2021

SOUTHERN 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 36 reported HIV diagnoses in the Southern Region. The Southern Region includes Calvert County, Charles County, and Saint Mary's County. Data presented below describe HIV diagnoses in the Southern Region, among people ages 13 years and older, during 2021.

- Geographic distribution: Charles County accounted for the highest number (25, 69.4%) and the highest rate (17.8) of HIV diagnoses.
- Age: Persons aged 30-39 years accounted for the highest number (15, 41.7%) of HIV diagnoses and the highest rate (29.4).
- Sex at Birth: Males accounted for the highest number (31, 86.1%) of HIV diagnoses. The rate among males was 20.1 and 3.1 among females.
- Race/Ethnicity: Non-Hispanic Black people accounted for the highest number (28, 77.8%) and the highest rate (29.2).
- Exposure Category: Male-to-male sexual contact accounted for the highest number (23, 62.5%) of diagnoses.

People Living with Diagnosed HIV

At the end of 2021, there were 984 people living with diagnosed HIV in the Southern Region. Data presented below describe people living with diagnosed HIV, aged 13 years and older, in the Southern Region.

- Geographic distribution: Charles County accounted for the highest number (679, 69.0%) of people living with diagnosed HIV and the highest rate (482.9).
- Age: Persons aged 50-59 years accounted for the highest number (280, 28.5%) of people living with diagnosed HIV and the highest rate (495.1).
- Sex at Birth: Males accounted for the highest number (676, 68.7%) of people living with diagnosed HIV. The rate among males was 438.9 and 191.6 among females.
- Race/Ethnicity: Non-Hispanic Black people accounted for the highest number (723, 73.5%) of the people living with diagnosed HIV and the highest rate (754.9).
- Exposure Category: Male-to-male sexual contact accounted for the highest number (474, 48.2%) of the total people living with diagnosed HIV.

Engagement in HIV Care

- HIV diagnosed: Among people living with HIV in the Southern Region, it is estimated that 93.5 percent have been diagnosed and an estimated 68 people with HIV remain undiagnosed.
- Linked to care: During 2021, 83.3 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, 81.0 percent were retained in care during 2021.
- Viral suppression: In 2021, 67.4 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.

