976	95,395	
	rate	11.2	13.2	13.2	7.1	14.2	11.1	23.2	13.5	13.7	14.7	No significant change
Lansing	count	17	22	17	26	23	12	13	13	20	19	
	pop	122,999	123,367	123,629	124,757	125,857	126,046	126,029	120,676	120,630	120,585	
	rate	13.8	17.8	13.8	20.8	18.3	9.5	10.3	10.8	16.6	15.8	No significant change

Select cities continued on next page

New Michigan HIV diagnoses 2013 - 2022: Geographic Stratification (last reported address each year)

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Select cities, continued from previous page												
Oak Park	count	8	5	8	8	8	7	8	5	8	4	
	pop	30,024	30,058	29,924	29,895	29,805	29,595	29,434	29,516	29,350	29,108	
	rate	26.6	16.6	26.7	26.8	26.8	23.7	27.2	16.9	27.3	13.7	No significant change
Pontiac	count	15	14	10	13	23	13	16	9	8	6	
	pop	60,458	60,476	60,275	60,247	60,147	59,776	59,441	61,821	62,086	61,854	
	rate	24.8	23.1	16.6	21.6	38.2	21.7	26.9	14.6	12.9	9.7	No significant change
Redford	count	9	4	6	6	6	5	8	7	10	4	
	pop	7,688	7,622	7,577	7,540	7,505	7,471	7,426	49,372	48,960	48,492	
	rate	117.1	52.5	79.2	79.6	79.9	66.9	107.7	14.2	20.4	8.2	-18.9% (-27.3%, -9.5%)
Roseville	count	3	5	6	7	4	3	8	4	9	5	
	pop	47,741	47,816	47,651	47,618	47,474	47,232	46,930	47,596	47,222	46,812	
	rate	6.3	10.5	12.6	14.7	8.4	6.4	17	8.4	19.1	10.7	No significant change
Royal Oak	count	7	6	8	5	8	5	4	2	7	4	
	pop	134,264	134,692	134,628	135,205	135,260	134,848	134,397	60,390	60,179	59,820	
	rate	5.2	4.5	5.9	3.7	5.9	3.7	3	3.3	11.6	6.7	No significant change
Saginaw	count	16	11	6	15	15	6	3	3	3	6	
	pop	92,494	91,655	90,679	90,276	89,937	89,312	88,984	85,732	85,416	84,690	
	rate	17.3	12	6.6	16.6	16.7	6.7	3.4	3.5	3.5	7.1	-12.4% (-20.8%, -3.0%)
Southfield	count	22	16	18	17	17	14	11	9	12	15	
	pop	89,250	89,510	89,417	89,532	89,447	88,989	88,602	91,243	90,663	90,124	
	rate	24.6	17.9	20.1	19	19	15.7	12.4	9.9	13.2	16.6	No significant change
Sterling Heights	count	4	5	10	0	11	11	5	5	6	8	
	pop	131,527	132,141	132,051	132,489	132,599	132,612	132,187	134,112	133,344	132,567	
	rate	3	3.8	7.6	0	8.3	8.3	3.8	3.7	4.5	6	No significant change
Taylor	count	4	8	10	7	9	6	6	5	9	8	
	pop	61,963	62,075	61,786	61,594	61,431	61,216	60,949	63,223	62,709	62,258	
	rate	6.5	12.9	16.2	11.4	14.7	9.8	9.8	7.9	14.4	12.8	No significant change
Warren	count	15	11	18	11	19	16	10	13	14	10	
	pop	135,319	135,673	135,393	135,206	135,011	134,248	133,667	139,101	138,272	137,107	
	rate	11.1	8.1	13.3	8.1	14.1	11.9	7.5	9.3	10.1	7.3	No significant change
Westland	count	10	18	9	5	11	8	10	6	8	6	
	pop	82,666	82,634	82,328	82,132	81,980	81,828	81,558	85,196	84,678	84,037	
	rate	12.1	21.8	10.9	6.1	13.4	9.8	12.3	7	9.4	7.1	No significant change
Wyoming	count	1	4	7	8	3	5	4	5	7	6	
	pop	74,320	75,001	75,317	75,726	76,105	75,870	75,639	76,755	76,853	76,726	
	rate	1.3	5.3	9.3	10.6	3.9	6.6	5.3	6.5	9.1	7.8	No significant change
Ypsilanti	count	21	14	25	16	10	13	12	8	13	10	
	pop	102,755	103,061	103,279	103,487	103,709	103,540	102,430	76,195	74,339	74,616	
	rate	20.4	13.6	24.2	15.5	9.6	12.6	11.7	10.5	17.5	13.4	No significant change

	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)	
Sex at birth													
Male	count	627	639	593	625	625	568	558	435	542	528		
	pop	4,869,738	4,881,058	4,885,706	4,898,650	4,912,208	4,918,489	4,918,052	5,001,920	4,985,697	4,982,544		
	rate	12.9	13.1	12.1	12.8	12.7	11.5	11.3	8.7	10.9	10.6	-2.3%	(-3.2%, -1.4%)
Female	count	122	143	129	113	141	141	110	85	102	106		
	pop	5,045,064	5,050,975	5,048,777	5,055,467	5,064,544	5,068,797	5,066,743	5,067,657	5,051,807	5,051,569		
	rate	2.4	2.8	2.6	2.2	2.8	2.8	2.2	1.7	2.0	2.1	-2.6%	(-4.7%, -0.3%)
Trans-gender¹	count	14	19	10	21	18	19	16	13	15	14		
	MI %	1.9%	2.4%	1.4%	2.9%	2.4%	2.7%	2.4%	2.5%	2.3%	2.2%	No significant change	
Race by sex at birth²													
Black/AA overall	count	475	467	436	415	446	405	384	316	343	333		
	pop	1,381,921	1,380,313	1,377,536	1,376,368	1,376,203	1,375,779	1,374,924	1,395,458	1,388,711	1,381,727		
	rate	34.4	33.8	31.7	30.2	32.4	29.4	27.9	22.6	24.7	24.1	-3.9%	(-4.9%, -2.8)
Black/AA males	count	395	365	350	349	349	320	316	256	280	270		
	pop	655,862	655,271	654,184	653,893	653,458	652,833	652,101	666,731	663,029	658,876		
	rate	60.2	55.7	53.5	53.4	53.4	49.0	48.5	38.4	42.2	41.0	-3.9%	(-5.1%, -2.7%)
Black/AA females	count	80	102	86	66	97	85	68	60	63	63		
	pop	726,059	725,042	723,352	722,475	722,745	722,946	722,823	728,727	725,682	722,851		
	rate	11.0	14.1	11.9	9.1	13.4	11.8	9.4	8.2	8.7	8.7	-3.9%	(-6.9%, -0.9%)
Latinx overall	count	41	51	47	53	67	50	57	39	49	69		
	pop	468,717	478,157	486,925	498,873	509,922	521,419	533,351	550,334	560,135	573,514		
	rate	8.7	10.7	9.7	10.6	13.1	9.6	10.7	7.1	8.7	12.0	No significant change	
Latinx males	count	36	46	38	47	58	42	52	34	45	62		
	pop	237,909	242,786	247,239	253,512	259,122	264,973	271,042	281,523	286,472	293,232		
	rate	15.1	18.9	15.4	18.5	22.4	15.9	19.2	12.1	15.7	21.1	No significant change	
Latinx females	count	5	5	9	6	9	8	5	5	4	7		
	pop	230,808	235,371	239,686	245,361	250,800	256,446	262,309	268,811	273,663	280,282		
	rate	2.2	2.1	3.8	2.4	3.6	3.1	1.9	1.9	1.5	2.5	No significant change	
White overall	count	202	227	208	228	234	221	210	144	224	201		
	pop	7,532,352	7,524,366	7,505,321	7,495,433	7,489,913	7,476,400	7,454,804	7,487,385	7,445,977	7,423,617		
	rate	2.7	3.4	2.8	3.0	3.1	3.0	2.8	1.9	3.0	2.7	No significant change	
White males	count	171	199	178	195	202	180	176	126	190	172		
	pop	3,716,146	3,714,276	3,707,371	3,704,169	3,703,334	3,697,578	3,687,639	3,737,056	3,716,541	3,704,348		
	rate	4.6	5.4	4.8	5.3	5.5	4.9	4.8	3.4	5.1	4.6	No significant change	
White females	count	31	28	30	33	32	41	34	18	34	29		
	pop	3,816,206	3,810,090	3,797,950	3,791,264	3,786,579	3,778,822	3,767,165	3,750,329	3,729,436	3,719,269		
	rate	0.8	0.7	0.8	0.9	0.8	1.1	0.9	0.5	0.9	0.8	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 and 2016.

