2021

WASHINGTON METROPOLITAN REGION ANNUAL HIV EPIDEMIOLOGICAL PROFILE

Data reported through

June 30, 2022

CENTER FOR HIV SURVEILLANCE, EPIDEMIOLOGY AND EVALUATION

Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration

Maryland
DEPARTMENT OF HEALTH

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Additional Information and Reporting Instructions

https://health.maryland.gov/phpa/OIDEOR/CHSE/Pages/reporting-material.aspx

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Section I – Summary of Analyses and Technical Notes

Highlights of Analyses

CHSEE in MDH is responsible for the collection, analysis, and dissemination of HIV surveillance data for the state of Maryland. The annual epidemiological profiles, fact sheets, maps and other reports are provided to summarize information about the HIV epidemic in Maryland.
All rates presented below are per 100,000 population.

HIV Diagnoses

During 2021, there were 385 reported HIV diagnoses in the Washington Metropolitan Region. The Washington Metropolitan Region includes Calvert County, Charles County, Frederick County, Montgomery County, and Prince George's County. Data presented below describe HIV diagnoses in the Washington Metropolitan Region, among people ages 13 years and older, during 2021.

- Geographic distribution: Prince George's County accounted for the highest number (244, 63.4%) and the highest rate (30.4) of HIV diagnoses.
- Age: Persons aged 30-39 years accounted for the highest number (125, 32.5%) of HIV diagnoses and the highest rate (35.8).
- Sex at Birth: Males accounted for the highest number (282, 73.2%) of HIV diagnoses. The rate among males was 27.3 and 9.3 among females.
- Race/Ethnicity: Non-Hispanic Black people accounted for the highest number (277, 71.9%) and the highest rate (35.7).
- Exposure Category: Male-to-male sexual contact accounted for the highest number (204, 53.0%) of diagnoses.

People Living with Diagnosed HIV

At the end of 2021, there were 13,094 people living with diagnosed HIV in the Washington Metropolitan Region. Data presented below describe people living with diagnosed HIV, aged 13 years and older, in the Washington Metropolitan Region.

- Geographic distribution: Prince George's County accounted for the highest number (8,107, 61.9%) of people living with diagnosed HIV and the highest rate (1,010.5).
- Age: Persons aged 50-59 years accounted for the highest number (3,586, 27.4%) of people living with diagnosed HIV and the highest rate (998.1).
- Sex at Birth: Males accounted for the highest number (8,633, 65.9%) of people living with diagnosed HIV. The rate among males was 837.3 and 402.0 among females.
- Race/Ethnicity: Non-Hispanic Black people accounted for the highest number (9,854, 75.3%) of the people living with diagnosed HIV. The highest rate was among non-Hispanic Multiracial persons (1,316.5).
- Exposure Category: Male-to-male sexual contact accounted for the highest number (5,921, 45.2%) of the total people living with diagnosed HIV.

Engagement in HIV Care

- HIV diagnosed: Among people living with HIV in the Washington Metropolitan region, it is estimated that 88.5 percent have been diagnosed and an estimated 1,701 people with HIV remain undiagnosed.
- Linked to care: During 2021, 84.2 percent of reported HIV diagnoses were linked to HIV care within one month of their HIV diagnosis.
- Retained in care: Among people living with diagnosed HIV, 75.6 percent were retained in care during 2021.
- Viral suppression: In 2021, 62.1 percent of people living with diagnosed HIV achieved viral suppression.

Technical Notes

HIV/AIDS Reporting

The Maryland HIV/AIDS Reporting Act of 2007 requires that people living with diagnosed HIV be reported by name to MDH. As per the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02, physicians are required to report patients in their care with diagnoses of HIV or AIDS and babies born to mothers living with HIV, clinical and infection control practitioners in medical and correctional facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS, and laboratory directors are required to report all HIV diagnostic and HIV-related monitoring test results, including HIV negative test results.

Report Changes

In order to be responsive to changing data needs, the following update has been made to this report:

- The terminology for gender identity has been updated.
- Viral suppression within six months after HIV diagnosis has been added to all tables describing reported HIV diagnoses (Tables 2, 6, 10, and 18) and the HIV care continuums (Figure 8A-D, and Figure 9). As a result, linkage to HIV care within three months has been removed from all tables and figures describing reported HIV diagnoses but is available upon request.

Data Specifications

Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are collected on all people with HIV who were residents of the state of Maryland or received HIV care in Maryland. Data are presented for people who were Maryland residents at the time of their HIV diagnosis in 2021 and for people who were living with HIV and were current residents of Maryland as of December 31, 2021.

Data presented were reported to the MDH through June 30, 2022. Reported new diagnoses and estimates of people living with diagnosed HIV are as of December 31, 2021.

This report presents data with a six-month reporting delay. This lag allows for time to report case and laboratory data and to complete investigations. Due to reporting delays, estimates by exposure category and mortality are preliminary.

Please read all table titles and footnotes carefully to ensure a complete understanding of the displayed data. A glossary of terms is also available.

COVID-19 and HIV Surveillance Data

Data for 2020 and 2021 should be interpreted with caution due to the impact of the Coronavirus Disease 2019 (COVID-19) pandemic on access to HIV testing and care-related services.

The following HIV morbidity estimates may have been affected by the COVID-19 pandemic.

- Incidence (new HIV infections or transmissions) estimates might be lower due to significant declines in the number of new HIV diagnoses.
- Declines in HIV diagnoses might not represent declines in new HIV infections, but rather decreases and/or delays in testing or changes in testing modality (e.g., self-testing).
- Caution should be used when interpreting prevalence (people living with HIV) estimates. Fewer HIV diagnoses and more deaths (resulting in lower prevalence) may be due to COVID-19 and not HIV activities.
- Declines in linkage to care, retention in care, and viral suppression estimates may be due to lack of laboratory testing during care visits (e.g., telemedicine) and/or changes in testing modality (e.g., self-testing).

Undiagnosed HIV Infections

The Centers for Disease Control and Prevention (CDC), using national surveillance data, estimates that the number of people living with undiagnosed HIV infection,

among people living with HIV, is 13.3 percent in the United States.[1] Applying the same estimation method to Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 10.1 percent in 2020.

AIDS Diagnoses

CD4+ T-lymphocyte tests are measures of a person's immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood, if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent, or if a person has been diagnosed with an opportunistic infection.

Mortality

People are assumed to be alive unless reported as deceased. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting of non-AIDS deaths and out-of-state deaths. Most deaths are reported within two years.

Engagement in HIV Care

Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. The presence of these lab tests is used as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Viral Suppression

Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of viral load, such as less than 200 copies per milliliter of blood, is known as viral suppression. Estimates of viral suppression among people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

Geographic Distribution

Residence at diagnosis is used exclusively to describe new diagnoses. Estimates of people living with diagnosed HIV use current residence. Current residence estimates are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care since prior to 2009. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates. Current residence assignments are constantly updated as new information becomes available and represent the best information available at the time of the estimate.

Residents of Correctional Facilities

New diagnoses of HIV and people living with diagnosed HIV who were reported to be residing in local jails or detention centers are presented, whenever possible, as residing at their home address. New diagnoses of HIV and people living with diagnosed HIV who were reported to be residing in a state or federal prison in Maryland are presented as residing in a separate "Corrections" jurisdiction.

Gender Identity

Historically, it has been difficult to present data by gender. No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender. This report is likely underreporting the number gender diverse people living with diagnosed HIV because of challenges in accurately identifying and reporting gender in HIV surveillance.

Race/Ethnicity

The completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity

[1]Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2015–2019. HIV Surveillance Supplemental Report 2021;26(No. 1). http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published May 2021. Accessed May 2021.

categories may vary across reporting sources and some reporting sources do not collect or have complete data on race/ethnicity. In this report, Hispanic/Latino persons can be of any race.

Country of Birth

The completeness of reporting a person's country of birth is variable in surveillance data. Not all reporting sources collect or have complete data on nativity. In addition, some individuals may immigrate to the United States with HIV. HIV testing data from other countries is often unavailable for these people; therefore, they are counted as a new diagnosis following their first HIV related lab test in the United States, even if they were first diagnosed elsewhere.

HIV Exposure Categories

The CDC developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and counted only once. Men who report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

Sources of Data

Information on HIV and AIDS diagnoses, including residence, age, race/ethnicity, sex at birth, gender identity, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from MDH's Enhanced HIV/AIDS Reporting System (eHARS), as of June 30, 2022.

Population data by sex, age, and race/ethnicity are from the July 1, 2021 United States Census Estimates. Population data by country-of-birth are from the Census Bureau's 2020 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple races and Non-Hispanic other race from the Census were combined into one group.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of people living with HIV, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g., ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than five people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Tables presenting clinical/laboratory information for reported new diagnoses by ZIP code will present only ZIP codes with at least five people. Exposure/risk data is not suppressed due to statistical adjustments resulting in the presentation of estimated or probable risk.

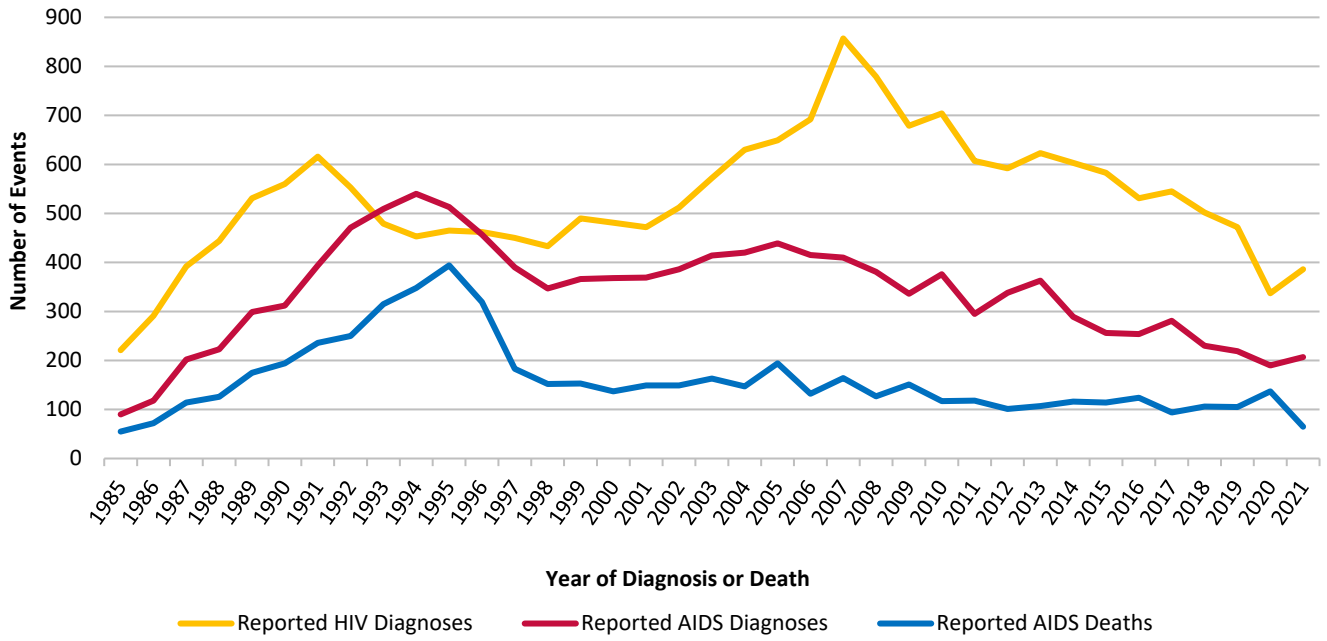
Multiple Imputation

Not all exposure data is reported and is therefore missing in some instances. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

Section II – Trends 1985-2021

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, among Residents at Diagnosis, 1985-2021, Reported through June 30, 2022

People Diagnosed with HIV (Reported HIV Diagnoses) by Year of HIV Diagnosis, People Diagnosed with HIV with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and People Diagnosed with HIV with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2021, as Reported through June 30, 2022



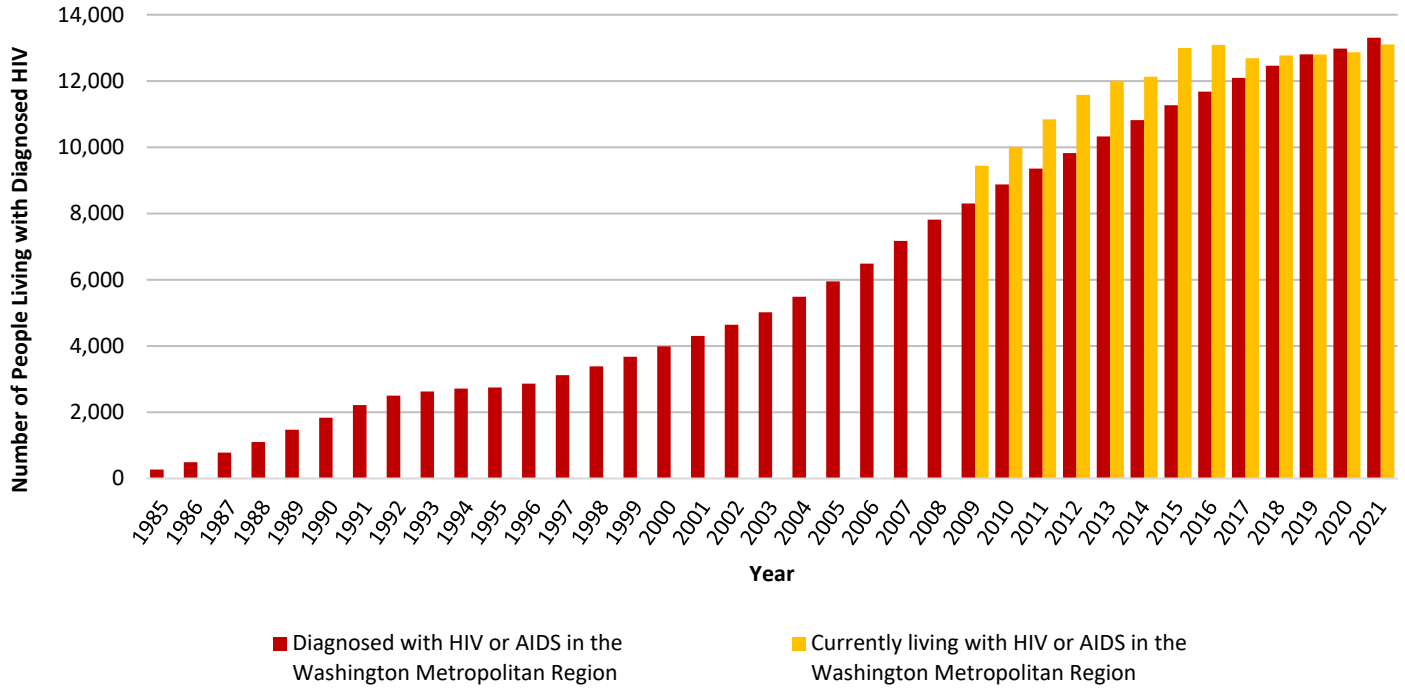
Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	<1985	128	62	**2003**	572	414	163
1985	1985	221	90	**2004**	630	420	147
1986	1986	291	118	**2005**	649	439	194
1987	1987	392	202	**2006**	692	415	132
1988	1988	444	223	**2007**	857	410	164
1989	1989	531	299	**2008**	779	381	127
1990	1990	560	312	**2009**	679	336	151
1991	1991	616	394	**2010**	704	376	117
1992	1992	553	471	**2011**	607	295	118
1993	1993	479	509	**2012**	592	338	101
1994	1994	453	540	**2013**	623	363	107
1995	1995	465	513	**2014**	603	289	116
1996	1996	462	457	**2015**	583	256	114
1997	1997	450	390	**2016**	531	254	124
1998	1998	433	347	**2017**	545	281	94
1999	1999	490	366	**2018**	502	230	106
2000	2000	481	368	**2019**	472	219	105
2001	2001	472	369	**2020***	337	190	137
2002	2002	512	386	**2021***	386	207	65
				Total	19,776	12,529	5,932