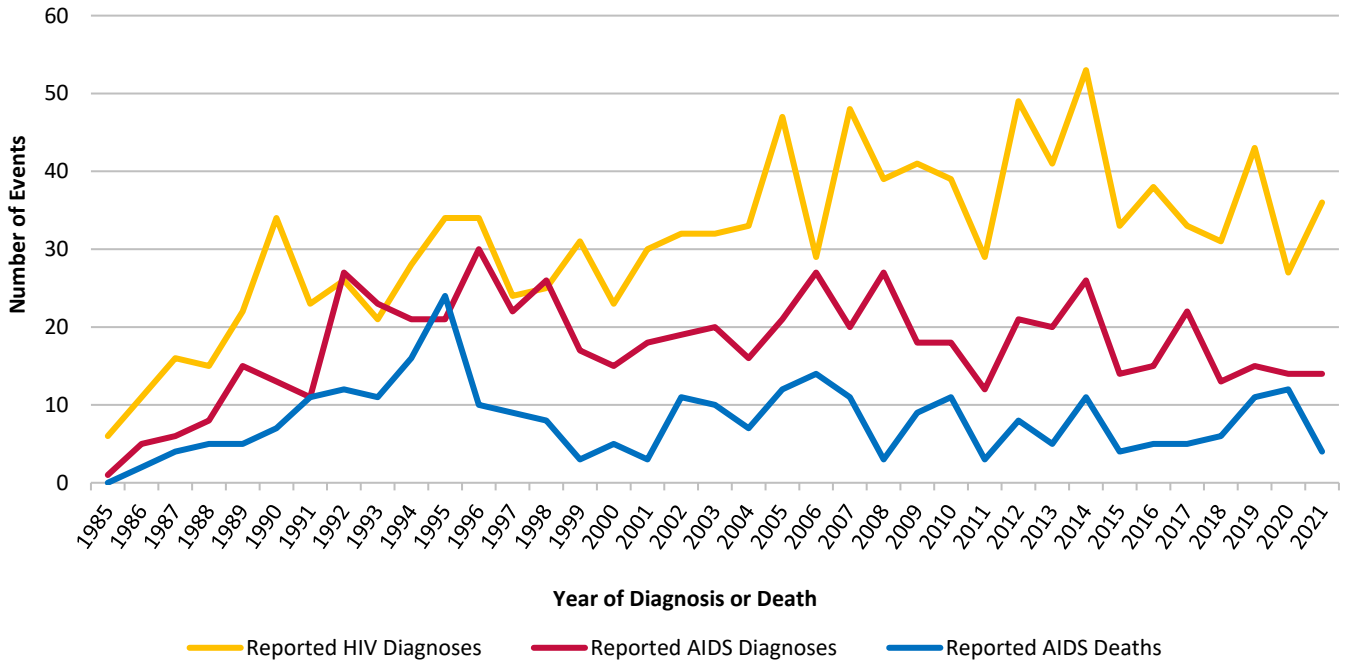
Multiple Imputation

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



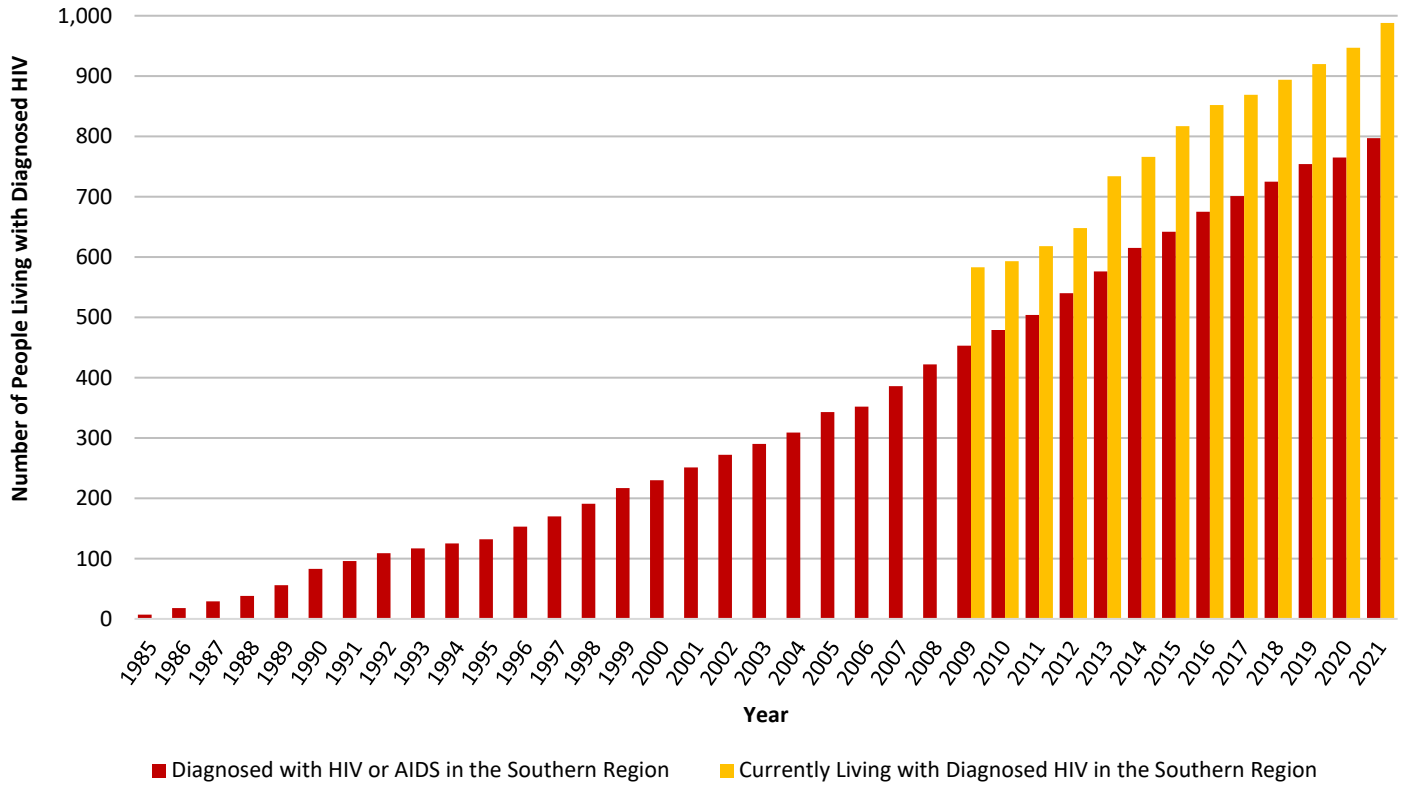
Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	2	1	1	**2003**	32	20	10
1985	6	1	0	**2004**	33	16	7
1986	11	5	2	**2005**	47	21	12
1987	16	6	4	**2006**	29	27	14
1988	15	8	5	**2007**	48	20	11
1989	22	15	5	**2008**	39	27	3
1990	34	13	7	**2009**	41	18	9
1991	23	11	11	**2010**	39	18	11
1992	26	27	12	**2011**	29	12	3
1993	21	23	11	**2012**	49	21	8
1994	28	21	16	**2013**	41	20	5
1995	34	21	24	**2014**	53	26	11
1996	34	30	10	**2015**	33	14	4
1997	24	22	9	**2016**	38	15	5
1998	25	26	8	**2017**	33	22	5
1999	31	17	3	**2018**	31	13	6
2000	23	15	5	**2019**	43	15	11
2001	30	18	3	**2020***	27	14	12
2002	32	19	11	**2021***	36	14	4
				Total	1,158	652	298