Measure		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Race by sex at birth , continued from previous page												
Multi/other overall	count	31	36	31	41	19	33	17	21	28	31	
	pop	531,812	549,197	564,701	583,443	600,714	613,688	621,716	636,400	642,681	655,255	
	rate	5.8	6.6	5.5	7.0	3.2	5.4	2.7	3.3	4.4	4.7	No significant change
Multi/other males	count	25	28	27	33	16	26	14	19	27	24	
	pop	259,821	268,725	276,912	287,076	296,294	303,105	307,270	316,610	319,655	326,088	
	rate	9.6	10.4	9.8	11.5	5.4	8.6	4.6	6.0	8.4	7.4	No significant change
Multi/other females	count	6	8	4	8	3	7	3	2	1	7	
	pop	271,991	280,472	287,789	296,367	304,420	310,583	314,446	319,790	323,026	329,167	
	rate	2.2	2.9	1.4	2.7	1.0	2.3	1.0	0.6	0.3	2.1	No significant change
Ethnicity and country of birth												
Arab/Mid E descent ¹	count	11	3	4	6	5	7	8	6	4	5	
	MI %	1.5%	0.4%	0.6%	0.8%	0.7%	1.0%	1.2%	1.2%	0.6%	0.8%	No significant change
Foreign born ²	count	42	44	47	49	41	29	35	18	20	21	
	MI %	5.6%	5.6%	6.5%	6.6%	5.4%	4.1%	5.2%	3.5%	3.1%	3.3%	-6.5% (-10.1%, 2.7%)
Age (yrs) at HIV diagnosis												
00-14	count	0	3	2	1	2	2	0	0	2	2	
	pop	1,842,671	1,827,015	1,807,735	1,795,231	1,787,642	1,777,598	1,763,545	1,765,716	1,744,085	1,724,898	
	rate	0.0	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	No significant change
15-19	count	57	44	37	55	49	41	43	22	31	25	
	pop	689,422	679,240	673,348	669,622	661,892	652,633	644,542	668,009	637,774	638,504	
	rate	8.3	6.5	5.5	8.2	7.4	6.3	6.7	3.3	4.9	3.9	-5.3% (-8.7%, 1.8%)
20-29	count	294	341	315	317	332	300	270	211	231	249	
	pop	1,329,996	1,350,444	1,361,626	1,373,552	1,385,554	1,387,849	1,379,772	1,368,507	1,359,285	1,350,531	
	rate	22.1	25.3	23.1	23.1	24.0	21.6	19.6	15.4	17.0	18.4	-3.4% (-4.9%, -1.9%)
30-39	count	143	159	140	140	160	166	180	136	187	177	
	pop	1,157,209	1,161,361	1,167,312	1,179,755	1,189,888	1,201,063	1,213,625	1,243,124	1,262,185	1,277,054	
	rate	12.4	13.7	12.0	11.9	13.4	13.8	14.8	10.9	14.8	13.9	+1.9% (0.1%, 3.7%)
40-49	count	133	122	120	105	112	89	90	66	89	101	
	pop	1,316,951	1,280,527	1,249,326	1,224,272	1,206,477	1,192,689	1,178,852	1,185,428	1,170,305	1,166,278	
	rate	10.1	9.5	9.6	8.6	9.3	7.5	7.6	5.6	7.6	8.7	-2.7% (-4.8%, -0.5%)
50-59	count	85	88	85	95	87	74	58	64	76	54	
	pop	1,471,353	1,468,331	1,454,391	1,433,197	1,405,869	1,376,584	1,350,178	1,352,128	1,332,579	1,303,662	
	rate	5.8	6.0	5.8	6.6	6.2	5.4	4.3	4.7	5.7	4.1	-3.0% (-5.5%, 0.5%)
60+	count	37	25	23	25	24	37	27	21	28	26	
	pop	2,107,200	2,165,115	2,220,745	2,278,488	2,339,430	2,398,870	2,454,281	2,486,665	2,531,291	2,573,186	
	rate	1.8	1.2	1.0	1.1	1.0	1.5	1.1	0.8	1.1	1.0	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 Michigan.

New Michigan HIV diagnoses 2013 - 2022: Demographic Stratification

	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)*
HIV transmission risk by gender¹												
Sex w men	count	533	615	534	565	589	519	516	355	438	394	
	MI %	71.2%	78.6%	74.0%	76.6%	76.9%	73.2%	77.2%	68.3%	68.0%	62.1%	No significant change
Cis men	count	438	483	436	453	461	388	412	297	365	320	
	MI %	58.5%	61.8%	60.4%	61.4%	60.2%	54.7%	61.7%	57.1%	56.7%	50.5%	No significant change
Cis women	count	84	115	88	92	110	114	90	45	59	62	
	MI %	11.2%	14.7%	12.2%	12.5%	14.4%	16.1%	13.5%	8.7%	9.2%	9.8%	No significant change
Trans-gender	count	11	17	10	20	18	17	14	13	14	12	
	MI %	1.5%	2.2%	1.4%	2.7%	2.3%	2.4%	2.1%	2.5%	2.2%	1.9%	No significant change
PWID	count	37	19	24	24	34	41	23	16	26	16	
	MI %	4.9%	2.4%	3.3%	3.3%	4.4%	5.8%	3.4%	3.1%	4.0%	2.5%	No significant change
Cis men	count	16	12	11	10	14	24	13	8	12	10	
	MI %	2.1%	1.5%	1.5%	1.4%	1.8%	3.4%	1.9%	1.5%	1.9%	1.6%	No significant change
Cis women	count	21	7	13	14	20	17	10	8	14	6	
	MI %	2.8%	0.9%	1.8%	1.9%	2.6%	2.4%	1.5%	1.5%	2.2%	0.9%	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	18	20	17	30	22	23	20	16	27	11	
	MI %	2.4%	2.6%	2.4%	4.1%	2.9%	3.2%	3.0%	3.1%	4.2%	1.7%	No significant change
Cis men	count	15	18	17	30	22	21	18	16	26	10	
	MI %	2.0%	2.3%	2.4%	4.1%	2.9%	3.0%	2.7%	3.1%	4.0%	1.6%	No significant change
Trans-gender	count	3	2	0	0	0	2	2	0	1	1	
	MI %	0.4%	0.3%	0.0%	0.0%	0.0%	0.3%	0.3%	0.0%	0.2%	0.2%	No significant change
Sex w women	count	36	26	34	30	30	27	24	17	9	9	
	MI %	4.8%	3.3%	4.7%	4.1%	3.9%	3.8%	3.6%	3.3%	1.4%	1.4%	-8.5% (-12.9%, -3.8%)
Cis men	count	36	26	34	30	30	27	24	17	9	9	
	MI %	4.8%	3.3%	4.7%	4.1%	3.9%	3.8%	3.6%	3.3%	1.4%	1.4%	-8.5% (-12.9%, -3.8%)
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	0	3	0	1	1	2	0	0	0	2	
	MI %	0.0%	0.4%	0.0%	0.1%	0.1%	0.3%	0.0%	0.0%	0.0%	0.3%	No significant change
Cis men	count	0	2	0	0	0	1	0	0	0	1	
	MI %	0.0%	0.3%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.2%	No significant change
Cis women	count	0	1	0	1	1	1	0	0	0	1	
	MI %	0.0%	0.1%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.2%	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	125	99	113	88	90	97	85	116	144	202	
	MI %	16.7%	12.7%	15.7%	11.9%	11.7%	13.7%	12.7%	22.3%	22.4%	31.9%	+7.3% (1.9%, 13.0%)