*2020-2021 reported AIDS deaths are preliminary.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 2 – Trends in People Living with Diagnosed HIV, among Residents at Diagnosis, 1985-2021, Reported through June 30, 2022

People Living with Diagnosed HIV in the Washington Metropolitan Region and Not Reported to have Died as of December 31st of Each Year (People who were Diagnosed with HIV or AIDS in the Washington Metropolitan Region and/or People who are Currently Living with Diagnosed HIV in the Washington Metropolitan Region) from 1985 through 2021, as Reported through June 30, 2022

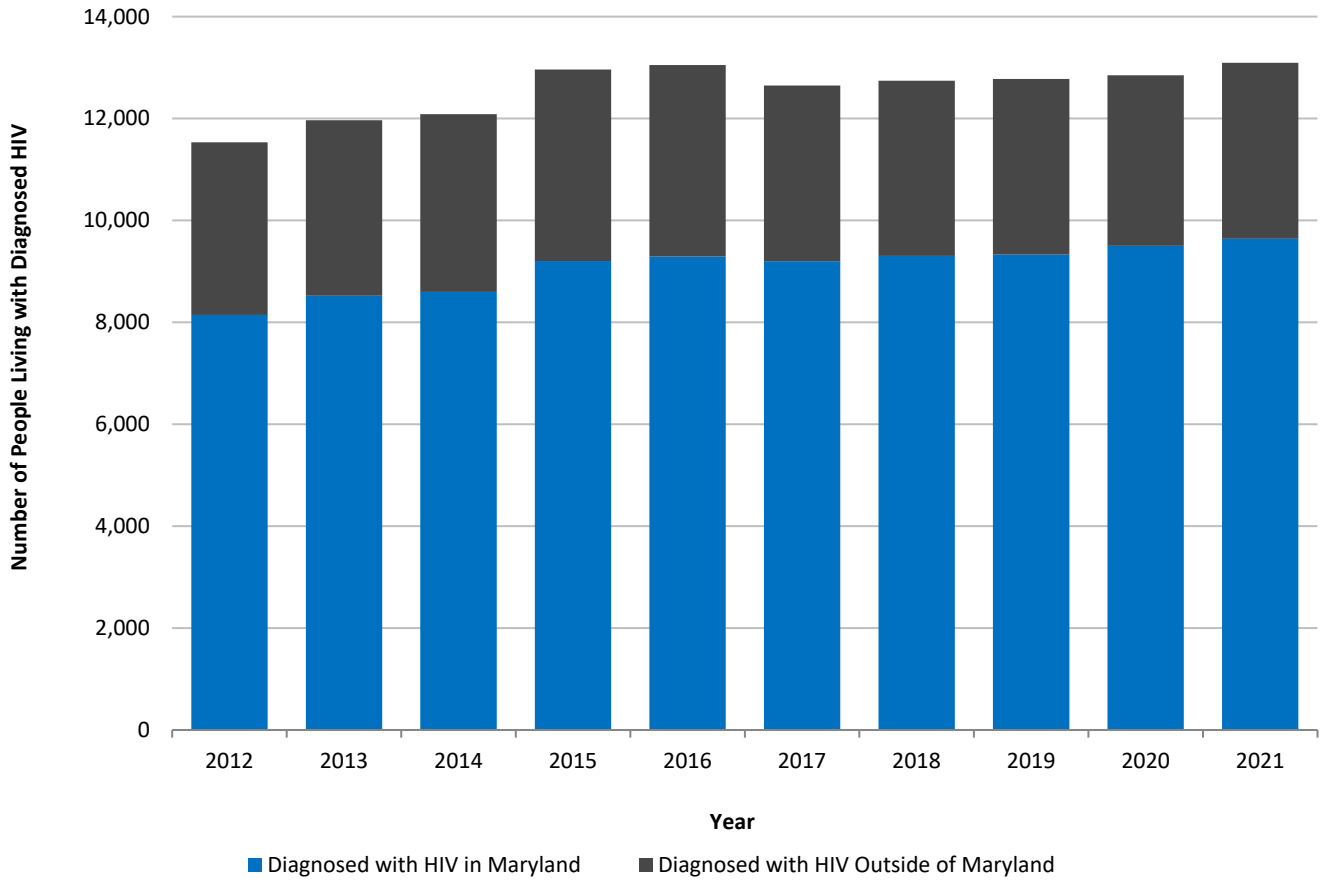


Year	People Living with Diagnosed HIV		Year	People Living with Diagnosed HIV	
	Diagnosed with HIV or AIDS in the Washington Metropolitan Region	Current Residents		Diagnosed with HIV or AIDS in the Washington Metropolitan Region	Current Residents
1985	272	--	**2003**	5,018	--
1986	492	--	**2004**	5,486	--
1987	781	--	**2005**	5,948	--
1988	1,102	--	**2006**	6,485	--
1989	1,473	--	**2007**	7,170	--
1990	1,835	--	**2008**	7,814	--
1991	2,216	--	**2009**	8,303	9,436
1992	2,501	--	**2010**	8,877	10,012
1993	2,629	--	**2011**	9,356	10,844
1994	2,713	--	**2012**	9,824	11,584
1995	2,750	--	**2013**	10,328	12,009
1996	2,863	--	**2014**	10,820	12,129
1997	3,120	--	**2015**	11,270	12,998
1998	3,385	--	**2016**	11,679	13,090
1999	3,673	--	**2017**	12,093	12,688
2000	3,990	--	**2018**	12,462	12,771
2001	4,302	--	**2019**	12,805	12,800
2002	4,640	--	**2020**	12,978	12,867
			2021	13,305	13,106

Note. Current residence for people living with diagnosed HIV is unavailable prior to 2009.

Figure 3 – Trends in People Aged 13+ Living with Diagnosed HIV, among Current Residents, 2012-2021, Reported through June 30, 2022

People Living with Diagnosed HIV in the Washington Metropolitan Region and Not Reported to have Died as of December 31st of Each Year from 2012 through 2021, as Reported through June 30, 2022

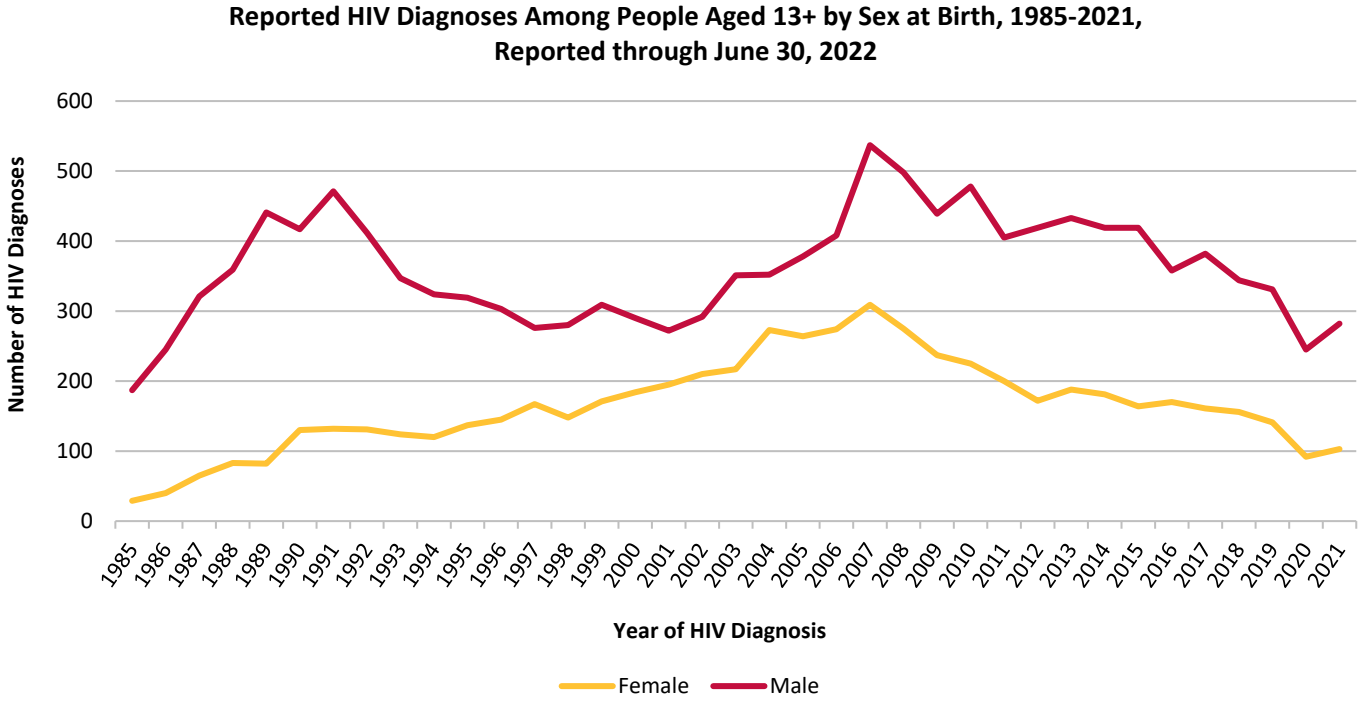


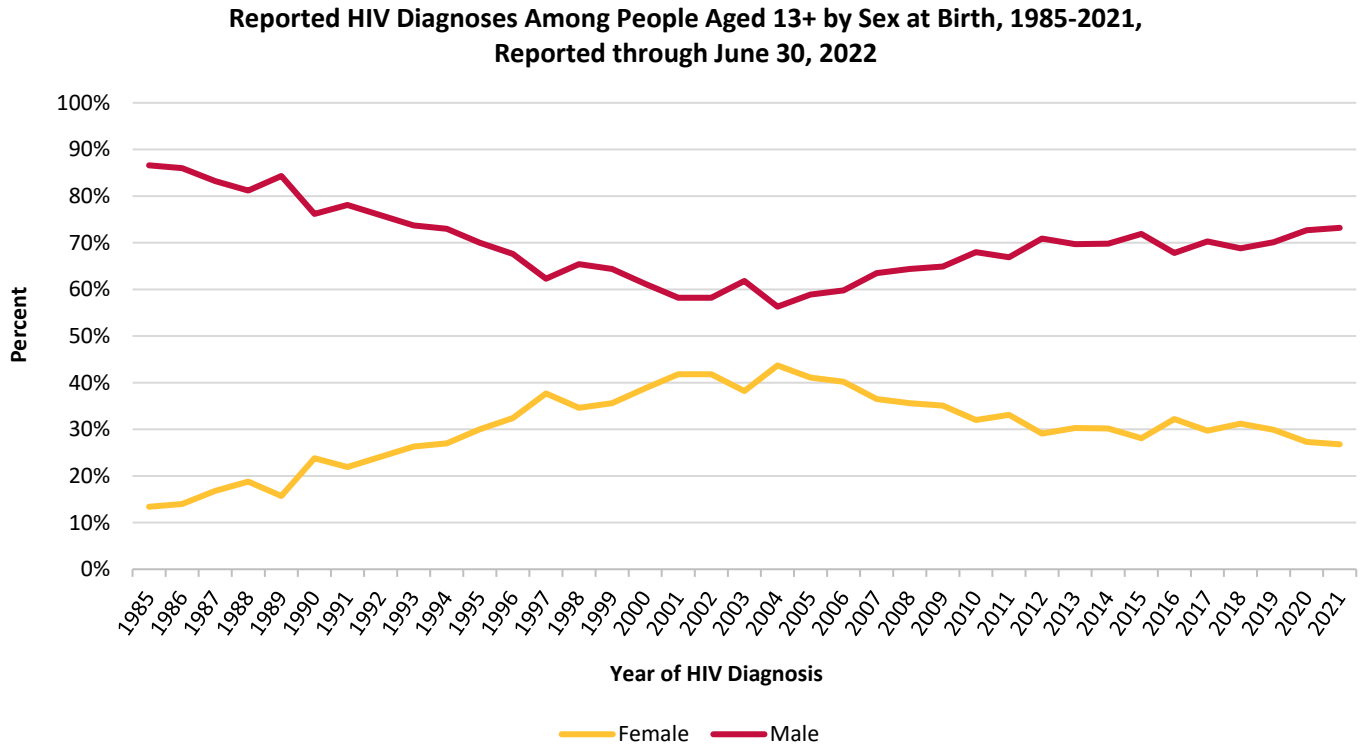
Year	Population Aged 13+	Washington Metropolitan Region Residents Aged 13+ as of December 31st of the Specified Year			
		Diagnosed with HIV in Maryland	Diagnosed with HIV Outside of Maryland	Total	Rate
2012	1,967,111	8,147	3,388	11,535	586.4
2013	1,988,502	8,521	3,446	11,967	601.8
2014	2,007,310	8,597	3,489	12,086	602.1
2015	2,024,455	9,205	3,757	12,962	640.3
2016	2,036,826	9,292	3,757	13,049	640.7
2017	2,052,184	9,199	3,450	12,649	616.4
2018	2,062,029	9,305	3,436	12,741	617.9
2019	2,072,314	9,330	3,447	12,777	616.6
2020	2,078,893	9,503	3,347	12,850	618.1
2021	2,140,916	9,639	3,455	13,094	611.6

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 4 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2021, Reported through June 30, 2022

Number and Percent by Sex at Birth of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2021, as Reported through June 30, 2022