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

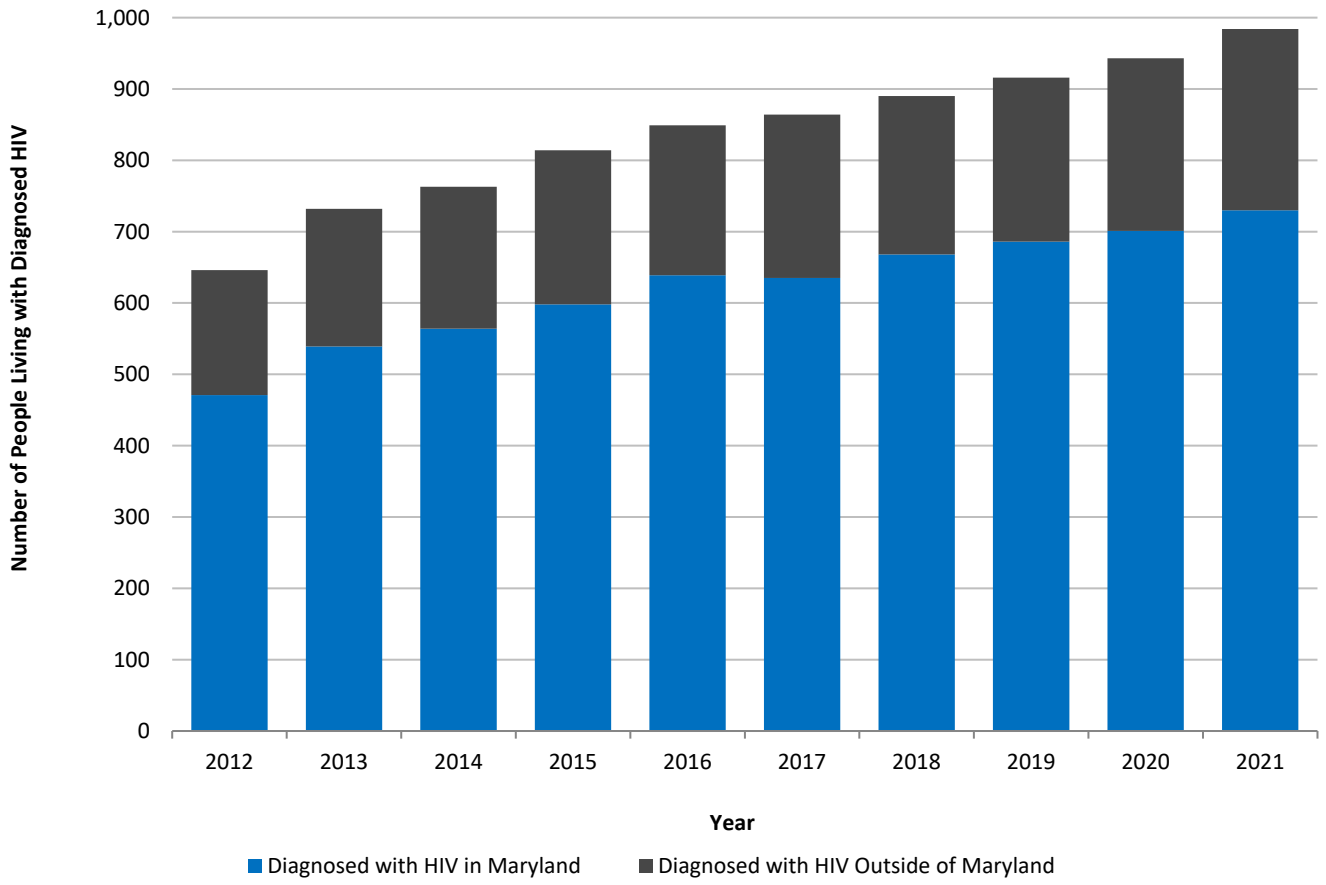


Year	People Living with Diagnosed HIV		Year	People Living with Diagnosed HIV	
	Diagnosed with HIV or AIDS in the Southern Region	Current Residents		Diagnosed with HIV or AIDS in the Southern Region	Current Residents
1985	7	--	**2003**	290	--
1986	18	--	**2004**	309	--
1987	29	--	**2005**	343	--
1988	38	--	**2006**	352	--
1989	56	--	**2007**	386	--
1990	83	--	**2008**	422	--
1991	96	--	**2009**	453	583
1992	109	--	**2010**	479	593
1993	117	--	**2011**	504	618
1994	125	--	**2012**	540	648
1995	132	--	**2013**	576	734
1996	153	--	**2014**	615	766
1997	170	--	**2015**	642	817
1998	191	--	**2016**	675	852
1999	217	--	**2017**	701	869
2000	230	--	**2018**	725	894
2001	251	--	**2019**	754	920
2002	272	--	**2020**	765	947
			2021	797	988

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 Southern Region and Not Reported to have Died as of December 31st of Each Year from 2012 through 2021, as Reported through June 30, 2022