*Persons with unknown risk were excluded from the statistical testing for those with known risk. 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		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)	
Special populations													
Men who have sex with men (MSM) including MSM/PWID (persons who inject drugs)													
MSM	count	453	501	453	483	483	409	430	313	391	330		
	est pop	282,445	283,101	283,371	284,122	284,908	285,272	285,247	290,111	289,170	288,988		
	rate	160.4	177.0	159.9	170.0	169.5	143.4	150.7	107.9	135.2	114.2	-3.7%	(-5.2%, -2.1%)
15-29 yr old	count	207	199	189	197	187	167	167	121	122	111		
Black/AA MSM (YBMSM)	est pop	9,644	9,684	9,717	9,710	9,650	9,533	9,384	9,375	9,094	8,880		
	rate	2,146.4	2,055.0	1,945.1	2,028.8	1,937.9	1,751.8	1,779.7	1,290.7	1,341.5	1,250.1	-5.3%	(-7.0%, -3.6%)
Persons who inject drugs (PWID) including MSM/PWID													
PWID	count	55	39	41	54	56	64	43	32	53	27		
	MI %	7.3%	5.0%	5.7%	7.3%	7.3%	9.0%	6.4%	6.2%	8.2%	4.3%	No significant change	
15-29 yr old	count	23	19	14	16	25	22	15	14	16	8		
PWID	MI %	3.1%	2.4%	1.9%	2.2%	3.3%	3.1%	2.3%	2.7%	2.5%	1.3%	No significant change	
Young (15-29) Black/AA men compared to others													
15-29 yr old	count	232	218	217	219	221	190	180	137	139	152		
Black/AA men (YBM)	pop	166,278	166,957	167,528	167,419	166,375	164,364	161,789	161,638	156,799	153,095		
	rate	139.5	130.6	129.5	130.8	132.8	115.6	111.3	84.8	88.6	99.3	-4.3%	(-5.8%, -2.7%)
Other youth 15-29	count	119	167	135	153	160	151	133	96	123	122		
	pop	1,853,140	1,862,727	1,867,446	1,875,755	1,881,071	1,876,118	1,862,525	1,874,878	1,840,260	1,835,940		
	rate	6.4	9.0	7.2	8.2	8.5	8.0	7.1	5.1	6.7	6.6	No significant change	
30+ yrs old	count	398	394	368	365	383	366	355	287	380	358		
	pop	6,052,713	6,075,334	6,091,774	6,115,712	6,141,664	6,169,206	6,196,936	6,267,345	6,296,360	6,320,180		
	rate	6.6	6.5	6.0	6.0	6.2	5.9	5.7	4.6	6.0	5.7	-1.3%	(-2.5%, -0.2%)

Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% 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	368	479	397	452	489	414	385	200	286	247	
HIV negative	MI %	49.1%	61.3%	55.0%	61.2%	63.8%	58.4%	57.6%	38.5%	44.4%	39.0%	-3.0% (-5.9%, -0.02%)
Negative test w/in 2yrs of diagnosis												
	count	264	354	314	321	338	251	265	147	228	201	
	MI %	35.2%	45.3%	43.5%	43.5%	44.1%	35.4%	39.7%	28.3%	35.4%	31.7%	-2.4% (-4.7%, -0.2%)

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	117	77	99	101	
	MI %			15.1%	18.6%	21.4%	16.2%	17.5%	14.8%	15.4%	15.9%	No significant change
Late diagnosis	count	203	177	156	172	147	164	146	96	114	123	
	MI %	27.1%	22.6%	21.6%	23.3%	19.2%	23.1%	21.9%	18.5%	17.7%	19.4%	-3.1% (-4.9%, -1.3%)

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

Facility of diagnosis. The proportion of persons newly diagnosed at ER's, and outpatient care facilities significantly increased while the proportion diagnosed at Community Based Organizations (CBO's), inpatient facilities, and LHD's significantly decreased. The increase at ER's is due to hospitals implementing testing alerts into their Electronic Medical Record systems. Not all facility types are displayed below.

CBO	count	81	88	83	70	96	49	59	22	35	43	
	MI %	10.8%	11.3%	11.5%	9.5%	12.5%	6.9%	8.8%	4.2%	5.4%	6.8%	-6.90% (-10.4%, -3.2%)
ER	count	40	40	52	55	57	53	58	59	57	47	
	MI %	5.3%	5.1%	7.2%	7.5%	7.4%	7.5%	8.7%	11.3%	8.9%	7.4%	+4.9% (1.4%, 8.0%)
Inpatient	count	154	112	115	118	123	107	84	74	45	42	
	MI %	20.6%	14.3%	15.9%	16.0%	16.1%	15.1%	12.6%	14.2%	7.0%	6.6%	-10.0% (-13.4%, -6.3%)
Local Health Department	count	132	131	106	121	111	82	115	67	83	75	
	MI %	17.6%	16.8%	14.7%	16.4%	14.5%	11.6%	17.2%	12.9%	12.9%	11.8%	-3.50% (-5.8%, -1.2%)

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	307	341	325	347	378	357	325	269	342	338	
	MI %	41.0%	43.6%	45.0%	47.0%	49.3%	50.4%	48.7%	51.7%	53.1%	53.3%	+2.8% (1.5%, 4.0%)
8-90 day linkage	count	541	584	550	585	644	566	550	413	539	507	
	MI %	72.2%	74.7%	76.2%	79.3%	84.1%	79.8%	82.3%	79.4%	83.7%	80.0%	+1.3% (0.3%, 2.3%)
VS in 6mo of diagnosis	count	272	370	391	445	522	479	496	362	482	456	
	MI %	36.3%	47.3%	54.2%	60.3%	68.1%	67.6%	74.3%	69.6%	74.8%	71.9%	+7.0% (4.6%, 9.8%)
VS in 12mo of diagnosis	count	409	524	523	547	609	559	555	415	530	496	
	MI %	54.6%	67.0%	72.4%	74.1%	79.5%	78.8%	83.1%	79.8%	82.3%	78.2%	+3.4% (1.6%, 5.1%)

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



The Detroit Metro Area, 2013 - 2022

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 2013 - 2022: Geographic Stratification (last reported address each year)

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
DMA ¹	count	501	522	484	501	510	477	429	352	410	392	
	pop	4,271,737	4,275,840	4,272,364	4,277,709	4,282,090	4,282,820	4,277,767	4,345,558	4,327,065	4,305,209	
	rate	11.7	12.2	11.3	11.7	11.9	11.1	10.0	8.1	9.5	9.1	-3.0% (-4.1%, -2.0%)
DMA Prison ²	count	0	1	1	2	5	1	3	0	1	3	
	DMA %	0.0%	0.2%	0.2%	0.4%	1.0%	0.2%	0.7%	0.0%	0.2%	0.8%	No significant change