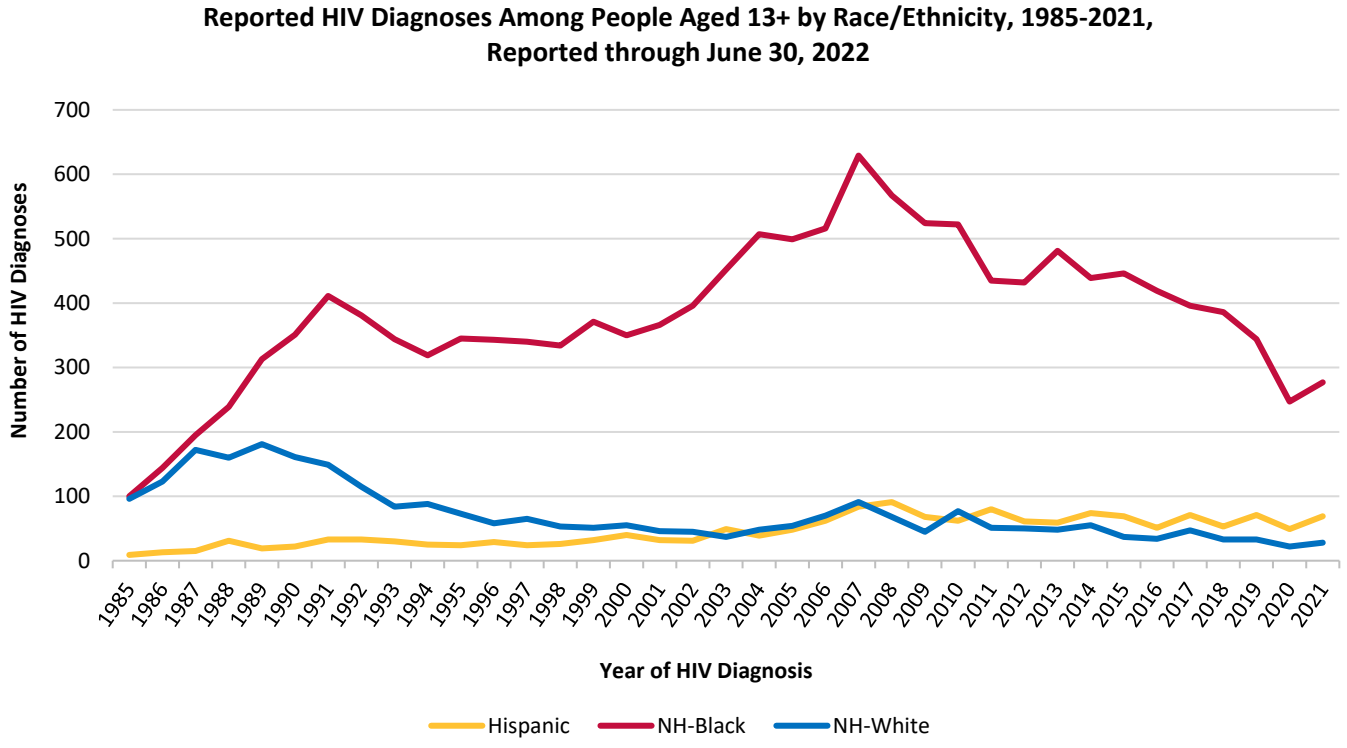


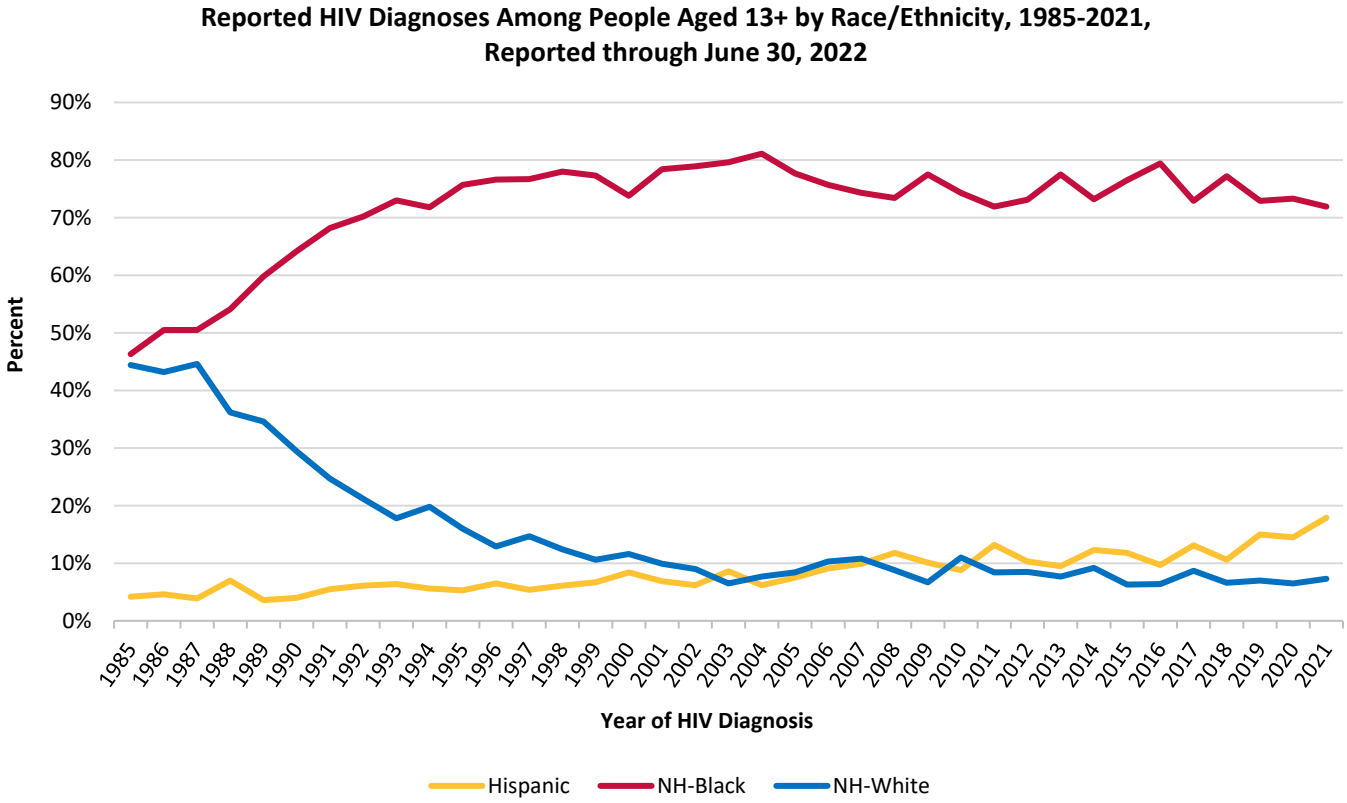
Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+				
	Number	Sex at Birth			
		Female		Male	
		Number	Percent	Number	Percent
<1985	125	11	8.8%	114	91.2%
1985	216	29	13.4%	187	86.6%
1986	285	40	14.0%	245	86.0%
1987	386	65	16.8%	321	83.2%
1988	442	83	18.8%	359	81.2%
1989	523	82	15.7%	441	84.3%
1990	547	130	23.8%	417	76.2%
1991	603	132	21.9%	471	78.1%
1992	543	131	24.1%	412	75.9%
1993	471	124	26.3%	347	73.7%
1994	444	120	27.0%	324	73.0%
1995	456	137	30.0%	319	70.0%
1996	448	145	32.4%	303	67.6%
1997	443	167	37.7%	276	62.3%
1998	428	148	34.6%	280	65.4%
1999	480	171	35.6%	309	64.4%
2000	474	184	38.8%	290	61.2%
2001	467	195	41.8%	272	58.2%
2002	502	210	41.8%	292	58.2%
2003	568	217	38.2%	351	61.8%
2004	625	273	43.7%	352	56.3%
2005	642	264	41.1%	378	58.9%
2006	682	274	40.2%	408	59.8%
2007	846	309	36.5%	537	63.5%
2008	773	275	35.6%	498	64.4%
2009	676	237	35.1%	439	64.9%
2010	703	225	32.0%	478	68.0%
2011	605	200	33.1%	405	66.9%
2012	591	172	29.1%	419	70.9%
2013	621	188	30.3%	433	69.7%
2014	600	181	30.2%	419	69.8%
2015	583	164	28.1%	419	71.9%
2016	528	170	32.2%	358	67.8%
2017	543	161	29.7%	382	70.3%
2018	500	156	31.2%	344	68.8%
2019	472	141	29.9%	331	70.1%
2020	337	92	27.3%	245	72.7%
2021	385	103	26.8%	282	73.2%
Total	19,563	6,106	31.2%	13,457	68.8%

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 5 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2021, Reported through June 30, 2022

Number and Percent by Race/Ethnicity of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2021, as Reported through June 30, 2022





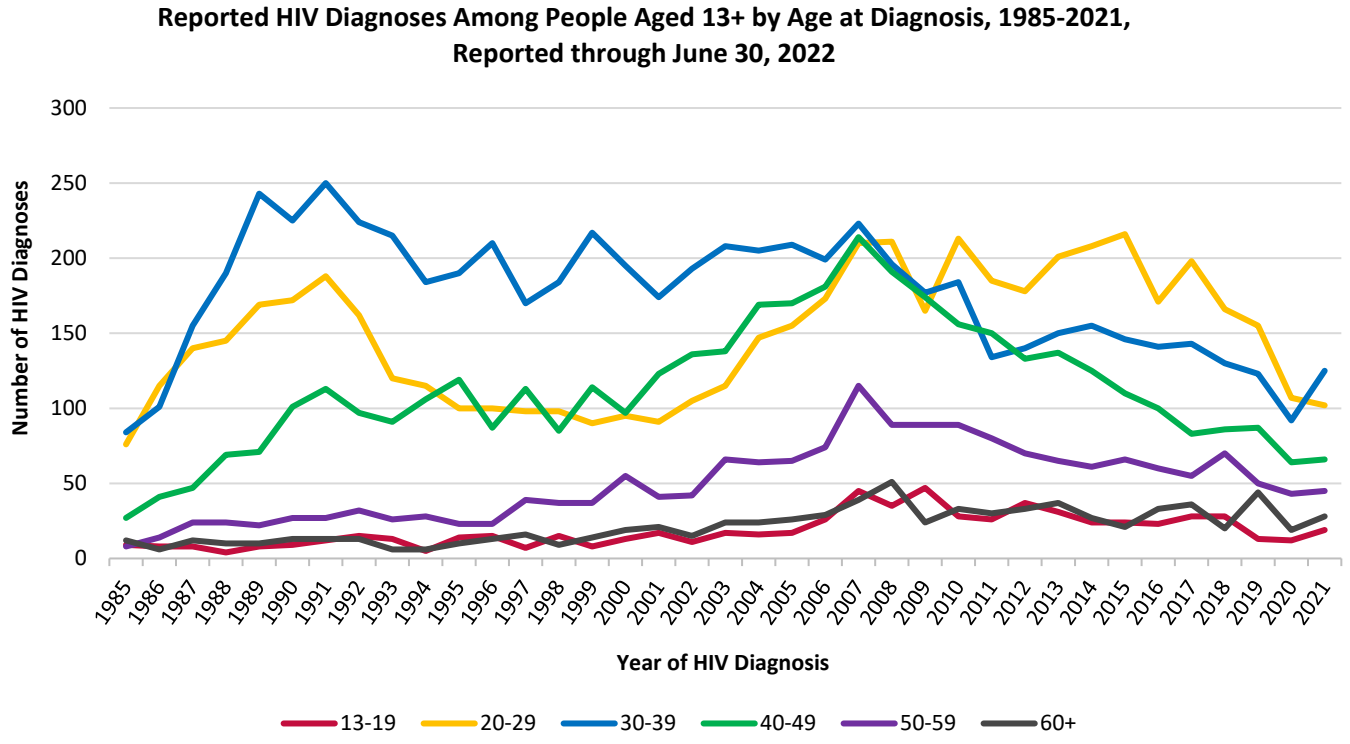
NH: Non-Hispanic
NH-Asian, NH-American Indian, NH-Native Hawaiian/Other Pacific Islander, NH-Multiracial/Other not shown

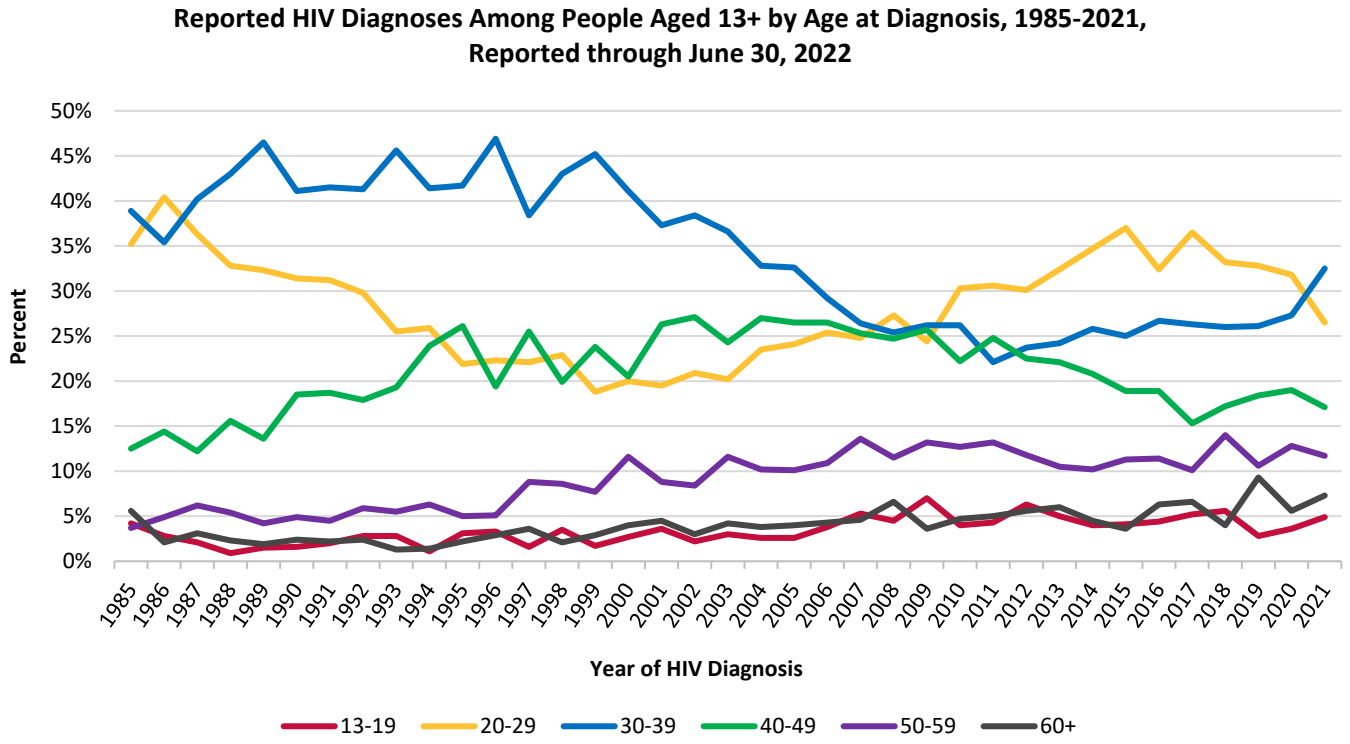
Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+								
		Race/Ethnicity							
	No.	Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	125	4	3.2%	72	57.6%	43	34.4%	6	4.8%
1985	216	9	4.2%	100	46.3%	96	44.4%	11	5.1%
1986	285	13	4.6%	144	50.5%	123	43.2%	5	1.8%
1987	386	15	3.9%	195	50.5%	172	44.6%	4	1.0%
1988	442	31	7.0%	239	54.1%	160	36.2%	12	2.7%
1989	523	19	3.6%	313	59.8%	181	34.6%	10	1.9%
1990	547	22	4.0%	351	64.2%	161	29.4%	13	2.4%
1991	603	33	5.5%	411	68.2%	149	24.7%	10	1.7%
1992	543	33	6.1%	381	70.2%	115	21.2%	14	2.6%
1993	471	30	6.4%	344	73.0%	84	17.8%	13	2.8%
1994	444	25	5.6%	319	71.8%	88	19.8%	12	2.7%
1995	456	24	5.3%	345	75.7%	73	16.0%	14	3.1%
1996	448	29	6.5%	343	76.6%	58	12.9%	18	4.0%
1997	443	24	5.4%	340	76.7%	65	14.7%	14	3.2%
1998	428	26	6.1%	334	78.0%	53	12.4%	15	3.5%
1999	480	32	6.7%	371	77.3%	51	10.6%	26	5.4%
2000	474	40	8.4%	350	73.8%	55	11.6%	29	6.1%
2001	467	32	6.9%	366	78.4%	46	9.9%	23	4.9%
2002	502	31	6.2%	396	78.9%	45	9.0%	30	6.0%
2003	568	49	8.6%	452	79.6%	37	6.5%	30	5.3%
2004	625	39	6.2%	507	81.1%	48	7.7%	31	5.0%
2005	642	48	7.5%	499	77.7%	54	8.4%	41	6.4%
2006	682	62	9.1%	516	75.7%	70	10.3%	34	5.0%
2007	846	84	9.9%	629	74.3%	91	10.8%	42	5.0%
2008	773	91	11.8%	567	73.4%	68	8.8%	47	6.1%
2009	676	68	10.1%	524	77.5%	45	6.7%	39	5.8%
2010	703	62	8.8%	522	74.3%	77	11.0%	42	6.0%
2011	605	80	13.2%	435	71.9%	51	8.4%	39	6.4%
2012	591	61	10.3%	432	73.1%	50	8.5%	48	8.1%
2013	621	59	9.5%	481	77.5%	48	7.7%	33	5.3%
2014	600	74	12.3%	439	73.2%	55	9.2%	32	5.3%
2015	583	69	11.8%	446	76.5%	37	6.3%	31	5.3%
2016	528	51	9.7%	419	79.4%	34	6.4%	24	4.5%
2017	543	71	13.1%	396	72.9%	47	8.7%	29	5.3%
2018	500	53	10.6%	386	77.2%	33	6.6%	28	5.6%
2019	472	71	15.0%	344	72.9%	33	7.0%	24	5.1%
2020	337	49	14.5%	247	73.3%	22	6.5%	19	5.6%
2021	385	69	17.9%	277	71.9%	28	7.3%	11	2.9%
Total	19,563	1,682	8.6%	14,232	72.7%	2,746	14.0%	903	4.6%

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 6 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Age at HIV Diagnosis, 1985-2021, Reported through June 30, 2022

Number and Percent by Age at HIV Diagnosis of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2021, as Reported through June 30, 2022