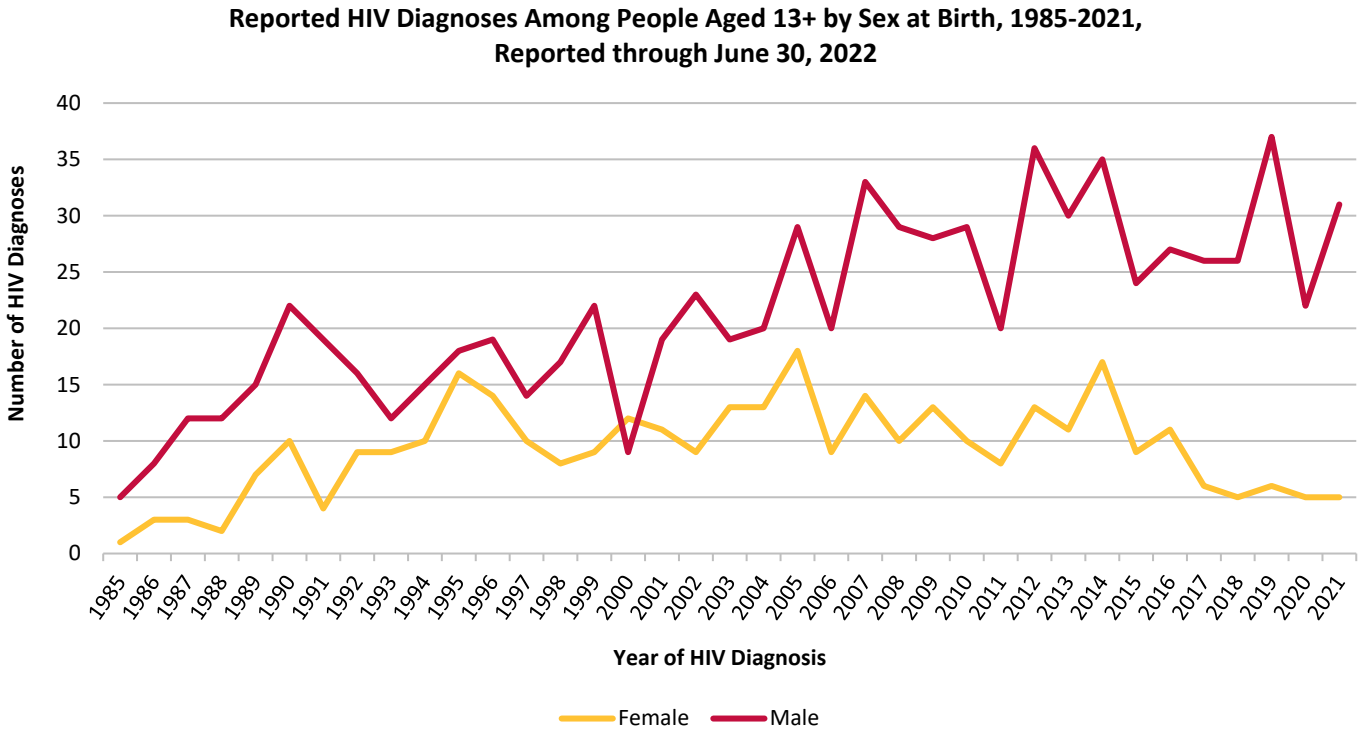


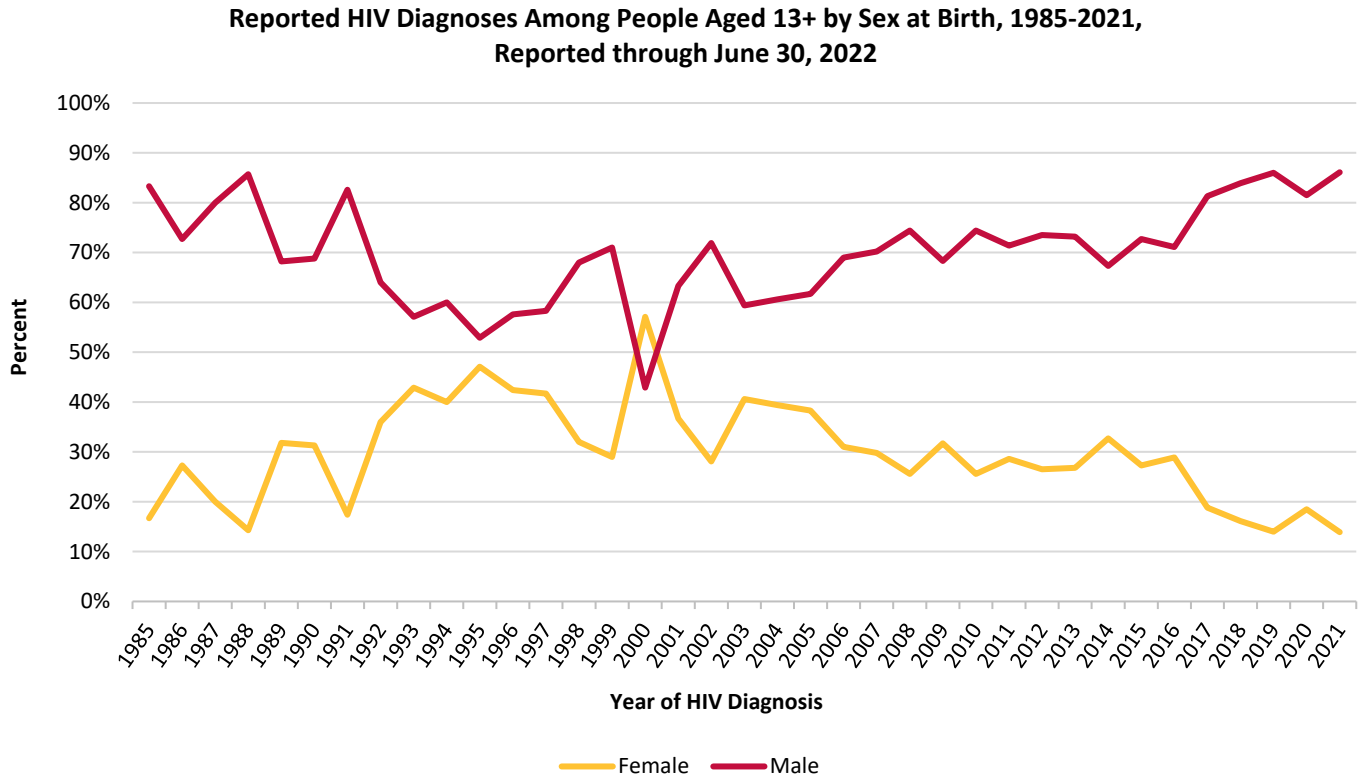
Year	Population Aged 13+	Southern Region Residents Aged 13+ as of December 31st of the Specified Year			
		Diagnosed with HIV in Maryland	Diagnosed with HIV Outside of Maryland	Total	Rate
2012	287,774	471	175	646	224.5
2013	291,342	539	193	732	251.3
2014	294,126	564	199	763	259.4
2015	296,684	598	216	814	274.4
2016	299,642	639	210	849	283.3
2017	302,566	635	229	864	285.6
2018	305,737	668	222	890	291.1
2019	308,586	686	230	916	296.8
2020	310,599	701	242	943	303.6
2021	314,803	730	254	984	312.6