Local Health Department (LHD) Jurisdiction

Detroit LHD ³	count	262	263	246	257	234	229	203	175	182	186	
	pop	796,613	784,791	779,098	771,883	768,073	765,192	762,454	759,542	741,293	741,293	
	rate	32.9	33.5	31.6	33.3	30.5	29.9	26.6	23.0	24.6	25.1	-3.6% (-5.0%, -2.1%)
Lapeer Co.	count	1	0	1	3	3	4	2	2	1	2	
	pop	88,299	88,202	88,376	88,227	88,218	87,987	87,808	88,572	88,686	88,780	
	rate	1.1	0	1.1	3.4	3.4	4.5	2.3	2.3	1.1	2.3	No significant change
Macomb Co.	count	54	50	62	54	70	76	55	47	60	60	
	pop	857,146	862,914	865,031	868,329	870,867	872,089	872,389	880,176	877,385	874,195	
	rate	6.3	5.8	7.2	6.2	8	8.7	6.3	5.3	6.8	6.9	No significant change
Monroe Co.	count	3	4	6	3	4	9	4	4	10	3	
	pop	150,193	149,919	149,439	149,278	149,523	150,218	150,412	154,893	155,646	155,609	
	rate	2	2.7	4	2	2.7	6	2.7	2.6	6.4	1.9	No significant change
Oakland Co.	count	104	104	84	97	105	86	77	60	80	75	
	pop	1,235,656	1,243,076	1,244,895	1,251,563	1,256,478	1,257,472	1,257,726	1,272,413	1,271,891	1,269,431	
	rate	8.4	8.4	6.7	7.8	8.4	6.8	6.1	4.7	6.3	5.9	-3.8% (-6.1%, -1.4%)
St. Clair Co.	count	5	1	6	9	4	5	6	11	2	6	
	pop	160,312	160,103	159,757	159,477	159,130	159,186	159,339	160,375	160,384	160,151	
	rate	3.1	0.6	3.8	5.6	2.5	3.1	3.8	6.9	1.2	3.7	No significant change
Wayne Co. (excl Detroit LHD)	count	72	100	79	78	90	68	82	53	75	60	
	pop	983,518	986,835	985,768	988,952	989,801	990,676	987,639	1,029,587	1,031,780	1,015,750	
	rate	7.3	10.1	8	7.9	9.1	6.9	8.3	5.1	7.3	5.9	-2.9% (-5.6%, -0.2%)

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

Dearborn	count	8	6	3	7	3	4	9	6	2	5	
	pop	96,073	95,984	95,502	95,079	94,758	94,470	93,988	109,662	108,736	107,710	
	rate	8.3	6.3	3.1	7.4	3.2	4.2	9.6	5.5	1.8	4.6	No significant change
Detroit	count	245	249	236	245	227	221	193	170	172	183	
	pop	691,986	682,746	679,562	677,379	675,031	673,658	670,442	637,342	628,167	620,376	
	rate	35.4	36.5	34.7	36.2	33.6	32.8	28.8	26.7	27.4	29.5	-3.0% (-4.5%, -1.5%)
Eastpointe	count	9	10	3	2	6	15	10	6	4	6	
	pop	32,672	32,739	32,612	32,621	32,495	32,254	32,021	34,230	34,077	33,806	
	rate	27.5	30.5	9.2	6.1	18.5	46.5	31.2	17.5	11.7	17.7	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 2013 - 2022: Geographic Stratification (last reported address each year)

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Select cities: cities with at least 50 new HIV diagnoses over the 10 year period.												
Ferndale	count	9	10	3	7	7	4	4	3	4	2	
	pop	20,299	20,319	20,232	20,222	20,174	20,054	20,037	19,209	19,137	18,969	
	rate	44.3	49.2	14.8	34.6	34.7	19.9	20.0	15.6	20.9	10.5	-11.9% (-20.6%, -2.2%)
Inkster	count	9	8	6	8	9	4	10	3	3	3	
	pop	24,873	24,858	24,731	24,623	24,530	24,425	24,291	26,002	25,784	25,527	
	rate	36.2	32.2	24.3	32.5	36.7	16.4	41.2	11.5	11.6	11.8	No significant change
Oak Park	count	8	5	8	8	8	7	8	5	8	4	
	pop	30,024	30,058	29,924	29,895	29,805	29,595	29,434	29,516	29,350	29,108	
	rate	26.6	16.6	26.7	26.8	26.8	23.7	27.2	16.9	27.3	13.7	No significant change
Pontiac	count	15	14	10	13	23	13	16	9	8	6	
	pop	60,458	60,476	60,275	60,247	60,147	59,776	59,441	61,821	62,086	61,854	
	rate	24.8	23.1	16.6	21.6	38.2	21.7	26.9	14.6	12.9	9.7	No significant change
Redford	count	9	4	6	6	6	5	8	7	10	4	
	pop	7,688	7,622	7,577	7,540	7,505	7,471	7,426	49,372	48,960	48,492	
	rate	117.1	52.5	79.2	79.6	79.9	66.9	107.7	14.2	20.4	8.2	-18.9% (-27.3%, -9.5%)
Royal Oak	count	7	6	8	5	8	5	4	2	7	4	
	pop	134,264	134,692	134,628	135,205	135,260	134,848	134,397	60,390	60,179	59,820	
	rate	5.2	4.5	5.9	3.7	5.9	3.7	3	3.3	11.6	6.7	No significant change
Southfield	count	22	16	18	17	17	14	11	9	12	15	
	pop	89,250	89,510	89,417	89,532	89,447	88,989	88,602	91,243	90,663	90,124	
	rate	24.6	17.9	20.1	19	19	15.7	12.4	9.9	13.2	16.6	No significant change
Sterling Heights	count	4	5	10	0	11	11	5	5	6	8	
	pop	131,527	132,141	132,051	132,489	132,599	132,612	132,187	134,112	133,344	132,567	
	rate	3	3.8	7.6	0	8.3	8.3	3.8	3.7	4.5	6	No significant change
Taylor	count	4	8	10	7	9	6	6	5	9	8	
	pop	61,963	62,075	61,786	61,594	61,431	61,216	60,949	63,223	62,709	62,258	
	rate	6.5	12.9	16.2	11.4	14.7	9.8	9.8	7.9	14.4	12.8	No significant change
Warren	count	15	11	18	11	19	16	10	13	14	10	
	pop	135,319	135,673	135,393	135,206	135,011	134,248	133,667	139,101	138,272	137,107	
	rate	11.1	8.1	13.3	8.1	14.1	11.9	7.5	9.3	10.1	7.3	No significant change
Westland	count	10	18	9	5	11	8	10	6	8	6	
	pop	82,666	82,634	82,328	82,132	81,980	81,828	81,558	85,196	84,678	84,037	
	rate	12.1	21.8	10.9	6.1	13.4	9.8	12.3	7	9.4	7.1	No significant change