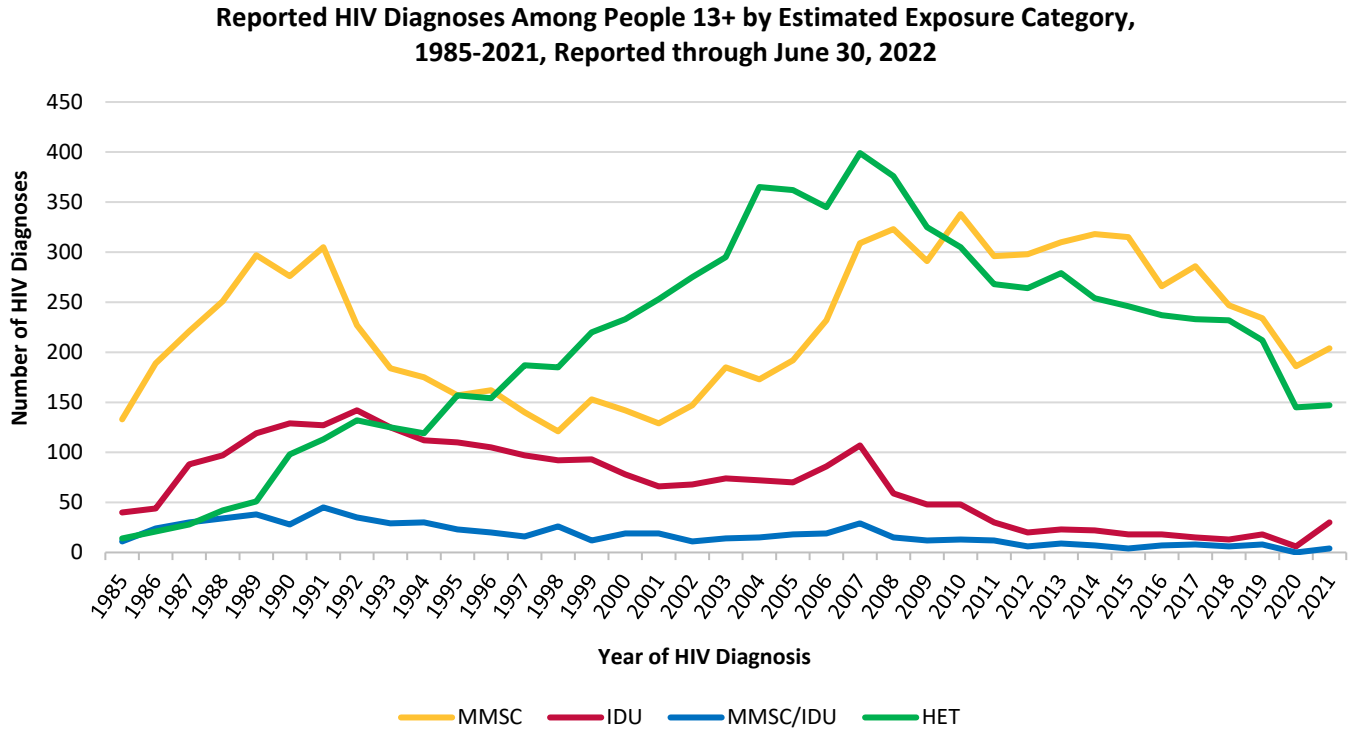


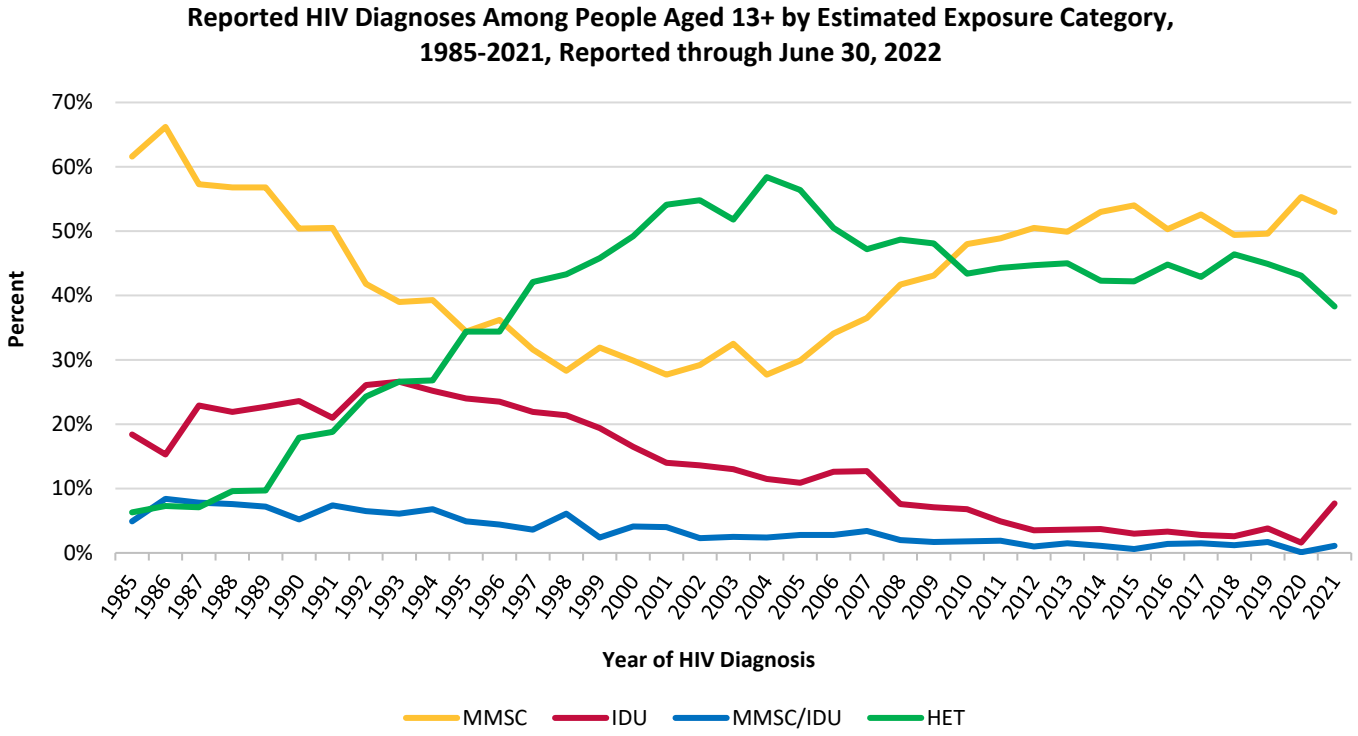
Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+												
		Age at HIV Diagnosis											
	No.	13-19		20-29		30-39		40-49		50-59		60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	125	14	11.2%	46	36.8%	37	29.6%	21	16.8%	4	3.2%	3	2.4%
1985	216	9	4.2%	76	35.2%	84	38.9%	27	12.5%	8	3.7%	12	5.6%
1986	285	8	2.8%	115	40.4%	101	35.4%	41	14.4%	14	4.9%	6	2.1%
1987	386	8	2.1%	140	36.3%	155	40.2%	47	12.2%	24	6.2%	12	3.1%
1988	442	4	0.9%	145	32.8%	190	43.0%	69	15.6%	24	5.4%	10	2.3%
1989	523	8	1.5%	169	32.3%	243	46.5%	71	13.6%	22	4.2%	10	1.9%
1990	547	9	1.6%	172	31.4%	225	41.1%	101	18.5%	27	4.9%	13	2.4%
1991	603	12	2.0%	188	31.2%	250	41.5%	113	18.7%	27	4.5%	13	2.2%
1992	543	15	2.8%	162	29.8%	224	41.3%	97	17.9%	32	5.9%	13	2.4%
1993	471	13	2.8%	120	25.5%	215	45.6%	91	19.3%	26	5.5%	6	1.3%
1994	444	5	1.1%	115	25.9%	184	41.4%	106	23.9%	28	6.3%	6	1.4%
1995	456	14	3.1%	100	21.9%	190	41.7%	119	26.1%	23	5.0%	10	2.2%
1996	448	15	3.3%	100	22.3%	210	46.9%	87	19.4%	23	5.1%	13	2.9%
1997	443	7	1.6%	98	22.1%	170	38.4%	113	25.5%	39	8.8%	16	3.6%
1998	428	15	3.5%	98	22.9%	184	43.0%	85	19.9%	37	8.6%	9	2.1%
1999	480	8	1.7%	90	18.8%	217	45.2%	114	23.8%	37	7.7%	14	2.9%
2000	474	13	2.7%	95	20.0%	195	41.1%	97	20.5%	55	11.6%	19	4.0%
2001	467	17	3.6%	91	19.5%	174	37.3%	123	26.3%	41	8.8%	21	4.5%
2002	502	11	2.2%	105	20.9%	193	38.4%	136	27.1%	42	8.4%	15	3.0%
2003	568	17	3.0%	115	20.2%	208	36.6%	138	24.3%	66	11.6%	24	4.2%
2004	625	16	2.6%	147	23.5%	205	32.8%	169	27.0%	64	10.2%	24	3.8%
2005	642	17	2.6%	155	24.1%	209	32.6%	170	26.5%	65	10.1%	26	4.0%
2006	682	26	3.8%	173	25.4%	199	29.2%	181	26.5%	74	10.9%	29	4.3%
2007	846	45	5.3%	210	24.8%	223	26.4%	214	25.3%	115	13.6%	39	4.6%
2008	773	35	4.5%	211	27.3%	196	25.4%	191	24.7%	89	11.5%	51	6.6%
2009	676	47	7.0%	165	24.4%	177	26.2%	174	25.7%	89	13.2%	24	3.6%
2010	703	28	4.0%	213	30.3%	184	26.2%	156	22.2%	89	12.7%	33	4.7%
2011	605	26	4.3%	185	30.6%	134	22.1%	150	24.8%	80	13.2%	30	5.0%
2012	591	37	6.3%	178	30.1%	140	23.7%	133	22.5%	70	11.8%	33	5.6%
2013	621	31	5.0%	201	32.4%	150	24.2%	137	22.1%	65	10.5%	37	6.0%
2014	600	24	4.0%	208	34.7%	155	25.8%	125	20.8%	61	10.2%	27	4.5%
2015	583	24	4.1%	216	37.0%	146	25.0%	110	18.9%	66	11.3%	21	3.6%
2016	528	23	4.4%	171	32.4%	141	26.7%	100	18.9%	60	11.4%	33	6.3%
2017	543	28	5.2%	198	36.5%	143	26.3%	83	15.3%	55	10.1%	36	6.6%
2018	500	28	5.6%	166	33.2%	130	26.0%	86	17.2%	70	14.0%	20	4.0%
2019	472	13	2.8%	155	32.8%	123	26.1%	87	18.4%	50	10.6%	44	9.3%
2020	337	12	3.6%	107	31.8%	92	27.3%	64	19.0%	43	12.8%	19	5.6%
2021	385	19	4.9%	102	26.5%	125	32.5%	66	17.1%	45	11.7%	28	7.3%
Total	19,563	701	3.6%	5,501	28.1%	6,521	33.3%	4,192	21.4%	1,849	9.5%	799	4.1%

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Figure 7 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2021, Reported through June 30, 2022

Number and Percent by Estimated Exposure Category§ of People Diagnosed with HIV, Aged 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2021, as Reported through June 30, 2022





Other exposure category not shown.

§ Multiple imputation was used to estimate and adjust for missing exposure category.

Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+											
	No.	% with No Reported Exposure[¥]	Estimated Exposure Category[§]									
			MMSC		IDU		MMSC/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	125	8.8%	85	67.9%	17	13.7%	11	8.6%	8	6.6%	4	3.2%
1985	216	6.9%	133	61.6%	40	18.4%	11	4.9%	14	6.3%	19	8.8%
1986	285	3.9%	189	66.2%	44	15.3%	24	8.4%	21	7.3%	8	2.8%
1987	386	3.6%	221	57.3%	88	22.9%	30	7.8%	28	7.1%	19	4.9%
1988	442	6.3%	251	56.8%	97	21.9%	34	7.6%	42	9.6%	18	4.1%
1989	523	7.1%	297	56.8%	119	22.7%	38	7.2%	51	9.7%	19	3.6%
1990	547	4.8%	276	50.4%	129	23.6%	28	5.2%	98	17.9%	16	2.9%
1991	603	7.3%	305	50.5%	127	21.0%	45	7.4%	113	18.8%	14	2.3%
1992	543	10.9%	227	41.8%	142	26.1%	35	6.5%	132	24.3%	7	1.3%
1993	471	9.1%	184	39.0%	125	26.6%	29	6.1%	125	26.6%	8	1.7%
1994	444	9.2%	175	39.3%	112	25.2%	30	6.8%	119	26.8%	9	2.0%
1995	456	12.1%	157	34.4%	110	24.0%	23	4.9%	157	34.4%	10	2.2%
1996	448	15.2%	162	36.2%	105	23.5%	20	4.4%	154	34.4%	7	1.6%
1997	443	15.1%	140	31.6%	97	21.9%	16	3.6%	187	42.1%	3	0.7%
1998	428	18.0%	121	28.3%	92	21.4%	26	6.1%	185	43.3%	4	0.9%
1999	480	15.6%	153	31.9%	93	19.4%	12	2.4%	220	45.8%	3	0.6%
2000	474	17.5%	142	29.9%	78	16.5%	19	4.1%	233	49.2%	2	0.4%
2001	467	16.3%	129	27.7%	66	14.0%	19	4.0%	253	54.1%	1	0.2%
2002	502	13.3%	147	29.2%	68	13.6%	11	2.3%	275	54.8%	1	0.2%
2003	568	13.4%	185	32.5%	74	13.0%	14	2.5%	295	51.8%	1	0.2%
2004	625	19.8%	173	27.7%	72	11.5%	15	2.4%	365	58.4%	0	0.0%
2005	642	21.3%	192	29.9%	70	10.9%	18	2.8%	362	56.4%	0	0.0%
2006	682	27.6%	232	34.1%	86	12.6%	19	2.8%	345	50.5%	0	0.0%
2007	846	30.1%	309	36.5%	107	12.7%	29	3.4%	399	47.2%	2	0.2%
2008	773	37.0%	323	41.7%	59	7.6%	15	2.0%	376	48.7%	0	0.0%
2009	676	36.8%	291	43.1%	48	7.1%	12	1.7%	325	48.1%	0	0.0%
2010	703	37.3%	338	48.0%	48	6.8%	13	1.8%	305	43.4%	0	0.0%
2011	605	37.4%	296	48.9%	30	4.9%	12	1.9%	268	44.3%	0	0.0%
2012	591	23.7%	298	50.5%	20	3.5%	6	1.0%	264	44.7%	2	0.3%
2013	621	21.1%	310	49.9%	23	3.6%	9	1.5%	279	45.0%	0	0.0%
2014	600	19.3%	318	53.0%	22	3.7%	7	1.1%	254	42.3%	0	0.0%
2015	583	13.2%	315	54.0%	18	3.0%	4	0.6%	246	42.2%	1	0.2%
2016	528	16.7%	266	50.3%	18	3.3%	7	1.4%	237	44.8%	1	0.2%
2017	543	17.5%	286	52.6%	15	2.8%	8	1.5%	233	42.9%	1	0.2%
2018	500	14.8%	247	49.4%	13	2.6%	6	1.2%	232	46.4%	2	0.4%
2019	472	25.2%	234	49.6%	18	3.8%	8	1.7%	212	44.9%	0	0.0%
2020	337	14.5%	186	55.3%	6	1.6%	0	0.1%	145	43.1%	0	0.0%
2021	385	49.9%	204	53.0%	30	7.7%	4	1.1%	147	38.3%	0	0.0%
Total	19,563	19.3%	8,497	43.4%	2,526	12.9%	667	3.4%	7,704	39.4%	182	0.9%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

[¥]Percent with no reported exposure prior to multiple imputation adjustment.

Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of people missing transmission category after multiple imputation.