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



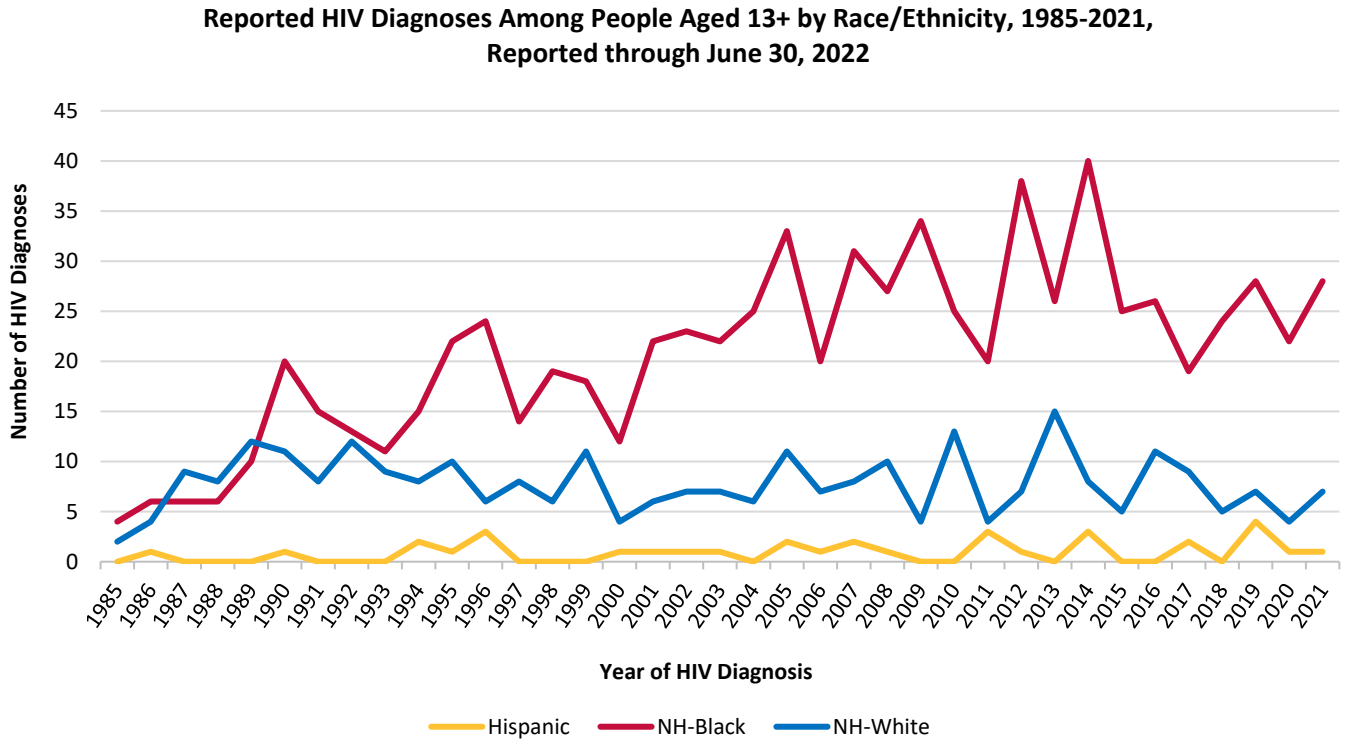


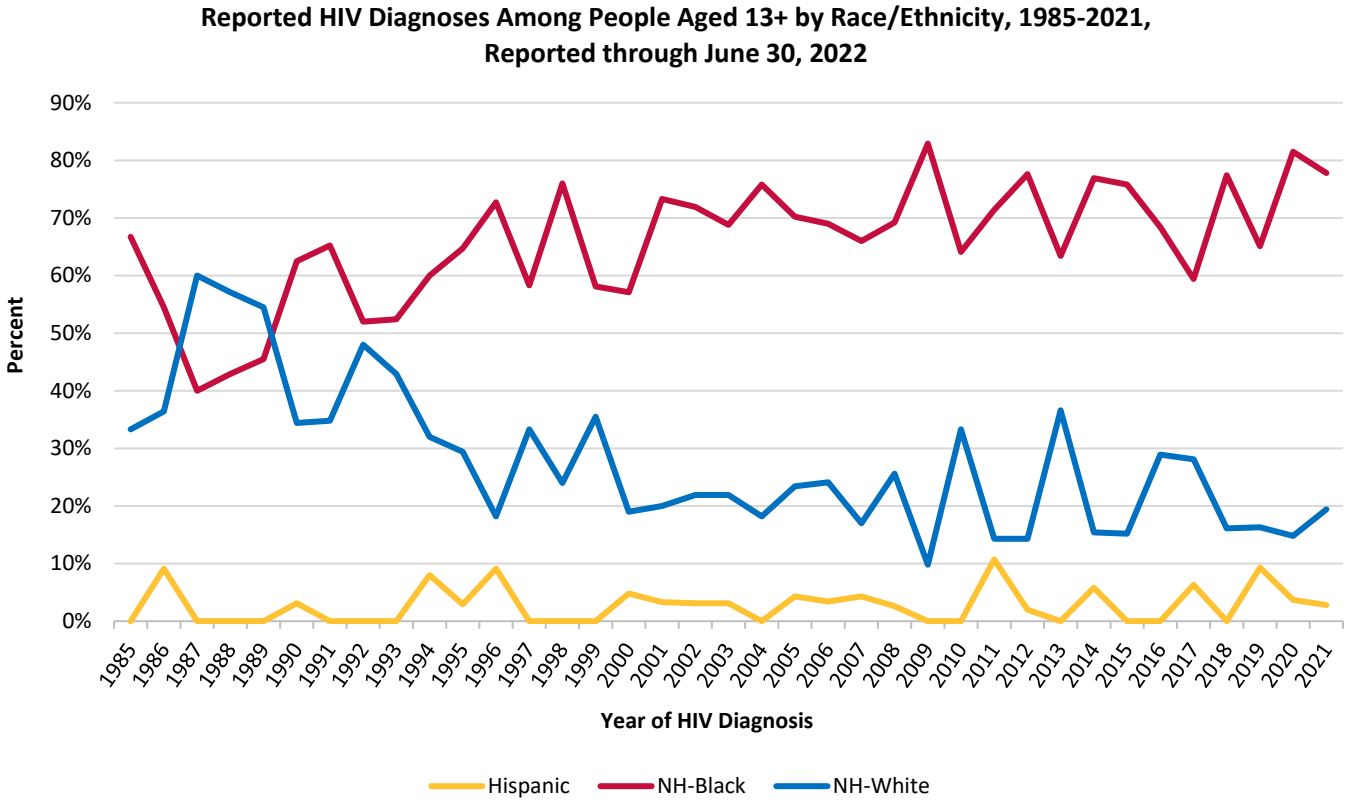
Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+				
	Number	Sex at Birth			
		Female		Male	
		Number	Percent	Number	Percent
<1985	2	0	0.0%	2	100.0%
1985	6	1	16.7%	5	83.3%
1986	11	3	27.3%	8	72.7%
1987	15	3	20.0%	12	80.0%
1988	14	2	14.3%	12	85.7%
1989	22	7	31.8%	15	68.2%
1990	32	10	31.3%	22	68.8%
1991	23	4	17.4%	19	82.6%
1992	25	9	36.0%	16	64.0%
1993	21	9	42.9%	12	57.1%
1994	25	10	40.0%	15	60.0%
1995	34	16	47.1%	18	52.9%
1996	33	14	42.4%	19	57.6%
1997	24	10	41.7%	14	58.3%
1998	25	8	32.0%	17	68.0%
1999	31	9	29.0%	22	71.0%
2000	21	12	57.1%	9	42.9%
2001	30	11	36.7%	19	63.3%
2002	32	9	28.1%	23	71.9%
2003	32	13	40.6%	19	59.4%
2004	33	13	39.4%	20	60.6%
2005	47	18	38.3%	29	61.7%
2006	29	9	31.0%	20	69.0%
2007	47	14	29.8%	33	70.2%
2008	39	10	25.6%	29	74.4%
2009	41	13	31.7%	28	68.3%
2010	39	10	25.6%	29	74.4%
2011	28	8	28.6%	20	71.4%
2012	49	13	26.5%	36	73.5%
2013	41	11	26.8%	30	73.2%
2014	52	17	32.7%	35	67.3%
2015	33	9	27.3%	24	72.7%
2016	38	11	28.9%	27	71.1%
2017	32	6	18.8%	26	81.3%
2018	31	5	16.1%	26	83.9%
2019	43	6	14.0%	37	86.0%
2020	27	5	18.5%	22	81.5%
2021	36	5	13.9%	31	86.1%
Total	1,143	343	30.0%	800	70.0%

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.