	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)	
Sex at birth													
Male	count	421	423	394	430	414	392	363	304	341	331		
	pop	2,070,850	2,074,726	2,074,442	2,079,284	2,083,451	2,084,598	2,082,722	2,133,612	2,124,114	2,112,894		
	rate	20.3	20.4	19.0	20.7	19.9	18.8	17.4	14.2	16.1	15.7	-3.0%	(-4.1%, -1.9%)
Female	count	80	100	91	73	101	86	69	48	70	64		
	pop	2,200,887	2,201,114	2,197,922	2,198,425	2,198,639	2,198,222	2,195,045	2,211,946	2,202,951	2,192,315		
	rate	3.6	4.5	4.1	3.3	4.6	3.9	3.1	2.2	3.2	2.9	-3.5%	(-6.1%, -0.7%)
Trans-gender¹	count	10	13	10	15	13	11	13	10	11	11		
	DMA %	2.0%	2.5%	2.1%	3.0%	2.6%	2.3%	3.0%	2.8%	2.7%	2.8%	No significant change	
Race by sex at birth²													
Black/AA overall	count	358	369	332	319	342	323	285	242	258	252		
	pop	968,299	965,516	962,526	960,702	960,120	959,271	958,622	977,385	972,219	965,215		
	rate	37.0	38.2	34.5	33.2	35.6	33.7	29.7	24.8	26.5	26.1	-4.0%	(-5.3%, -2.8)
Black/AA males	count	297	290	266	271	267	261	234	204	208	206		
	pop	445,364	444,082	442,469	441,788	441,250	440,529	439,882	451,525	448,560	444,737		
	rate	66.7	65.3	60.1	61.3	60.5	59.2	53.2	45.2	46.4	46.3	-4.0%	(-5.4%, -2.6%)
Black/AA females	count	61	79	66	48	75	62	51	38	50	46		
	pop	522,935	521,434	520,057	518,914	518,870	518,742	518,740	525,860	523,659	520,478		
	rate	11.7	15.2	12.7	9.3	14.5	12.0	9.8	7.2	9.5	8.8	-4.1%	(-7.3%, -0.8%)
Latinx overall	count	18	20	32	28	32	24	27	18	26	29		
	pop	179,294	182,446	185,703	190,302	194,302	198,678	203,524	212,255	216,085	221,360		
	rate	10.0	11.0	17.2	14.7	16.5	12.1	13.3	8.5	12.0	13.1	No significant change	
Latinx males	count	17	19	25	26	25	21	27	17	24	24		
	pop	90,271	91,865	93,577	96,020	98,153	100,384	102,816	108,038	109,952	112,509		
	rate	19	21	27	27	26	21	26	16	22	21	No significant change	
Latinx females	count	1	1	7	2	7	3	0	1	2	5		
	pop	89,023	90,581	92,126	94,282	96,149	98,294	100,708	104,217	106,133	108,851		
	rate	1.1	1.1	7.6	2.1	7.3	3.1	0.0	1.0	1.9	4.6	No significant change	
White overall	count	111	116	105	135	130	112	110	78	113	98		
	pop	2,865,229	2,859,062	2,846,539	2,837,524	2,828,138	2,816,815	2,802,344	2,831,413	2,808,725	2,781,953		
	rate	4	4	4	5	5	4	4	3	4	4	No significant change	
White males	count	93	101	89	113	113	94	93	70	96	86		
	pop	1,408,643	1,407,006	1,402,006	1,398,603	1,395,483	1,390,487	1,384,059	1,411,289	1,400,068	1,386,602		
	rate	6.6	7.2	6.3	8.1	8.1	6.8	6.7	5.0	6.9	6.2	No significant change	
White females	count	18	15	16	22	17	18	17	8	17	12		
	pop	1,456,586	1,452,056	1,444,533	1,438,921	1,432,655	1,426,328	1,418,285	1,420,124	1,408,657	1,395,351		
	rate	1.2	1.0	1.1	1.5	1.2	1.3	1.2	0.6	1.2	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 and 2016.

	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Race by sex at birth , continued from previous page												
Multi/other overall	count	14	17	16	20	11	19	10	14	14	16	
	pop	258,915	268,816	277,596	289,181	299,530	308,056	313,277	324,505	330,036	336,681	
	rate	5.4	6.3	5.8	6.9	3.7	6.2	3.2	4.3	4.2	4.8	No significant change
Multi/other males	count	14	12	14	19	9	16	9	13	13	15	
	pop	126,572	131,773	136,390	142,873	148,565	153,198	155,965	162,760	165,534	169,046	
	rate	11.1	9.1	10.3	13.3	6.1	10.4	5.8	8.0	7.9	8.9	No significant change
Multi/other females	count	0	5	2	1	2	3	1	1	1	1	
	pop	132,343	137,043	141,206	146,308	150,965	154,858	157,312	161,745	164,502	167,635	
	rate	0.0	3.6	1.4	0.7	1.3	1.9	0.6	0.6	0.6	0.6	No significant change
Ethnicity and country of birth												
Arab/Mid E descent ¹	count	11	3	3	4	5	7	7	5	4	5	
	DMA %	2.2%	0.6%	0.6%	0.8%	1.0%	1.5%	1.6%	1.4%	1.0%	1.3%	No significant change
Foreign born ²	count	20	18	22	19	24	10	12	10	14	16	
	DMA %	4.0%	3.5%	4.6%	3.8%	4.7%	2.1%	2.8%	2.8%	3.4%	4.1%	No significant change
Age (yrs) at HIV diagnosis												
00-14	count	0	1	2	1	1	2	0	0	1	1	
	pop	808,181	800,782	791,673	785,622	780,959	776,306	770,058	778,311	768,157	759,296	
	rate	0.0	0.1	0.3	0.1	0.1	0.3	0.0	0.0	0.1	0.1	No significant change
15-19	count	44	25	28	39	34	34	34	18	18	22	
	pop	285,410	279,406	275,303	272,928	268,953	265,012	261,751	273,124	263,868	258,789	
	rate	15.4	8.9	10.2	14.3	12.6	12.8	13.0	6.6	6.8	8.5	No significant change
20-29	count	203	242	222	211	220	213	177	158	149	157	
	pop	543,403	554,851	561,488	567,913	573,339	574,752	570,877	568,474	563,391	553,711	
	rate	37.4	43.6	39.5	37.2	38.4	37.1	31.0	27.8	26.4	28.4	-4.5% (-6.2%, -2.8%)
30-39	count	94	104	86	92	104	108	122	87	120	109	
	pop	512,120	510,824	511,016	516,434	520,876	526,139	532,930	553,503	563,756	570,667	
	rate	18.4	20.4	16.8	17.8	20.0	20.5	22.9	15.7	21.3	19.1	No significant change
40-49	count	79	80	78	73	83	55	52	38	52	62	
	pop	601,633	586,517	571,993	558,506	548,105	539,567	530,361	533,745	521,827	514,716	
	rate	13.1	13.6	13.6	13.1	15.1	10.2	9.8	7.1	10.0	12.0	-3.0% (-5.7%, -0.3%)
50-59	count	58	59	55	70	55	43	37	38	51	30	
	pop	644,660	644,614	639,554	631,525	620,703	608,376	597,248	603,966	596,365	584,227	
	rate	9.0	9.2	8.6	11.1	8.9	7.1	6.2	6.3	8.6	5.1	-4.6% (-8.0%, -1.1%)
60+	count	23	12	14	17	18	23	10	13	20	14	
	pop	876,330	898,846	921,337	944,781	969,155	992,668	1,014,542	1,034,435	1,049,701	1,063,803	
	rate	2.6	1.3	1.5	1.8	1.9	2.3	1.0	1.3	1.9	1.3	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	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)*
HIV transmission risk by gender¹												
Sex w men	count	368	420	359	388	390	353	334	239	288	248	
	DMA %	73.5%	80.5%	74.2%	77.4%	76.5%	74.0%	77.9%	67.9%	70.2%	63.3%	No significant change
Cis men	count	303	327	288	314	298	271	267	205	235	197	
	DMA %	60.5%	62.6%	59.5%	62.7%	58.4%	56.8%	62.2%	58.2%	57.3%	50.3%	No significant change
Cis women	count	57	82	61	59	79	72	55	24	43	42	
	DMA %	11.4%	15.7%	12.6%	11.8%	15.5%	15.1%	12.8%	6.8%	10.5%	10.7%	No significant change
Trans-gender	count	8	11	10	15	13	10	12	10	10	9	
	DMA %	1.6%	2.1%	2.1%	3.0%	2.5%	2.1%	2.8%	2.8%	2.4%	2.3%	No significant change
PWID	count	19	10	17	13	22	25	16	10	12	11	
	DMA %	3.8%	1.9%	3.5%	2.6%	4.3%	5.2%	3.7%	2.8%	2.9%	2.8%	No significant change
Cis men	count	8	6	6	4	7	17	9	4	4	7	
	DMA %	1.6%	1.1%	1.2%	0.8%	1.4%	3.6%	2.1%	1.1%	1.0%	1.8%	No significant change
Cis women	count	11	4	11	9	15	8	7	6	8	4	
	DMA %	2.2%	0.8%	2.3%	1.8%	2.9%	1.7%	1.6%	1.7%	2.0%	1.0%	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
Sex w men/PWID	count	10	15	9	18	13	14	8	13	13	7	
	DMA %	2.0%	2.9%	1.9%	3.6%	2.5%	2.9%	1.9%	3.7%	3.2%	1.8%	No significant change
Cis men	count	8	13	9	18	13	13	7	13	12	6	
	DMA %	1.6%	2.5%	1.9%	3.6%	2.5%	2.7%	1.6%	3.7%	2.9%	1.5%	No significant change
Trans-gender	count	2	2	0	0	0	1	1	0	1	1	
	DMA %	0.4%	0.4%	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%	0.2%	0.3%	No significant change
Sex w women	count	22	11	23	20	20	16	12	15	5	6	
	DMA %	4.4%	2.1%	4.8%	4.0%	3.9%	3.4%	2.8%	4.3%	1.2%	1.5%	-8.1% (-14.7%, -1.0%)
Cis men	count	22	11	23	20	20	16	12	15	5	6	
	DMA %	4.4%	2.1%	4.8%	4.0%	3.9%	3.4%	2.8%	4.3%	1.2%	1.5%	-8.1% (-14.7%, -1.0%)
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	0	1	0	1	1	2	0	0	0	1	
	DMA %	0.0%	0.2%	0.0%	0.2%	0.2%	0.4%	0.0%	0.0%	0.0%	0.3%	No significant change
Cis men	count	0	1	0	0	0	1	0	0	0	0	
	DMA %	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	No significant change
Cis women	count	0	0	0	1	1	1	0	0	0	1	
	DMA %	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%	0.0%	0.0%	0.0%	0.3%	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	82	66	77	63	69	68	62	75	93	122	
	DMA %	16.4%	12.6%	15.9%	12.6%	13.5%	14.3%	14.5%	21.3%	22.7%	31.1%	+7.4% (2.9%, 12.2%)