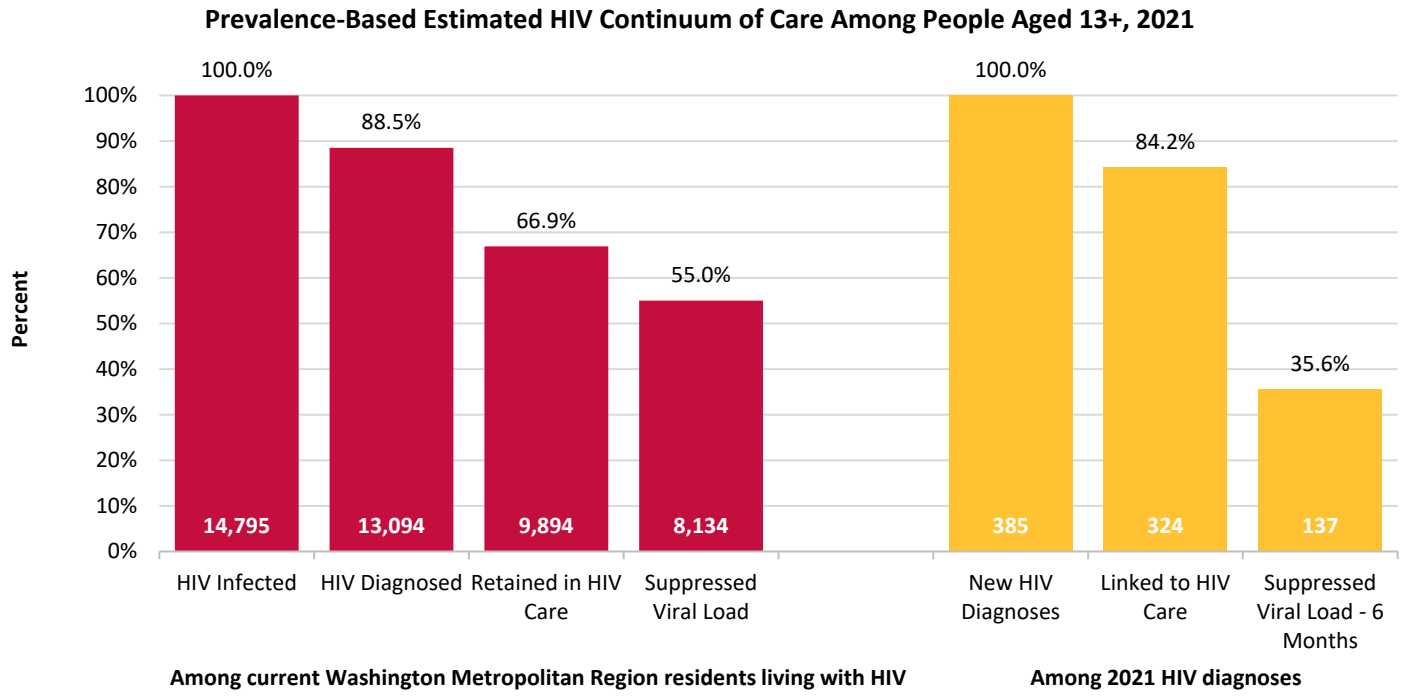
Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.[1] utilize a continuum of care "cascade" to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 8 – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Washington Metropolitan Region Residents Aged 13+, Reported through June 30, 2022

The prevalence-based Washington Metropolitan Region Engagement in HIV Care Cascades (below) apply the CDC CD4 depletion model to Maryland surveillance data, reported through June 30, 2022, to estimate the number of people living with undiagnosed HIV (11.5%) and the estimated number of people living with HIV currently residing in the Washington Metropolitan Region. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Washington Metropolitan Region on December 31, 2021 and the number and percentage of new HIV diagnoses in 2021 who belong to each of the stages of engagement in HIV care.



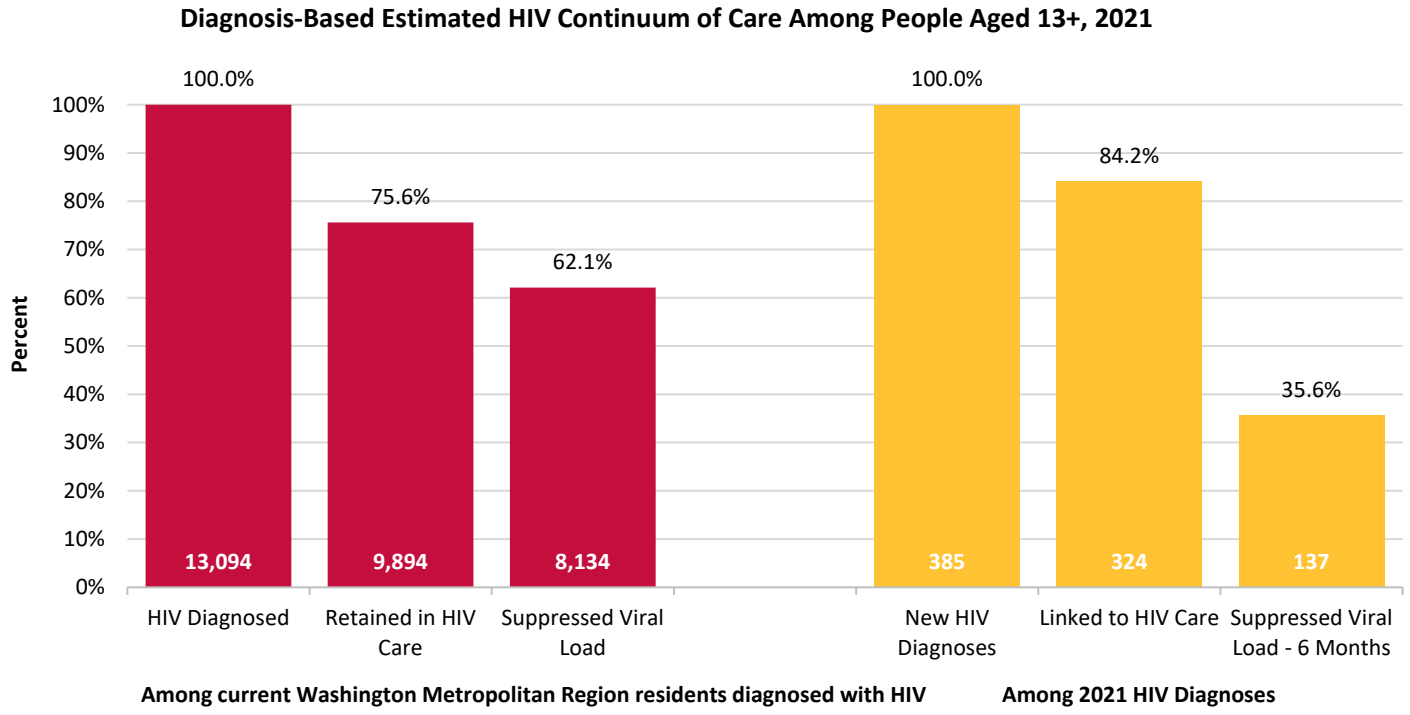
Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2021 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected	14,795	100.0%	New HIV Diagnoses	385	100.0%
HIV Diagnosed	13,094	88.5%	Linked to HIV Care	324	84.2%
Retained in HIV Care	9,894	66.9%	Suppressed Viral Load – 6 Months	137	35.6%
Suppressed Viral Load	8,134	55.0%			

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

[1] Gardner et al, "The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection." Clin Infect Dis. 2011; 52 (6): 793-800.

Figure 9 – Diagnosis-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Washington Metropolitan Region Residents Aged 13+, Reported through June 30, 2022

The diagnosis-based Washington Metropolitan Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Washington Metropolitan Region residents to describe the number and percentage of persons living with diagnosed HIV in the Washington Metropolitan Region on December 31, 2021 and the number and percentage of new HIV diagnoses in 2021 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2021 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Diagnosed	13,094	100.0%	New HIV Diagnoses	385	100.0%
Retained in HIV Care	9,894	75.6%	Linked to HIV Care	324	84.2%
Suppressed Viral Load	8,134	62.1%	Suppressed Viral Load – 6 Months	137	35.6%

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Section IV – By Jurisdiction

Table 1 – Reported HIV Diagnoses and Reported AIDS Diagnoses, among People Aged 13+ during 2021, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2022

Jurisdiction of Residence at Diagnosis	Population Aged 13+	Reported HIV Diagnoses among People Aged 13+			Reported AIDS Diagnoses among People Aged 13+		
		No.	% of Total	Rate	No.	% of Total	Rate
Calvert	78,973	4	1.0%	5.1	2	1.0%	2.5
Charles	140,617	25	6.5%	17.8	11	5.3%	7.8
Frederick	234,052	11	2.9%	4.7	10	4.9%	4.3
Montgomery	884,987	101	26.2%	11.4	49	23.8%	5.5
Prince George's	802,287	244	63.4%	30.4	134	65.0%	16.7
Total	2,140,916	385	100.0%	18.0	206	100.0%	9.6

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Table 2 – Reported HIV Diagnoses, among People Aged 13+ during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2022

Jurisdiction of Residence at HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+					
	No.	% Linked to Care	% Virally Suppressed - 6 months	% Late HIV Diagnoses	First CD4 Test Result	
					% with Test	Median Count
Calvert	4	***	***	***	***	***
Charles	25	80.0%	32.0%	20.0%	96.0%	364
Frederick	11	***	***	***	***	***
Montgomery	101	87.1%	41.6%	30.7%	93.1%	371
Prince George's	244	84.0%	34.8%	25.0%	91.0%	408
Total	385	84.2%	35.6%	26.0%	91.9%	387

*** Data withheld due to low population counts and/or small numbers.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2022

Jurisdiction of Residence	Population Aged 13+	Total People Aged 13+ Living with Diagnosed HIV								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Calvert	78,973	117	0.9%	148.2	675	136	1.0%	172.2	581	16.2%
Charles	140,617	530	4.0%	376.9	265	679	5.2%	482.9	207	28.1%
Frederick	234,052	390	2.9%	166.6	600	498	3.8%	212.8	470	27.7%
Montgomery	884,987	4,193	31.5%	473.8	211	3,674	28.1%	415.1	241	-12.4%
Prince George's	802,287	8,066	60.7%	1,005.4	99	8,107	61.9%	1,010.5	99	0.5%
Total	2,140,916	13,296	100.0%	621.0	161	13,094	100.0%	611.6	164	-1.5%

Table 4 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Calvert	136	111	81.6%	677	3.6%	16.2%	12.6%	67.6%
Charles	679	534	78.6%	678	9.0%	9.6%	14.8%	66.7%
Frederick	498	364	73.1%	619	8.2%	9.9%	14.3%	67.6%
Montgomery	3,674	2,534	69.0%	595	6.4%	12.5%	18.0%	63.2%
Prince George's	8,107	6,034	74.4%	636	6.6%	10.6%	15.9%	66.9%
Total	13,094	9,577	73.1%	627	6.7%	11.1%	16.3%	65.9%

Table 5 – Viral Load Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed Viral Load
Calvert	136	112	82.4%	97.3%	85,300
Charles	679	497	73.2%	88.5%	11,090
Frederick	498	370	74.3%	92.2%	1,110
Montgomery	3,674	2,358	64.2%	91.5%	9,235
Prince George's	8,107	5,644	69.6%	90.1%	9,335
Total	13,094	8,981	68.6%	90.6%	9,340

Section V – By Age

Table 6 – Reported HIV Diagnoses during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2022

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	% Linked to Care	% Virally Suppressed - 6 months	% Late HIV Diagnoses	First CD4 Test Result	
								% with Test	Median Count
<5 (Pediatric)	151,070	0	0.0%	0.0	--	--	--	--	--
5-12 (Pediatric)	260,608	1	0.3%	0.4	***	***	***	***	***
13-19	231,377	19	4.9%	8.2	***	***	***	***	***
20-29	307,253	102	26.4%	33.2	86.3%	37.3%	10.8%	93.1%	465
30-39	348,777	125	32.4%	35.8	85.6%	34.4%	32.0%	93.6%	320
40-49	337,726	66	17.1%	19.5	84.8%	40.9%	25.8%	87.9%	399
50-59	359,269	45	11.7%	12.5	80.0%	37.8%	40.0%	91.1%	336
60+	556,514	28	7.3%	5.0	78.6%	28.6%	42.9%	96.4%	228
Total	2,552,594	386	100.0%	15.1	84.2%	35.8%	25.9%	92.0%	389

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

*** Data withheld due to low population counts and/or small numbers.

Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022

Age on December 31, 2021	Population	Total People Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
<5 (Pediatric)	151,070	2	0.0%	1.3	75,535
5-12 (Pediatric)	260,608	10	0.1%	3.8	26,061
13-19	231,377	73	0.6%	31.6	3,170
20-29	307,253	1,000	7.6%	325.5	307
30-39	348,777	2,758	21.0%	790.8	126
40-49	337,726	2,996	22.9%	887.1	113
50-59	359,269	3,586	27.4%	998.1	100
60+	556,514	2,681	20.5%	481.7	208
Total	2,552,594	13,106	100.0%	513.4	195

Table 8 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022

Age on December 31, 2021	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	73	53	72.6%	620	9.4%	1.9%	17.0%	71.7%
20-29	1,000	750	75.0%	672	5.7%	8.4%	12.0%	73.9%
30-39	2,758	1,973	71.5%	644	6.8%	10.4%	15.3%	67.5%
40-49	2,996	2,141	71.5%	635	7.1%	10.3%	16.1%	66.6%
50-59	3,586	2,730	76.1%	620	6.4%	11.4%	16.9%	65.2%
60+	2,681	1,930	72.0%	586	6.8%	13.6%	18.2%	61.3%
Total	13,094	9,577	73.1%	627	6.7%	11.1%	16.3%	65.9%

Table 9 – Viral Load Test Results during 2021 for People Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022

Age on December 31, 2021	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed Viral Load
13-19	73	61	83.6%	78.7%	11,200
20-29	1,000	704	70.4%	81.7%	9,590
30-39	2,758	1,856	67.3%	86.3%	12,299
40-49	2,996	2,005	66.9%	91.7%	14,868
50-59	3,586	2,561	71.4%	92.4%	3,700
60+	2,681	1,794	66.9%	95.0%	6,500
Total	13,094	8,981	68.6%	90.6%	9,340

Section VI – By Demographics

Table 10 – Reported HIV Diagnoses, among People Aged 13+ during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022

Demographic Characteristics	Population Aged 13+	Reported HIV Diagnoses among People Aged 13+							
		No.	% of Total	Rate	% Linked to Care	% Virally Suppressed - 6 months	% Late HIV Diagnoses	First CD4 Test Result	
								% with Test	Median Count
Sex at Birth									
Female	1,109,818	103	26.8%	9.3	84.5%	40.8%	25.2%	92.2%	425
Male	1,031,098	282	73.2%	27.3	84.0%	33.7%	26.2%	91.8%	366
Gender									
Cisgender Man or Boy	1,031,098	272	70.6%	26.4	83.8%	33.8%	26.8%	91.5%	364
Cisgender Woman or Girl	1,109,818	102	26.5%	9.2	85.3%	41.2%	25.5%	92.2%	426
Transgender Woman or Girl	--	10	2.6%	0.0	***	***	***	***	***
Transgender Man or Boy	--	1	0.3%	0.0	***	***	***	***	***
Another Gender Identity	--	0	0.0%	0.0	--	--	--	--	--
Race/Ethnicity									
Hispanic	345,406	69	17.9%	20.0	89.9%	40.6%	34.8%	95.7%	344
Non-Hispanic	1,795,510	316	82.1%	17.6	82.9%	34.5%	24.1%	91.1%	404
American Indian/Alaska Native, only	5,171	0	0.0%	0.0	--	--	--	--	--
Asian, only	196,994	7	1.8%	3.6	***	***	***	***	***
Black, only	775,774	277	71.9%	35.7	82.3%	34.7%	23.8%	91.0%	411
Native Hawaiian/Other Pacific Islander, only	1,078	0	0.0%	0.0	--	--	--	--	--
White, only	770,767	28	7.3%	3.6	85.7%	28.6%	21.4%	92.9%	365
Multiracial/Other	45,727	4	1.0%	8.7	***	***	***	***	***
Total	2,140,916	385	100.0%	18.0	84.2%	35.6%	26.0%	91.9%	387
Country of Birth									
United States	1,497,157	313	81.3%	20.9	83.7%	33.5%	22.4%	91.4%	410
Foreign-Born	562,823	62	16.1%	11.0	87.1%	45.2%	38.7%	95.2%	291
Africa	--	34	8.8%	--	85.3%	41.2%	38.2%	94.1%	239
Asia	--	2	0.5%	--	***	***	***	***	***
Caribbean	--	5	1.3%	--	***	***	***	***	***
Central America	--	16	4.2%	--	93.8%	62.5%	43.8%	100.0%	328
Other	--	5	1.3%	--	100.0%	***	***	100.0%	322
Unknown	--	10	2.6%	--	80.0%	***	60.0%	90.0%	77
Total	2,059,979	385	100.0%	18.7	84.2%	35.6%	26.0%	91.9%	387