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





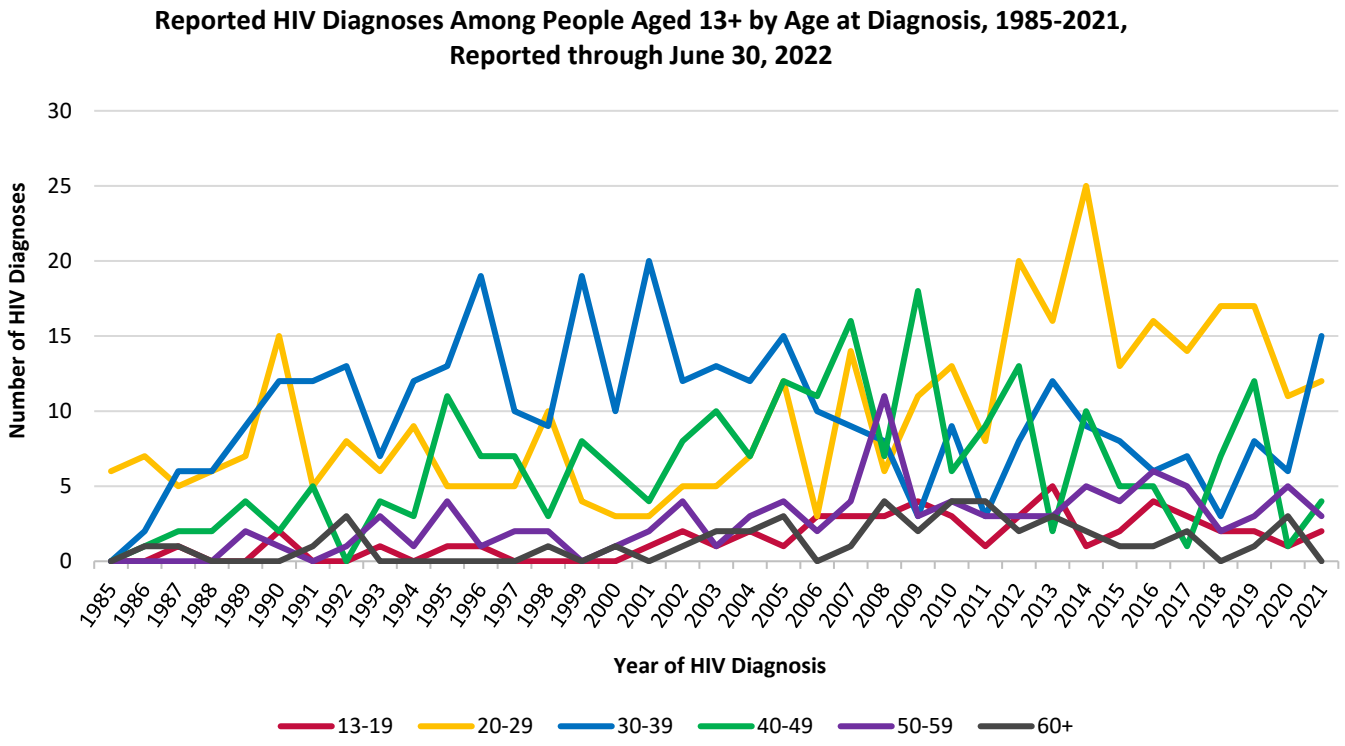
NH: Non-Hispanic
NH-Asian, NH-American Indian, NH-Native Hawaiian/Other Pacific Islander, NH-Multiracial/Other not shown