*Persons with unknown risk were excluded from the statistical testing for those with known risk. 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		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Special populations												
Men who have sex with men (MSM) including MSM/PWID (persons who inject drugs)												
MSM	count	311	340	297	332	311	284	274	218	247	203	
	est pop	120,109	120,334	120,318	120,598	120,840	120,907	120,798	123,750	123,199	122,548	
	rate	258.9	282.5	246.8	275.3	257.4	234.9	226.8	176.2	200.5	165.6	-4.6% (-6.2%, -2.9%)
15-29 yr old	count	158	160	146	153	138	139	120	101	88	84	
Black/AA MSM (YBMSM)	est pop	6,274	6,288	6,285	6,267	6,214	6,129	6,013	6,019	5,828	5,647	
	rate	2,518.2	2,544.5	2,322.8	2,441.3	2,220.8	2,267.9	1,995.8	1,678.1	1,510.0	1,487.5	-5.7% (-7.6%, -3.7%)
Persons who inject drugs (PWID) including MSM/PWID												
PWID	count	29	25	26	31	35	39	24	23	25	19	
	DMA %	5.8%	4.8%	5.4%	6.2%	6.9%	8.2%	5.6%	6.5%	6.1%	4.8%	No significant change
15-29 yr old	count	13	15	9	8	15	13	7	12	6	4	
PWID	DMA %	2.6%	2.9%	1.9%	1.6%	2.9%	2.7%	1.6%	3.4%	1.5%	1.0%	No significant change
Young (15-29) Black/AA men compared to others												
15-29 yr old	count	175	174	166	170	164	161	131	115	99	112	
Black/AA men (YBM)	pop	108,180	108,414	108,369	108,055	107,139	105,675	103,667	103,772	100,477	97,365	
	rate	161.8	160.5	153.2	157.3	153.1	152.4	126.4	110.8	98.5	115.0	-4.6% (-6.4%, -2.8%)
Other youth 15-29	count	72	93	84	80	90	86	80	61	68	67	
	pop	720,633	725,843	728,422	732,786	735,153	734,089	728,961	737,826	726,782	715,135	
	rate	10.0	12.8	11.5	10.9	12.2	11.7	11.0	8.3	9.4	9.4	No significant change
30+ yrs old	count	254	255	233	252	260	229	221	176	243	215	
	pop	2,634,743	2,640,801	2,643,900	2,651,246	2,658,839	2,666,750	2,675,081	2,725,649	2,731,649	2,733,413	
	rate	9.6	9.7	8.8	9.5	9.8	8.6	8.3	6.5	8.9	7.9	-1.8% (-3.3%, -0.4%)

Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% 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	248	313	272	313	326	285	267	146	194	168	
HIV negative	DMA %	49.5%	60.0%	56.2%	62.5%	63.9%	59.7%	62.2%	41.5%	47.3%	42.9%	No significant change
Negative test w/in 2yrs of diagnosis												
	count	181	242	222	224	232	185	185	102	146	131	
	DMA %	36.1%	46.4%	45.9%	44.7%	45.5%	38.8%	43.1%	29.0%	35.6%	33.4%	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			82	92	115	83	87	53	68	70	
	DMA %			16.9%	18.4%	22.5%	17.4%	20.3%	15.1%	16.6%	17.9%	No significant change
Late diagnosis	count	120	116	101	115	89	99	89	54	76	76	
	DMA %	24.0%	22.2%	20.9%	23.0%	17.5%	20.8%	20.7%	15.3%	18.5%	19.4%	No significant change

Facility of diagnosis. The proportion of persons newly diagnosed at blood/plasma centers, and HIV/ID Clinics were stable. Diagnoses at ER's, and outpatient care facilities significantly increased while the proportion diagnosed at Community Based Organizations (CBO's), Local Health Departments (LHD's), and inpatient facilities significantly decreased. The increase at ER's is due to hospitals implementing testing alerts into their Electronic Medical Record systems. Not all facility types are displayed below.												
Blood/Plasma center	count	26	16	14	19	28	35	36	20	7	25	
	DMA %	5.2%	3.1%	2.9%	3.8%	5.5%	7.3%	8.4%	5.7%	1.7%	6.4%	No significant change
CBO	count	58	57	60	44	68	31	40	14	24	28	
	DMA %	11.6%	11.0%	12.5%	8.8%	13.3%	6.5%	9.3%	4.0%	5.9%	7.1%	-6.6% (-10.8%, -2.3%)
ER	count	35	37	42	52	54	45	52	50	48	40	
	DMA %	7.0%	7.1%	8.7%	10.4%	10.6%	9.4%	12.1%	14.2%	11.7%	10.2%	+5.0% (1.5%, 8.7%)
Local Health Department	count	84	75	57	68	65	53	70	42	53	30	
	DMA %	16.8%	14.4%	11.9%	13.7%	12.7%	11.1%	16.3%	11.9%	13.0%	7.6%	-4.0% (-7.5%, -0.5%)