Note. Population data by sex at birth, age, and race/ethnicity are from the 2021 United States Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2020 American Community Survey.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

*** Data withheld due to low population counts and/or small numbers.

Table 11 – Reported HIV Diagnoses, among People Aged 13+ during 2021 by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022

Race/Ethnicity	Reported HIV Diagnoses among People Aged 13+							
	Sex at Birth							
	Female				Male			
	Population 13+	No.	% of Total	Rate	Population 13+	No.	% of Total	Rate
Hispanic	166,497	10	9.7%	6.0	178,909	59	20.9%	33.0
Non-Hispanic	943,321	93	90.3%	9.9	852,188	223	79.1%	26.2
American Indian/Alaska Native, only	2,727	0	0.0%	0.0	2,443	0	0.0%	0.0
Asian, only	105,084	1	1.0%	1.0	91,910	6	2.1%	6.5
Black, only	418,176	87	84.5%	20.8	357,597	190	67.4%	53.1
Native Hawaiian/Other Pacific Islander, only	593	0	0.0%	0.0	485	0	0.0%	0.0
White, only	392,346	4	3.9%	1.0	378,421	24	8.5%	6.3
Multiracial/Other	24,394	1	1.0%	4.1	21,333	3	1.1%	14.1
Total	1,109,818	103	100.0%	9.3	1,031,098	282	100.0%	27.3

Note. Population data by sex at birth, age, and race/ethnicity are from the 2021 United State Census population estimates.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Table 12 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022

Demographic Characteristics	Population Aged 13+	Total People Aged 13+ Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
Sex at Birth					
Female	1,109,818	4,461	34.1%	402.0	249
Male	1,031,098	8,633	65.9%	837.3	119
Gender					
Cisgender Man or Boy	1,031,098	8,527	65.1%	827.0	121
Cisgender Woman or Girl	1,109,818	4,456	34.0%	401.5	249
Transgender Woman or Girl	--	106	0.8%	--	--
Transgender Man or Boy	--	5	0.0%	--	--
Another Gender Identity	--	0	0.0%	--	--
Race/Ethnicity					
Hispanic	345,406	1,352	10.3%	391.4	255
Non-Hispanic	1,795,510	11,742	89.7%	654.0	153
American Indian/Alaska Native, only	5,171	11	0.1%	212.7	470
Asian, only	196,994	136	1.0%	69.0	1,448
Black, only	775,774	9,854	75.3%	1,270.2	79
Native Hawaiian/Other Pacific Islander, only	1,078	3	0.0%	278.3	359
White, only	770,767	1,136	8.7%	147.4	678
Multiracial/Other	45,727	602	4.6%	1,316.5	76
Total	2,140,916	13,094	100.0%	611.6	164
Country of Birth					
United States	1,497,157	9,747	74.4%	651.0	154
Foreign-Born	562,823	2,942	22.5%	522.7	191
Africa	--	1,952	14.9%	--	--
Asia	--	106	0.8%	--	--
Caribbean	--	180	1.4%	--	--
Central America	--	480	3.7%	--	--
Other	--	224	1.7%	--	--
Unknown	--	405	3.1%	--	--
Total	2,059,979	13,094	100.0%	635.6	157

Note. Population data by sex at birth, age, and race/ethnicity are from the 2021 United States Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2020 American Community Survey.

Table 13 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022

Race/Ethnicity	Total People Aged 13+ Living with Diagnosed HIV							
	Sex at Birth							
	Female				Male			
	Population 13+	No.	% of Total	Rate	Population 13+	No.	% of Total	Rate
Hispanic	166,497	287	6.4%	172.4	178,909	1,065	12.3%	595.3
Non-Hispanic	943,321	4,174	93.6%	442.5	852,188	7,568	87.7%	888.1
American Indian/Alaska Native, only	2,727	***	***	***	2,443	***	***	***
Asian, only	105,084	23	0.5%	21.9	91,910	113	1.3%	122.9
Black, only	418,176	3,790	85.0%	906.3	357,597	6,064	70.2%	1,695.8
Native Hawaiian/Other Pacific Islander, only	593	***	***	***	485	***	***	***
White, only	392,346	183	4.1%	46.6	378,421	953	11.0%	251.8
Multiracial/Other	24,394	175	3.9%	717.4	21,333	427	4.9%	2,001.6
Total	1,109,818	4,461	100.0%	402.0	1,031,098	8,633	100.0%	837.3

Note. Population data by sex at birth, age, and race/ethnicity are from the 2021 United States Census population estimates.

*** Data withheld due to low population counts and/or small numbers.

Table 14 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Female	4,461	3,255	73.0%	665	6.3%	10.2%	14.2%	69.3%
Male	8,633	6,322	73.2%	610	6.9%	11.6%	17.4%	64.2%
Gender								
Cisgender Man or Boy	8,527	6,244	73.2%	609	6.9%	11.6%	17.4%	64.1%
Cisgender Woman or Girl	4,456	3,251	73.0%	665	6.3%	10.2%	14.1%	69.3%
Transgender Woman or Girl	106	***	***	***	***	***	***	***
Transgender Man or Boy	5	***	***	***	***	***	***	***
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	1,352	1,001	74.0%	610	6.6%	11.1%	17.7%	64.6%
Non-Hispanic	11,742	8,576	73.0%	629	6.7%	11.1%	16.1%	66.1%
American Indian/Alaska Native, only	11	***	***	***	***	***	***	***
Asian, only	136	91	66.9%	592	4.4%	11.0%	17.6%	67.0%
Black, only	9,854	7,176	72.8%	629	6.9%	11.2%	16.1%	65.7%
Native Hawaiian/Other Pacific Islander, only	3	***	***	***	***	***	***	***
White, only	1,136	813	71.6%	658	4.9%	9.3%	14.5%	71.2%
Multiracial/Other	602	486	80.7%	592	7.0%	12.3%	18.7%	61.9%
Country of Birth								
United States	9,747	7,244	74.3%	637	6.8%	10.8%	15.4%	67.1%
Foreign-Born	2,942	2,074	70.5%	592	6.6%	12.3%	19.1%	62.0%
Africa	1,952	1,351	69.2%	581	7.0%	12.2%	19.6%	61.1%
Asia	106	83	78.3%	578	2.4%	14.5%	19.3%	63.9%
Caribbean	180	131	72.8%	702	8.4%	11.5%	11.5%	68.7%
Central America	480	367	76.5%	598	6.0%	13.4%	19.3%	61.3%
Other	224	142	63.4%	620	4.9%	9.9%	20.4%	64.8%
Unknown	405	259	64.0%	632	5.8%	10.0%	18.5%	65.6%
Total	13,094	9,577	73.1%	627	6.7%	11.1%	16.3%	65.9%

*** Data withheld due to low population counts and/or small numbers.

Table 15 – Viral Load Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2022

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed Viral Load
Sex at Birth					
Female	4,461	3,053	68.4%	91.5%	6,120
Male	8,633	5,928	68.7%	90.1%	10,790
Gender					
Cisgender Man or Boy	8,527	5,852	68.6%	90.2%	11,050
Cisgender Woman or Girl	4,456	3,049	68.4%	91.5%	5,944
Transgender Woman or Girl	106	***	***	***	***
Transgender Man or Boy	5	***	***	***	***
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	1,352	956	70.7%	90.6%	10,850
Non-Hispanic	11,742	8,025	68.3%	90.6%	9,300
American Indian/Alaska Native, only	11	***	***	***	***
Asian, only	136	90	66.2%	94.4%	33,100
Black, only	9,854	6,669	67.7%	89.8%	9,355
Native Hawaiian/Other Pacific Islander, only	3	***	***	***	***
White, only	1,136	801	70.5%	95.4%	15,853
Multiracial/Other	602	455	75.6%	92.5%	1,661
Country of Birth					
United States	9,747	6,809	69.9%	90.0%	9,335
Foreign-Born	2,942	1,933	65.7%	92.7%	11,000
Africa	1,952	1,250	64.0%	92.3%	8,880
Asia	106	74	69.8%	97.3%	209,050
Caribbean	180	122	67.8%	92.6%	34,184
Central America	480	353	73.5%	92.4%	10,100
Other	224	134	59.8%	94.0%	23,972
Unknown	405	239	59.0%	90.4%	2,620
Total	13,094	8,981	68.6%	90.6%	9,340

*** Data withheld due to low population counts and/or small numbers.

Table 16 – Females Living with Diagnosed HIV by Age on December 31, 2021 and Race/Ethnicity, Alive on December 31, 2021, and Reported through June 30, 2022

Total Females Living with Diagnosed HIV						
Age on December 31, 2021		Race/Ethnicity				Total Females by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	52,859	67,643	54,440	26,203	201,145
	Number	0	6	1	0	7
	Rate	0.0	8.9	1.8	0.0	3.5
	Ratio (1 in X)	--	11,274	54,440	--	28,735
13-19	Population	25,700	38,867	33,969	14,648	113,184
	Number	3	23	2	1	29
	Rate	11.7	59.2	5.9	6.8	25.6
	Ratio (1 in X)	8,567	1,690	16,985	14,648	3,903
20-29	Population	29,730	60,795	45,375	18,375	154,275
	Number	15	181	5	4	205
	Rate	50.5	297.7	11.0	21.8	132.9
	Ratio (1 in X)	1,982	336	9,075	4,594	753
30-39	Population	31,828	66,742	55,183	22,414	176,167
	Number	51	507	33	35	626
	Rate	160.2	759.6	59.8	156.2	355.3
	Ratio (1 in X)	624	132	1,672	640	281
40-49	Population	31,924	65,010	52,153	23,200	172,287
	Number	87	1,064	39	60	1,250
	Rate	272.5	1,636.7	74.8	258.6	725.5
	Ratio (1 in X)	367	61	1,337	387	138
50-59	Population	23,387	75,670	66,145	21,328	186,530
	Number	80	1,167	49	57	1,353
	Rate	342.1	1,542.2	74.1	267.3	725.4
	Ratio (1 in X)	292	65	1,350	374	138
60+	Population	23,928	111,092	139,521	32,834	307,375
	Number	51	848	55	44	998
	Rate	213.1	763.3	39.4	134.0	324.7
	Ratio (1 in X)	469	131	2,537	746	308
Total Females by Race/Ethnicity	Population	219,356	485,819	446,786	159,002	1,310,963
	Number	287	3,796	184	201	4,468
	Rate	130.8	781.4	41.2	126.4	340.8
	Ratio (1 in X)	764	128	2,428	791	293

Table 17 – Males Living with Diagnosed HIV by Age on December 31, 2021 and Race/Ethnicity, Alive on December 31, 2021, and Reported through June 30, 2022

Total Males Living with Diagnosed HIV						
Age on December 31, 2021		Race/Ethnicity				Total Males by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	55,758	69,489	57,420	27,866	210,533
	Number	0	4	1	0	5
	Rate	0.0	5.8	1.7	0.0	2.4
	Ratio (1 in X)	--	17,372	57,420	--	42,107
13-19	Population	27,129	39,462	36,217	15,385	118,193
	Number	5	36	2	1	44
	Rate	18.4	91.2	5.5	6.5	37.2
	Ratio (1 in X)	5,426	1,096	18,108	15,385	2,686
20-29	Population	31,076	56,617	47,337	17,948	152,978
	Number	125	590	42	38	795
	Rate	402.2	1,042.1	88.7	211.7	519.7
	Ratio (1 in X)	249	96	1,127	472	192
30-39	Population	35,660	61,362	55,839	19,749	172,610
	Number	284	1,577	137	134	2,132
	Rate	796.4	2,570.0	245.3	678.5	1,235.2
	Ratio (1 in X)	126	39	408	147	81
40-49	Population	38,705	55,908	51,536	19,290	165,439
	Number	314	1,142	175	115	1,746
	Rate	811.3	2,042.6	339.6	596.2	1,055.4
	Ratio (1 in X)	123	49	294	168	95
50-59	Population	25,967	63,782	65,352	17,638	172,739
	Number	221	1,564	302	146	2,233
	Rate	851.1	2,452.1	462.1	827.8	1,292.7
	Ratio (1 in X)	117	41	216	121	77
60+	Population	20,372	80,466	122,140	26,161	249,139
	Number	116	1,155	295	117	1,683
	Rate	569.4	1,435.4	241.5	447.2	675.5
	Ratio (1 in X)	176	70	414	224	148
Total Males by Race/Ethnicity	Population	234,667	427,086	435,841	144,037	1,241,631
	Number	1,065	6,068	954	551	8,638
	Rate	453.8	1,420.8	218.9	382.5	695.7
	Ratio (1 in X)	220	70	457	261	144

Section VII – By HIV Exposure Category

Table 18 – Reported HIV Diagnoses, among People Aged 13+ during 2021, Linked to Care, Viral Suppression, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2022

Estimated or Reported Exposure Category	Reported HIV Diagnoses among People Aged 13+						
	No.	% of Total	% Linked to Care	% Virally Suppressed - 6 months	% Late HIV Diagnoses	First CD4 Test Result	
						% with Test	Median Count
Male-to-male Sexual Contact (MMSC)	204	53.0%	84.5%	35.4%	20.9%	90.5%	405
Injection Drug Use (IDU)	30	7.7%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	4	1.1%	***	***	***	***	***
Heterosexual Contact (HET)	147	38.3%	84.3%	38.2%	31.8%	94.4%	362
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	385	100.0%	84.2%	35.6%	26.0%	91.9%	387
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	10	9.5%	85.7%	***	***	93.9%	502
Heterosexual Contact (HET)	93	90.5%	84.3%	***	***	92.1%	422
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	103	100.0%	84.5%	40.8%	25.2%	92.2%	425
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MMSC)	204	72.3%	84.5%	35.4%	20.9%	90.5%	405
Injection Drug Use (IDU)	20	7.0%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	4	1.5%	***	***	***	***	***
Heterosexual Contact (HET)	54	19.2%	84.1%	33.0%	42.1%	98.5%	242
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	282	100.0%	84.0%	33.7%	26.2%	91.8%	366

Note. Data for 2021 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Exposure category estimates are rounded to whole numbers after percentages are calculated. This may be more noticeable in the precision of estimates calculated for small numbers of people. Median count is weighted based on statistical adjustment. Exposure category is based on sex at birth. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Diverse People Supplement.

*** Data withheld due to low population counts and/or small numbers.

Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

Table 19 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2022

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV	
	No.	% of Total
Male-to-male Sexual Contact (MMSC)	5,921	45.2%
Injection Drug Use (IDU)	848	6.5%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	293	2.2%
Heterosexual Contact (HET)	5,823	44.5%
Perinatal Transmission	152	1.2%
Other Exposure	15	0.1%
No Estimated or Reported Exposure	43	0.3%
Total	13,094	100.0%
Female Estimated or Reported Exposure Category		
Injection Drug Use (IDU)	395	8.9%
Heterosexual Contact (HET)	3,955	88.7%
Perinatal Transmission	87	2.0%
Other Exposure	8	0.2%
No Estimated or Reported Exposure	16	0.4%
Total	4,461	100.0%
Male Estimated or Reported Exposure Category		
Male-to-male Sexual Contact (MMSC)	5,921	68.6%
Injection Drug Use (IDU)	452	5.2%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	293	3.4%
Heterosexual Contact (HET)	1,868	21.6%
Perinatal Transmission	65	0.8%
Other Exposure	7	0.1%
No Estimated or Reported Exposure	27	0.3%
Total	8,633	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Exposure category is based on sex at birth. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Diverse People Supplement.