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	195	220	201	224	246	220	196	173	212	208	
	DMA %	38.9%	42.1%	41.5%	44.7%	48.2%	46.1%	45.7%	49.1%	51.7%	53.1%	+3.1% (1.5%, 4.8%)
8-90 day linkage	count	351	369	362	384	429	373	342	272	338	310	
	DMA %	70.1%	70.7%	74.8%	76.6%	84.1%	78.2%	79.7%	77.3%	82.4%	79.1%	+1.6% (0.4%, 2.8%)
VS in 6mo of diagnosis	count	167	227	249	297	344	318	312	240	304	272	
	DMA %	33.3%	43.5%	51.4%	59.3%	67.5%	66.7%	72.7%	68.2%	74.1%	69.4%	+5.1% (3.2%, 7.0%)
VS in 12mo of diagnosis	count	269	328	343	374	404	369	352	274	333	298	
	DMA %	53.7%	62.8%	70.9%	74.7%	79.2%	77.4%	82.1%	77.8%	81.2%	76.0%	+3.5% (1.6%, 5.4%)

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



Detroit LHD Jurisdiction, 2013 - 2022

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 2013 - 2022: Geographic Stratification (last reported address each year)

Region	Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Detroit LHD	count	262	263	246	257	234	229	203	175	182	186	
Jurisdiction ¹	pop	796,613	784,791	779,098	771,883	768,073	765,192	762,454	759,542	741,293	741,293	
	rate	32.9	33.5	31.6	33.3	30.5	29.9	26.6	23.0	24.6	25.1	-3.6% (-5.0%, -2.1%)
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	245	249	236	245	227	221	193	170	172	183	
	pop	691,986	682,746	679,562	677,379	675,031	673,658	670,442	637,342	628,167	620,376	
	rate	35.4	36.5	34.7	36.2	33.6	32.8	28.8	26.7	27.4	29.5	-3.1% (-4.6%, -1.6%)

New Detroit LHD HIV diagnoses 2013 - 2022: Demographic Stratification

Sex at birth

Male	count	218	213	199	216	181	185	168	145	136	155	
	pop	378,558	373,405	370,525	366,478	364,829	363,243	363,201	361,504	353,882	353,882	
	rate	57.6	57.0	53.7	58.9	49.6	50.9	46.3	40.1	38.4	43.8	-4.0% (-5.6%, -2.3%)
Female	count	44	51	48	42	55	45	36	30	46	34	
	pop	418,055	411,386	408,573	405,405	403,244	401,949	399,253	398,038	387,411	387,411	
	rate	10.5	12.4	11.7	10.4	13.6	11.2	9.0	7.5	11.9	8.8	No significant change

Trans-gender ³	count	7	4	7	9	7	6	10	8	5	7	
	DLHD %	2.7%	1.5%	2.8%	3.5%	3.0%	2.6%	4.9%	4.6%	2.7%	3.8%	No significant change

Race by sex at birth

Black/AA overall	count	240	237	223	221	210	205	182	152	162	162	
	pop	596,667	583,126	574,044	566,144	559,462	553,453	549,177	536,457	522,773	522,773	
	rate	40.2	40.6	38.8	39.0	37.5	37.0	33.1	28.3	31.0	31.0	-3.2% (-4.8%, -1.7%)
Black/AA males	count	201	190	180	185	160	164	149	127	123	132	
	pop	277,335	271,041	266,719	262,445	259,169	256,575	254,192	247,614	242,297	242,297	
	rate	72.5	70.1	67.5	70.5	61.7	63.9	58.6	51.3	50.8	54.5	-3.6% (-5.3%, -1.9%)
Black/AA females	count	39	47	43	36	50	41	33	25	39	30	
	pop	319,328	312,086	307,328	303,695	300,294	296,888	294,988	288,841	280,479	280,479	
	rate	12.2	15.1	14.0	11.9	16.7	13.8	11.2	8.7	13.9	10.7	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	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Race by sex at birth¹ (continued from previous page)												
Latinx overall	count	8	7	8	14	8	9	8	6	7	12	
	pop	51,712	52,482	54,568	52,752	53,004	52,841	53,215	53,635	51,802	51,802	
	rate	15.5	13.3	14.7	26.5	15.1	17.0	15.0	11.2	13.5	23.2	No significant change
Latinx males	count	8	7	6	13	6	7	8	5	6	9	
	pop	26,352	26,713	27,536	26,781	27,009	26,951	27,486	27,668	26,715	26,715	
	rate	30.4	26.2	21.8	48.5	22.2	26.0	29.1	18.1	22.5	33.7	No significant change
Latinx females	count	0	0	2	1	2	2	0	1	1	3	
	pop	25,360	25,769	27,032	25,971	25,995	25,890	25,729	25,967	25,087	25,087	
	rate	0.0	0.0	7.4	3.9	7.7	7.7	0.0	3.9	4.0	12.0	No significant change
White overall	count	11	16	11	15	14	12	10	10	12	12	
	pop	116,570	117,108	117,952	118,936	120,904	122,650	124,218	127,330	123,959	123,959	
	rate	9.4	13.7	9.3	12.6	11.6	9.8	8.1	7.9	9.7	9.7	No significant change
White males	count	6	12	9	11	12	10	7	7	7	11	
	pop	59,052	59,675	60,224	60,534	61,794	62,387	63,976	65,629	63,584	63,584	
	rate	10.2	20.1	14.9	18.2	19.4	16.0	10.9	10.7	11.0	17.3	No significant change
White females	count	5	4	2	4	2	2	3	3	5	1	
	pop	57,518	57,433	57,728	58,402	59,110	60,263	60,242	61,701	60,375	60,375	
	rate	8.7	7.0	3.5	6.8	3.4	3.3	5.0	4.9	8.3	1.7	No significant change
Multi/other overall	count	3	4	5	7	4	4	4	7	1	3	
	pop	31,668	32,074	32,531	34,055	34,702	36,238	35,841	42,122	42,756	42,756	
	rate	9.5	12.5	15.4	20.6	11.5	11.0	11.2	16.6	2.3	7.0	No significant change
Multi/other males	count	3	4	4	6	3	4	4	6	0	3	
	pop	15,819	15,976	16,046	16,718	16,857	17,330	17,547	20,593	21,286	21,286	
	rate	19.0	25.0	24.9	35.9	17.8	23.1	22.8	29.1	0.0	14.1	No significant change
Multi/other females	count	0	0	1	1	1	0	0	1	1	0	
	pop	15,849	16,098	16,485	17,337	17,845	18,908	18,294	21,529	21,470	21,470	
	rate	0.0	0.0	6.1	5.8	5.6	0.0	0.0	4.6	4.7	0.0	No significant change

Ethnicity and country of birth

Arab/Mid E descent ²	count	3	1	0	1	1	0	1	1	3	1	
	DLHD %	1.1%	0.4%	0.0%	0.4%	0.4%	0.0%	0.5%	0.6%	1.6%	0.5%	No significant change
Foreign born ³	count	3	4	3	4	3	0	2	2	5	8	
	DLHD %	1.1%	1.5%	1.2%	1.6%	1.3%	0.0%	1.0%	1.1%	2.7%	4.3%	-13.9% (-1.1%, -28.3%)