Table 20 – People Aged 13+ Living with Diagnosed HIV by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2021, and Reported through June 30, 2022

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
Male-to-male Sexual Contact (MMSC)	735	54.4%	3,967	40.3%	798	70.3%
Injection Drug Use (IDU)	47	3.5%	683	6.9%	74	6.5%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	27	2.0%	201	2.0%	42	3.7%
Heterosexual Contact (HET)	529	39.1%	4,830	49.0%	208	18.3%
Perinatal Transmission	10	0.7%	132	1.3%	5	0.4%
Other Exposure	1	0.1%	7	0.1%	5	0.4%
No Estimated or Reported Exposure	3	0.2%	34	0.3%	5	0.4%
Total	1,352	100.0%	9,854	100.0%	1,137	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	17	6.0%	319	8.4%	35	19.1%
Heterosexual Contact (HET)	265	92.3%	3,377	89.1%	140	76.6%
Perinatal Transmission	4	1.4%	77	2.0%	3	1.6%
Other Exposure	0	0.0%	6	0.2%	1	0.5%
No Estimated or Reported Exposure	1	0.3%	11	0.3%	4	2.2%
Total	287	100.0%	3,790	100.0%	183	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MMSC)	735	69.0%	3,967	65.4%	798	83.7%
Injection Drug Use (IDU)	30	2.8%	364	6.0%	39	4.1%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	27	2.5%	201	3.3%	42	4.4%
Heterosexual Contact (HET)	264	24.8%	1,453	24.0%	68	7.1%
Perinatal Transmission	6	0.6%	55	0.9%	2	0.2%
Other Exposure	1	0.1%	1	0.0%	4	0.4%
No Estimated or Reported Exposure	2	0.2%	23	0.4%	1	0.1%
Total	1,065	100.0%	6,064	100.0%	954	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Exposure category is based on sex at birth. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Diverse People Supplement.

Table 21 – CD4 Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Estimated or Reported Exposure Category, Reported through June 30, 2022

Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male-to-male Sexual Contact (MMSC)	5,921	4,409	74.5%	640	5.6%	10.1%	16.3%	68.0%
Injection Drug Use (IDU)	848	592	69.8%	611	8.2%	15.4%	13.1%	63.3%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	293	218	74.3%	551	7.6%	12.7%	21.4%	58.3%
Heterosexual Contact (HET)	5,823	4,207	72.2%	618	7.4%	11.6%	16.6%	64.5%
Perinatal Transmission	152	111	73.0%	626	11.7%	9.9%	11.7%	66.7%
Other Exposure	15	13	86.7%	517	7.7%	15.4%	23.1%	53.8%
No Estimated or Reported Exposure	43	28	65.1%	613	21.4%	0.0%	10.7%	67.9%
Total	13,094	9,577	73.1%	627	6.7%	11.1%	16.3%	65.9%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

Table 22 – Viral Load Test Results during 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2021, by Estimated or Reported Exposure Category, Reported through June 30, 2022

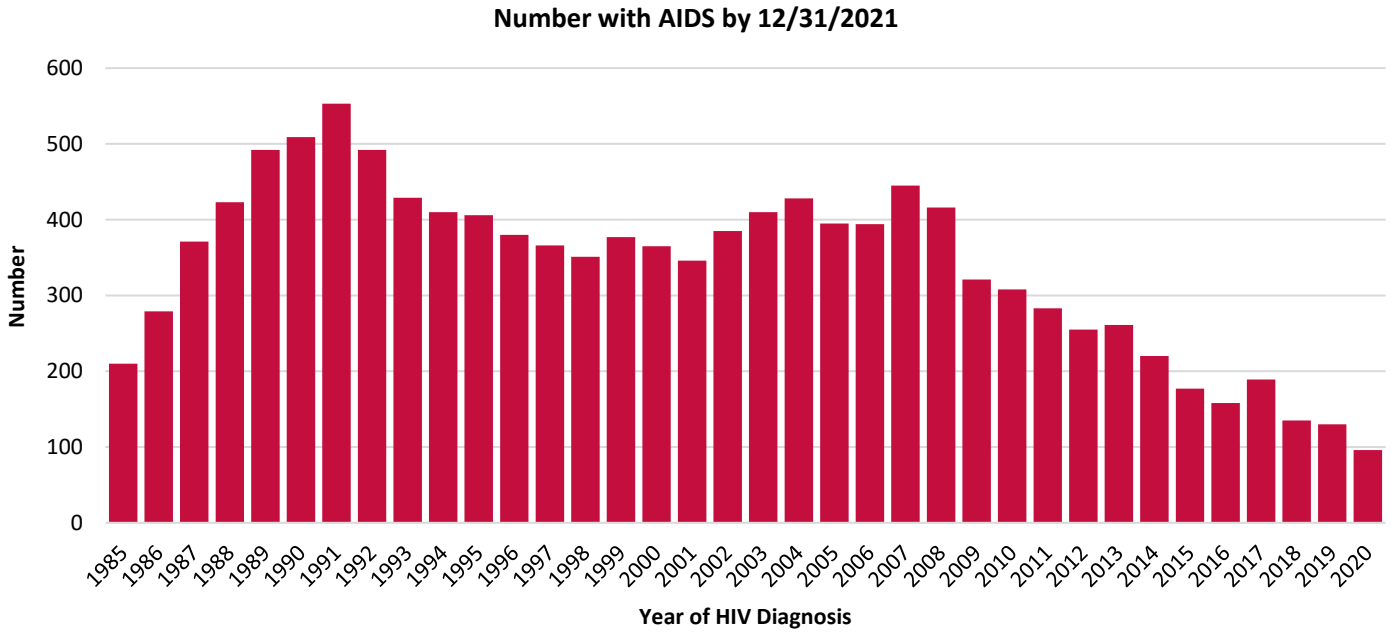
Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed Viral Load
Male-to-male Sexual Contact (MMSC)	5,921	4,161	70.3%	90.3%	9,340
Injection Drug Use (IDU)	848	549	64.7%	89.4%	9,085
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	293	199	68.1%	91.8%	18,318
Heterosexual Contact (HET)	5,823	3,915	67.2%	91.4%	7,860
Perinatal Transmission	152	117	77.0%	76.1%	14,500
Other Exposure	15	13	86.7%	100.0%	--
No Estimated or Reported Exposure	43	27	62.8%	92.6%	77,750
Total	13,094	8,981	68.6%	90.6%	9,340

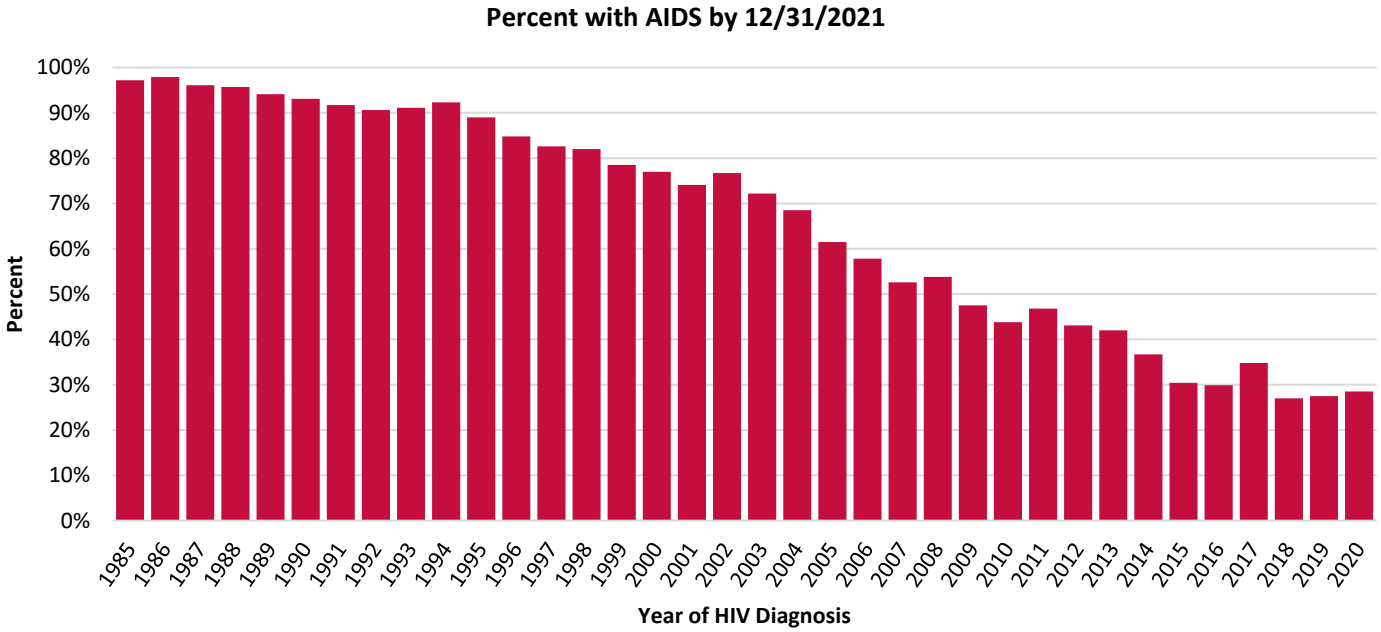
Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

Section VIII – Disease Progression and Mortality

Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2020, Reported through June 30, 2022

Number of People Aged 13+ with Diagnosed HIV, Aged 13+ at HIV Diagnosis, (Reported HIV Diagnoses among People Aged 13+), Number of People Aged 13+ with Diagnosed HIV with an AIDS Diagnosis by December 31, 2021 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis among People Aged 13+ by December 31, 2021, the Average Years from HIV Diagnosis to AIDS Diagnosis for People with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis among People Aged 13+ at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2020, Reported through June 30, 2022