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	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)*
HIV transmission risk by gender¹												
Sex w men	count	189	211	180	201	182	172	159	110	121	119	
	DLHD %	72.1%	80.2%	73.2%	78.2%	77.8%	75.1%	78.3%	62.9%	66.5%	64.0%	No significant change
Cis men	count	153	168	141	155	130	125	121	90	88	92	
	DLHD %	58.4%	63.9%	57.3%	60.3%	55.6%	54.6%	59.6%	51.4%	48.4%	49.5%	No significant change
Cis women	count	30	39	32	37	45	41	28	12	29	21	
	DLHD %	11.5%	14.8%	13.0%	14.4%	19.2%	17.9%	13.8%	6.9%	15.9%	11.3%	No significant change
Trans-gender	count	6	4	7	9	7	6	10	8	4	6	
	DLHD %	2.3%	1.5%	2.8%	3.5%	3.0%	2.6%	4.9%	4.6%	2.2%	3.2%	No significant change
PWID	count	9	8	8	4	9	11	4	4	6	5	
	DLHD %	3.4%	3.0%	3.3%	1.6%	3.8%	4.8%	2.0%	2.3%	3.3%	2.7%	No significant change
Cis men	count	3	5	3	2	3	8	2	1	3	3	
	DLHD %	1.1%	1.9%	1.2%	0.8%	1.3%	3.5%	1.0%	0.6%	1.7%	1.6%	No significant change
Cis women	count	6	3	5	2	6	3	2	3	3	2	
	DLHD %	2.3%	1.1%	2.0%	0.8%	2.6%	1.3%	1.0%	1.7%	1.7%	1.1%	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	3	7	3	9	3	6	1	2	5	2	
	DLHD %	1.1%	2.7%	1.2%	3.5%	1.3%	2.6%	0.5%	1.1%	2.7%	1.1%	No significant change
Cis men	count	2	7	3	9	3	6	1	2	4	1	
	DLHD %	0.8%	2.7%	1.2%	3.5%	1.3%	2.6%	0.5%	1.1%	2.2%	0.5%	No significant change
Trans-gender	count	1	0	0	0	0	0	0	0	1	1	
	DLHD %	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.5%	No significant change
Sex w women	count	9	5	15	13	10	5	6	12	2	3	
	DLHD %	3.4%	1.9%	6.1%	5.1%	4.3%	2.2%	3.0%	6.9%	1.1%	1.6%	No significant change
Cis men	count	9	5	15	13	10	5	6	12	2	3	
	DLHD %	3.4%	1.9%	6.1%	5.1%	4.3%	2.2%	3.0%	6.9%	1.1%	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	0	1	0	1	0	0	0	0	0	1	
	DLHD %	0.0%	0.4%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	No significant change
Cis men	count	0	1	0	0	0	0	0	0	0	0	
	DLHD %	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	No significant change
Cis women	count	0	0	0	1	0	0	0	0	0	1	
	DLHD %	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	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	52	32	41	30	32	36	34	47	48	59	
	DLHD %	19.8%	12.2%	16.7%	11.7%	13.7%	15.7%	16.7%	26.9%	26.4%	31.7%	+7.3% (2.0%, 13.0%)

*Persons with unknown risk were excluded from the statistical testing for those with known risk. 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	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% change (95CI)
Special populations												
Men who have sex with men (MSM) including MSM/PWID (persons who inject drugs)												
MSM	count	155	175	144	164	133	131	122	92	92	93	
	est pop	21,956	21,657	21,490	21,256	21,160	21,068	21,066	20,967	20,525	20,525	
	rate	705.9	808.0	670.1	771.6	628.5	621.8	579.1	438.8	448.2	453.1	-5.8% (-7.7%, -3.8%)
15-29 yr old	count	102	109	91	94	80	83	72	54	43	54	
Black/AA MSM (YBMSM)	est pop	3,843	3,755	3,685	3,694	3,603	3,572	3,507	3,349	3,122	3,122	
	rate	2,654.3	2,902.6	2,469.6	2,544.8	2,220.4	2,323.4	2,053.0	1,612.6	1,377.3	1,729.6	-6.2% (-8.6%, -3.6%)
Persons who inject drugs (PWID) including MSM/PWID												
PWID	count	12	15	11	14	14	17	5	6	10	7	
	DLHD %	4.5%	5.7%	4.4%	5.3%	5.9%	7.2%	2.4%	3.4%	5.4%	3.7%	No significant change
15-29 yr old	count	3	7	3	4	5	6	1	2	3	3	
PWID	DLHD %	1.1%	2.7%	1.2%	1.5%	2.1%	2.5%	0.5%	1.1%	1.6%	1.6%	No significant change
Young (15-29) Black/AA men compared to others												
15-29 yr old	count	113	118	103	106	97	101	82	64	50	73	
Black/AA men (YBM)	pop	66,255	64,746	63,531	63,686	62,119	61,592	60,468	57,734	53,829	53,829	
	rate	170.6	182.3	162.1	166.4	156.2	164.0	135.6	110.9	92.9	135.6	-4.6% (-6.9%, -2.2%)
Other youth	count	30	32	31	29	27	37	35	25	22	24	
15-29	pop	112,960	112,326	112,497	113,429	114,130	114,123	114,313	115,303	109,180	109,180	
	rate	26.6	28.5	27.6	25.6	23.7	32.4	30.6	21.7	20.2	22.0	No significant change
30+ yrs old	count	119	113	112	122	112	92	87	86	109	91	
	pop	447,412	442,044	439,495	432,412	429,937	429,008	428,201	427,190	475,379	475,379	
	rate	26.6	25.6	25.5	28.2	26.1	21.4	20.3	20.1	22.9	19.1	-3.3% (-5.4%, -1.2%)

Measure	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	% 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	135	165	141	181	156	158	146	83	92	84	
HIV negative	DLHD %	51.5%	62.7%	57.3%	70.4%	66.7%	69.0%	71.9%	47.4%	50.5%	45.2%	No significant change
Negative test w/in 2yrs of diagnosis												
	count	104	131	115	132	113	105	102	54	59	59	
	DLHD %	39.7%	49.8%	46.7%	51.4%	48.3%	45.9%	50.2%	30.9%	32.4%	31.7%	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			35	54	61	52	50	30	31	32	
	DLHD %			14.2%	21.0%	26.1%	22.7%	24.6%	17.1%	17.0%	17.2%	No significant change
Late diagnosis	count	61	54	52	54	33	39	34	17	32	39	
	DLHD %	23.3%	20.5%	21.1%	21.0%	14.1%	17.0%	16.7%	9.7%	17.6%	21.0%	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 testing alerts into their Electronic Medical Record systems.												
Blood/Plasma center	count	17	8	8	12	12	21	18	12	3	18	
	DLHD %	6.4%	3.0%	3.2%	4.5%	5.0%	8.9%	8.7%	6.7%	1.6%	9.6%	No significant change
CBO	count	40	40	40	30	46	24	25	10	12	17	
	DLHD %	15.0%	15.2%	16.1%	11.3%	19.2%	10.2%	12.0%	5.6%	6.4%	9.1%	-7.0% (-11.7%, -2.1%)
ER	count	29	31	26	40	40	37	40	37	38	27	
	DLHD %	10.9%	11.8%	10.5%	15.0%	16.7%	15.7%	19.2%	20.7%	20.3%	14.4%	+5.9% (1.9%, 10.1%)
Local Health Department	count	47	31	20	28	24	26	38	21	19	10	
	DLHD %	17.7%	11.8%	8.1%	10.5%	10.0%	11.0%	18.3%	11.7%	10.2%	5.3%	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	87	110	90	109	97	99	82	80	91	97	
	DLHD %	33.2%	41.8%	36.6%	42.4%	41.5%	43.2%	40.4%	45.7%	50.0%	52.2%	+3.9% (1.5%, 6.4%)
8-90 day linkage	count	173	179	173	189	184	176	152	126	148	139	
	DLHD %	66.0%	68.1%	70.3%	73.5%	78.6%	76.9%	74.9%	72.0%	81.3%	74.7%	+1.8% (0.03%, 3.6%)
VS in 6mo of diagnosis	count	87	96	109	145	141	141	144	108	125	124	
	DLHD %	33.2%	36.5%	44.3%	56.4%	60.3%	61.6%	70.9%	61.7%	68.7%	66.7%	+8.3% (5.3%, 11.3%)
VS in 12mo of diagnosis	count	139	149	157	187	172	167	162	126	143	139	
	DLHD %	53.1%	56.7%	63.8%	72.8%	73.5%	72.9%	79.8%	72.0%	78.6%	74.7%	+4.1% (2.2%, 6.0%)

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