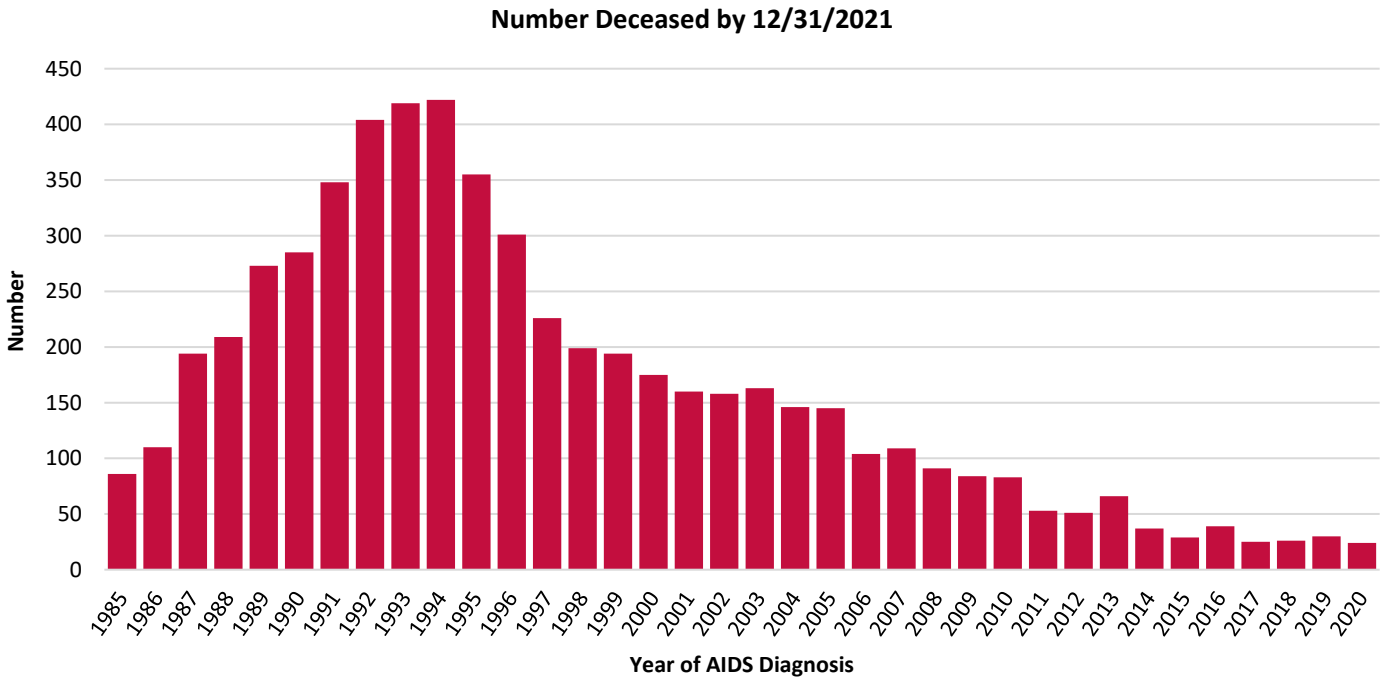


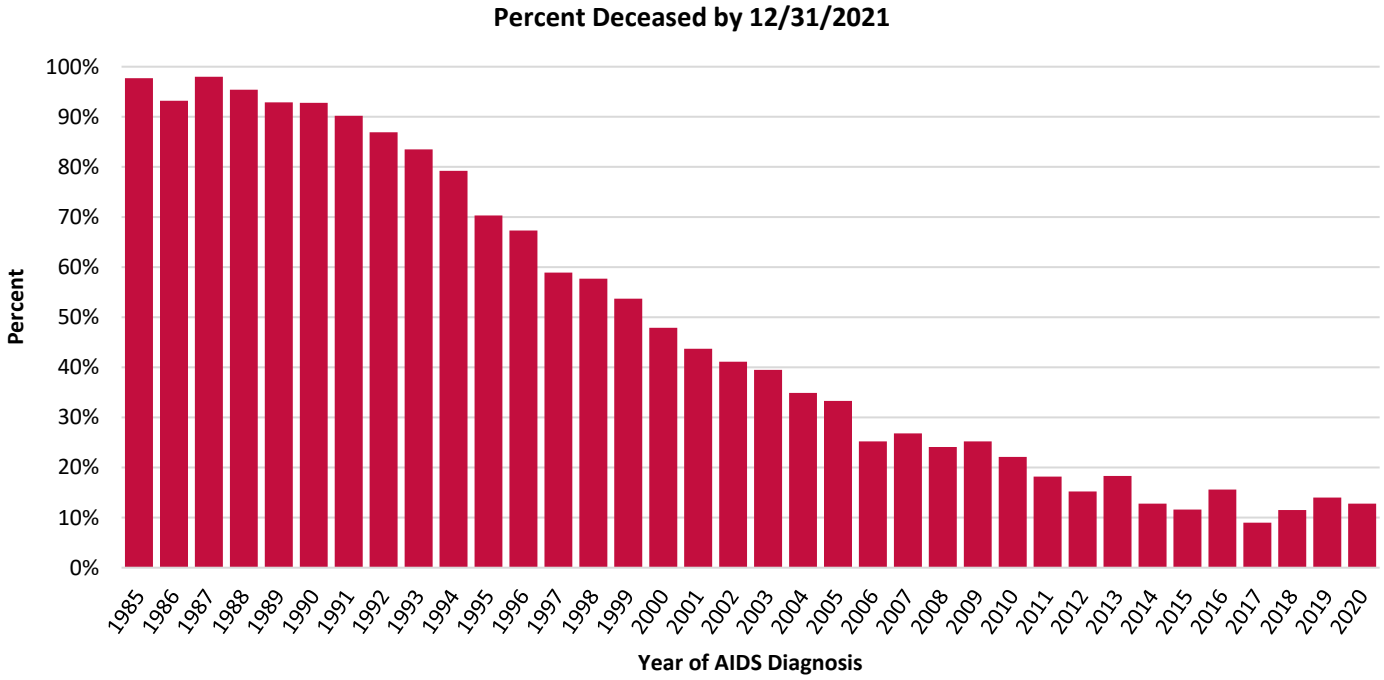


Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	125	118	94.4%	7.7	42.4%	42.4%	45.6%	58.4%
1985	216	210	97.2%	5.9	40.7%	42.1%	49.1%	76.4%
1986	285	279	97.9%	4.9	42.1%	42.8%	53.3%	85.6%
1987	386	371	96.1%	3.9	47.4%	48.2%	64.2%	86.8%
1988	442	423	95.7%	3.3	48.4%	53.2%	72.6%	88.7%
1989	523	492	94.1%	3.0	49.3%	52.2%	73.6%	88.7%
1990	547	509	93.1%	3.1	47.7%	55.0%	73.5%	87.4%
1991	603	553	91.7%	2.6	51.7%	60.4%	78.3%	85.9%
1992	543	492	90.6%	3.0	49.2%	57.3%	73.8%	82.9%
1993	471	429	91.1%	2.2	60.7%	66.7%	77.9%	85.8%
1994	444	410	92.3%	2.1	66.0%	71.4%	77.7%	86.7%
1995	456	406	89.0%	2.1	63.4%	68.4%	73.9%	84.2%
1996	448	380	84.8%	2.1	61.2%	63.2%	71.7%	79.9%
1997	443	366	82.6%	2.1	60.3%	63.9%	70.0%	77.9%
1998	428	351	82.0%	2.3	57.9%	62.1%	68.7%	75.9%
1999	480	377	78.5%	1.8	59.4%	63.1%	68.1%	73.5%
2000	474	365	77.0%	2.3	54.4%	57.8%	64.3%	71.7%
2001	467	346	74.1%	2.2	52.9%	55.2%	62.7%	68.7%
2002	502	385	76.7%	1.6	60.4%	63.9%	68.7%	72.9%
2003	568	410	72.2%	1.8	54.6%	56.9%	62.0%	68.1%
2004	625	428	68.5%	1.8	51.4%	53.9%	58.1%	65.6%
2005	642	395	61.5%	1.6	47.0%	49.7%	54.0%	58.9%
2006	682	394	57.8%	1.9	40.8%	43.5%	49.4%	54.4%
2007	846	445	52.6%	1.9	36.4%	38.7%	44.1%	49.9%
2008	773	416	53.8%	1.8	37.4%	40.4%	47.2%	51.6%
2009	676	321	47.5%	2.0	31.8%	34.0%	39.2%	46.2%
2010	703	308	43.8%	1.7	30.3%	33.0%	37.6%	42.1%
2011	605	283	46.8%	1.7	33.1%	36.0%	39.5%	45.8%
2012	591	255	43.1%	1.3	32.1%	35.0%	38.9%	--
2013	621	261	42.0%	1.2	32.7%	34.5%	38.2%	--
2014	600	220	36.7%	1.2	26.2%	28.2%	33.5%	--
2015	583	177	30.4%	0.9	24.2%	25.7%	28.6%	--
2016	528	158	29.9%	0.7	24.4%	26.3%	29.4%	--
2017	543	189	34.8%	0.5	30.9%	32.2%	--	--
2018	500	135	27.0%	0.3	24.8%	26.4%	--	--
2019	472	130	27.5%	0.2	26.1%	27.3%	--	--
2020	337	96	28.5%	0.1	28.5%	--	--	--
Total	19,178	12,283	64.0%	2.3	43.1%	46.3%	53.4%	60.3%

Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2020, Reported through June 30, 2022

Number of People Aged 13+ with Diagnosed HIV, Aged 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2020 (Reported AIDS Diagnoses), Number of Reported AIDS Diagnosis among People Aged 13+ Reported to Have Died of Any Cause by December 31, 2021 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) among People Aged 13+ by December 31, 2021, the Average Years from AIDS Diagnosis to Death for People that have Died, and the Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses among People Aged 13+ Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2020, Reported through June 30, 2022





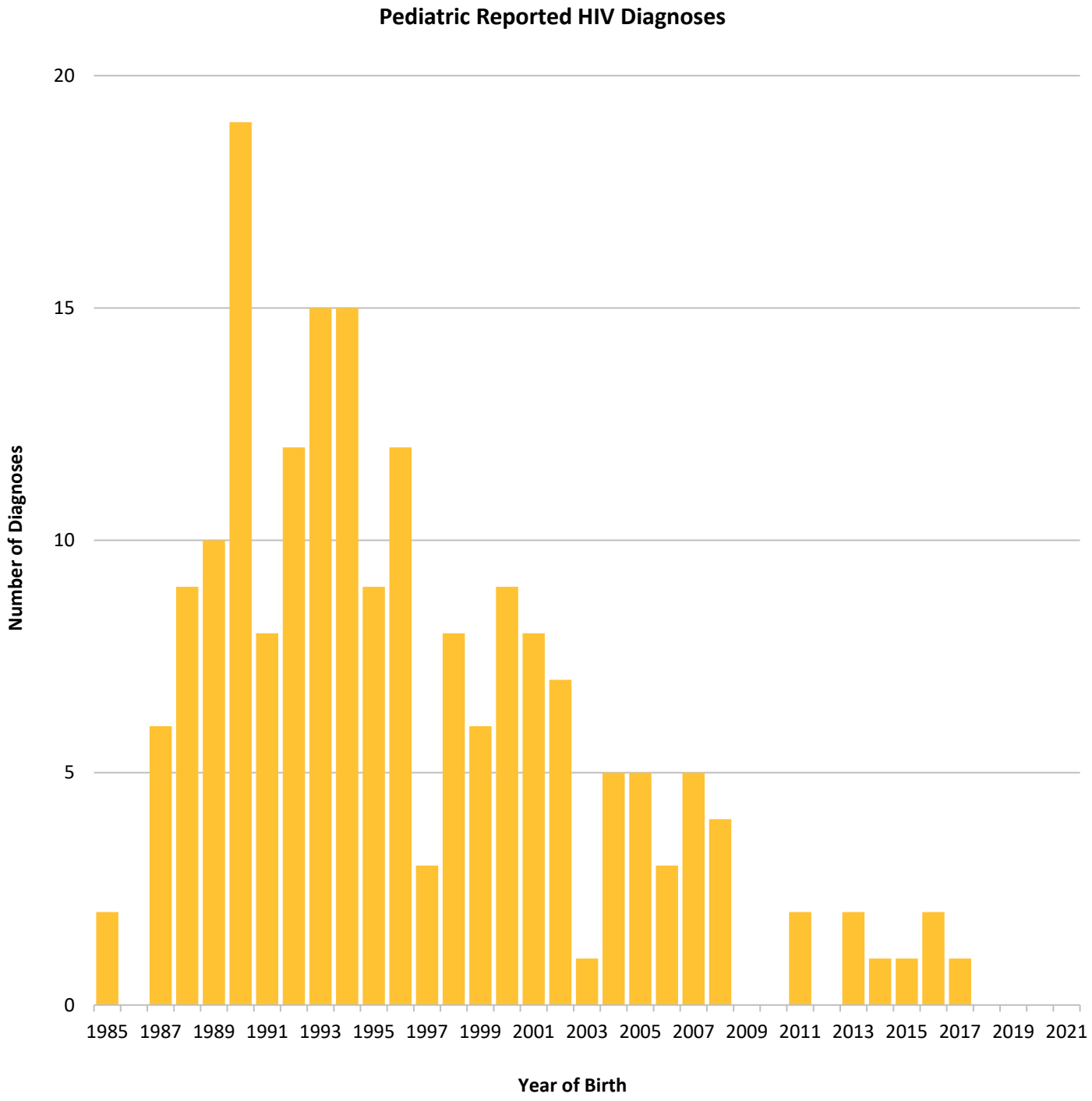
Year of AIDS Diagnosis	Reported AIDS Diagnoses among People Aged 13+							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Deceased	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	59	59	100.0%	0.9	33.9%	6.8%	3.4%	0.0%
1985	88	86	97.7%	1.4	40.9%	15.9%	11.4%	3.4%
1986	118	110	93.2%	1.9	51.7%	32.2%	12.7%	9.3%
1987	198	194	98.0%	2.1	52.0%	29.3%	10.6%	6.6%
1988	219	209	95.4%	2.0	61.6%	36.1%	13.2%	6.8%
1989	294	273	92.9%	3.3	68.7%	50.7%	21.8%	13.6%
1990	307	285	92.8%	3.1	65.5%	49.2%	22.5%	14.3%
1991	386	348	90.2%	2.9	68.4%	52.1%	19.7%	15.0%
1992	465	404	86.9%	3.4	74.4%	53.8%	26.0%	20.9%
1993	502	419	83.5%	3.7	73.1%	57.8%	33.5%	25.9%
1994	533	422	79.2%	4.1	76.4%	55.5%	40.9%	30.6%
1995	505	355	70.3%	5.3	75.6%	65.7%	55.2%	43.6%
1996	447	301	67.3%	5.9	81.0%	75.2%	64.2%	47.9%
1997	384	226	58.9%	6.0	82.0%	76.8%	65.9%	55.2%
1998	345	199	57.7%	6.4	85.8%	82.0%	71.6%	55.9%
1999	361	194	53.7%	6.0	85.0%	79.2%	70.4%	57.9%
2000	365	175	47.9%	7.2	92.1%	89.9%	79.2%	65.8%
2001	366	160	43.7%	6.1	87.7%	84.2%	76.2%	67.5%
2002	384	158	41.1%	5.3	88.8%	85.7%	75.3%	67.7%
2003	413	163	39.5%	5.5	88.9%	84.0%	77.2%	70.5%
2004	418	146	34.9%	5.8	90.4%	87.1%	81.3%	74.4%
2005	436	145	33.3%	5.4	90.4%	88.3%	81.2%	74.1%
2006	412	104	25.2%	4.8	93.0%	90.8%	85.4%	78.2%
2007	406	109	26.8%	4.7	91.4%	88.7%	84.7%	77.3%
2008	378	91	24.1%	3.6	90.5%	87.8%	83.6%	78.8%
2009	333	84	25.2%	4.2	90.7%	89.2%	84.4%	78.7%
2010	375	83	22.1%	3.7	92.8%	90.1%	85.3%	79.5%
2011	292	53	18.2%	2.9	94.2%	91.1%	85.3%	81.8%
2012	336	51	15.2%	3.2	93.5%	92.0%	89.9%	--
2013	361	66	18.3%	2.6	92.5%	89.8%	86.4%	--
2014	288	37	12.8%	2.7	95.8%	93.8%	89.9%	--
2015	250	29	11.6%	1.5	93.2%	92.0%	89.6%	--
2016	250	39	15.6%	1.0	90.0%	87.2%	84.8%	--
2017	278	25	9.0%	1.2	94.6%	92.8%	--	--
2018	226	26	11.5%	1.2	93.4%	92.0%	--	--
2019	215	30	14.0%	0.6	88.8%	87.0%	--	--
2020*	188	24	12.8%	0.2	87.8%	--	--	--
Total	12,181	5,882	48.3%	4.1	83.5%	76.0%	65.3%	58.2%

*2020 AIDS deaths are preliminary.

Section IX – Pediatrics

Figure 12 – Trends in Reported HIV Diagnoses among People Aged <13, 1985-2021, Reported through June 30, 2022

Number of Pediatric HIV Diagnoses, Age <13 at HIV Diagnosis, (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Children with Diagnosed HIV, Age <13 at HIV Diagnosis, and Not Reported to have Died as of December 31st of Each Year (Total Living Pediatric Diagnoses) from 1985 through 2021, as Reported by Name through June 30, 2022



Year	Number of Pediatric Reported HIV Diagnoses				Total Pediatric Diagnoses Alive on December 31st of Each Year
	By Birth Year	By HIV Diagnosis Year	By AIDS Diagnosis Year	By Death Year	
<1985	23	3	2	0	--
1985	2	5	2	1	7
1986	0	6	0	0	13
1987	6	6	4	0	19
1988	9	2	3	2	20
1989	10	8	5	2	26
1990	19	13	5	4	35
1991	8	13	8	3	45
1992	12	10	8	2	51
1993	15	8	9	4	53
1994	15	9	6	3	60
1995	9	9	8	6	63
1996	12	14	12	2	72
1997	3	7	6	1	78
1998	8	5	2	3	80
1999	6	10	6	0	89
2000	9	7	3	1	95
2001	8	5	2	2	99
2002	7	10	2	0	109
2003	1	4	1	4	109
2004	5	5	2	2	112
2005	5	7	3	1	118
2006	3	10	3	1	127
2007	5	11	3	1	138
2008	4	6	1	0	146
2009	0	3	3	0	149
2010	0	1	1	2	149
2011	2	2	2	0	152
2012	0	1	0	0	155
2013	2	2	1	1	157
2014	1	3	1	0	160
2015	1	0	6	0	160
2016	2	3	2	1	164
2017	1	2	1	0	168
2018	0	2	4	1	169
2019	0	0	2	1	171
2020	0	0	2	1	169
2021	0	1	0	0	171
Total	213	213	131	52	--

Table 23 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022

Jurisdiction of Current Residence	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Calvert	0	0.0%
Charles	4	33.3%
Frederick	0	0.0%
Montgomery	3	25.0%
Prince George's	5	41.7%
Total	12	100.0%

Table 24 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2021, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022

Demographic Characteristic	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Sex at Birth		
Female	7	58.3%
Male	5	41.7%
Race/Ethnicity		
Hispanic	0	0.0%
Non-Hispanic	12	100.0%
American Indian/Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	10	83.3%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	2	16.7%
Multiracial/Other	0	0.0%
Total	12	100.0%

Glossary of Terms

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis**.**

Age on [date]: Age group of people living with diagnosed HIV on the specified date.

Another Gender Identity: All other gender identities or gender expressions.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of people living with diagnosed HIV with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

Cisgender Man or Boy: A person whose sex assigned at birth is male and who identify as a man or boy.

Cisgender Woman or Girl: A person whose sex assigned at birth is female and who identify as a woman or girl.

Corrections: Residence in a state or federal prison in Maryland. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Female: A person whose sex assigned at birth is female.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent with Test: Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Gender Expression: People's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

Gender Identity: Refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

HIV Diagnosed: Number of people who have received an HIV diagnosis in a given time period, regardless of when they were first infected.

HIV Infected/Prevalence: Estimated number of people with HIV alive at a given time, regardless of when they were infected or whether they have received a diagnosis.

Heterosexual Contact (HET): Individuals who report a history of sexual contact with a person of the opposite sex who is known to be HIV positive or at increased risk for HIV transmission. Risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue, and artificial insemination.

Injection Drug Use (IDU): Individuals who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Male: A person whose sex assigned at birth is male.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for people living with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Male-to-male Sexual Contact (MMSC): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Male-to-male Sexual Contact/Injection Drug Use (MMSC/IDU): Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Other Exposure: Includes people who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year and not reported to have died as of December 31st of the specified year.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Perinatal Transmission: When HIV is passed from a person with childbearing potential living with HIV to the baby during pregnancy, childbirth (also called labor and delivery), or breastfeeding (through breast milk).

Population: Population estimate for July 1, 2021.

Population Aged 13+: Population age 13 years or older, estimate for July 1, 2021.

Rate: Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 person living with diagnosed HIV in the population, or 1 person living with diagnosed HIV in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported AIDS Diagnoses among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported HIV Diagnoses among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

Suppressed Viral Load: HIV diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Suppressed Viral Load – 6 Months: HIV diagnosed with a viral load of less than 200 copies per milliliter measured in the first six months after HIV diagnosis.

Total People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year not reported to have died as of December 31st of the specified year.

Total People Aged <13 Living with Diagnosed HIV: Reported HIV diagnosis, age less than 13 years at HIV diagnosis and not reported to have died as of December 31st of the specified year.

Total People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

Transgender Man or Boy: A person whose sex assigned at birth is female but who identify as a man or boy.

Transgender Woman or Girl: A person whose sex assigned at birth is male but who identify as a woman or girl.

Viral Load With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.