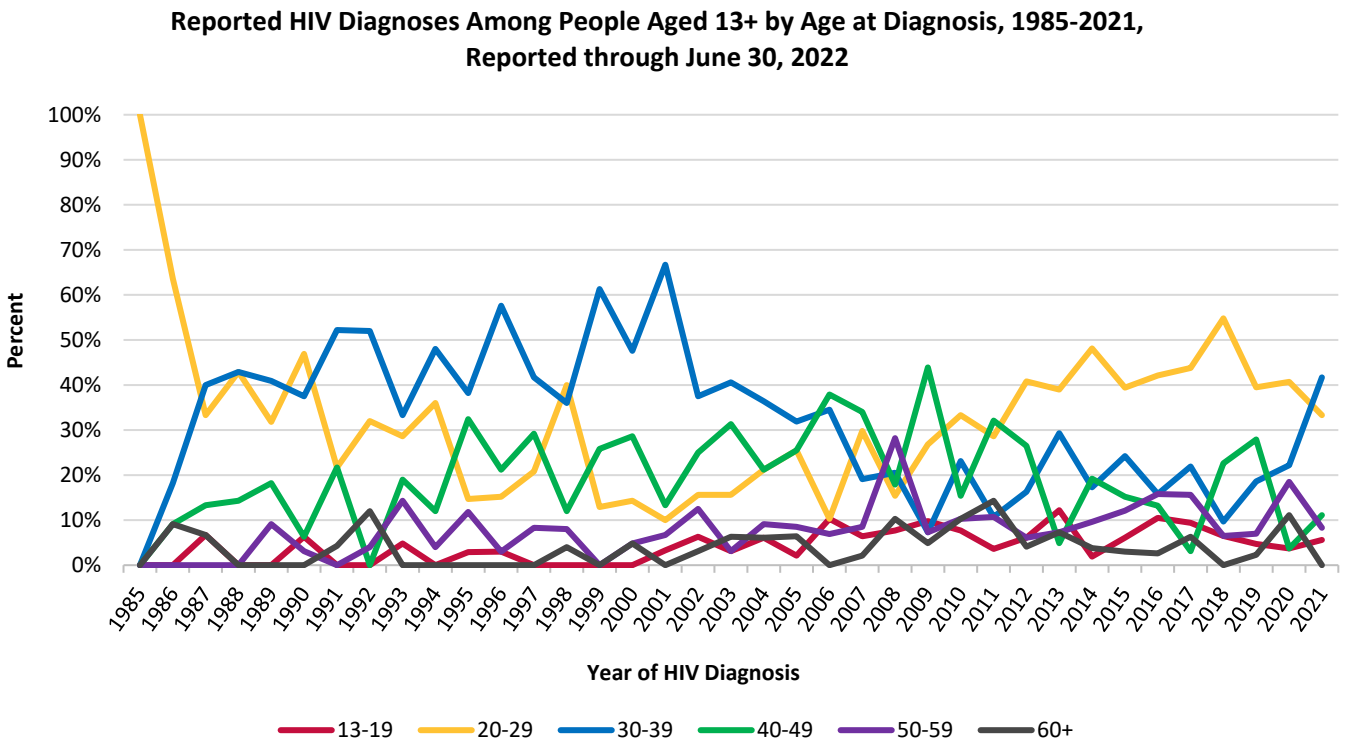
Year of HIV Diagnosis	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	2	0	0.0%	1	50.0%	1	50.0%	0	0.0%
1985	6	0	0.0%	4	66.7%	2	33.3%	0	0.0%
1986	11	1	9.1%	6	54.5%	4	36.4%	0	0.0%
1987	15	0	0.0%	6	40.0%	9	60.0%	0	0.0%
1988	14	0	0.0%	6	42.9%	8	57.1%	0	0.0%
1989	22	0	0.0%	10	45.5%	12	54.5%	0	0.0%
1990	32	1	3.1%	20	62.5%	11	34.4%	0	0.0%
1991	23	0	0.0%	15	65.2%	8	34.8%	0	0.0%
1992	25	0	0.0%	13	52.0%	12	48.0%	0	0.0%
1993	21	0	0.0%	11	52.4%	9	42.9%	1	4.8%
1994	25	2	8.0%	15	60.0%	8	32.0%	0	0.0%
1995	34	1	2.9%	22	64.7%	10	29.4%	1	2.9%
1996	33	3	9.1%	24	72.7%	6	18.2%	0	0.0%
1997	24	0	0.0%	14	58.3%	8	33.3%	2	8.3%
1998	25	0	0.0%	19	76.0%	6	24.0%	0	0.0%
1999	31	0	0.0%	18	58.1%	11	35.5%	2	6.5%
2000	21	1	4.8%	12	57.1%	4	19.0%	4	19.0%
2001	30	1	3.3%	22	73.3%	6	20.0%	1	3.3%
2002	32	1	3.1%	23	71.9%	7	21.9%	1	3.1%
2003	32	1	3.1%	22	68.8%	7	21.9%	2	6.3%
2004	33	0	0.0%	25	75.8%	6	18.2%	2	6.1%
2005	47	2	4.3%	33	70.2%	11	23.4%	1	2.1%
2006	29	1	3.4%	20	69.0%	7	24.1%	1	3.4%
2007	47	2	4.3%	31	66.0%	8	17.0%	6	12.8%
2008	39	1	2.6%	27	69.2%	10	25.6%	1	2.6%
2009	41	0	0.0%	34	82.9%	4	9.8%	3	7.3%
2010	39	0	0.0%	25	64.1%	13	33.3%	1	2.6%
2011	28	3	10.7%	20	71.4%	4	14.3%	1	3.6%
2012	49	1	2.0%	38	77.6%	7	14.3%	3	6.1%
2013	41	0	0.0%	26	63.4%	15	36.6%	0	0.0%
2014	52	3	5.8%	40	76.9%	8	15.4%	1	1.9%
2015	33	0	0.0%	25	75.8%	5	15.2%	3	9.1%
2016	38	0	0.0%	26	68.4%	11	28.9%	1	2.6%
2017	32	2	6.3%	19	59.4%	9	28.1%	2	6.3%
2018	31	0	0.0%	24	77.4%	5	16.1%	2	6.5%
2019	43	4	9.3%	28	65.1%	7	16.3%	4	9.3%
2020	27	1	3.7%	22	81.5%	4	14.8%	0	0.0%
2021	36	1	2.8%	28	77.8%	7	19.4%	0	0.0%
Total	1,143	33	2.9%	774	67.7%	290	25.4%	46	4.0%

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.

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





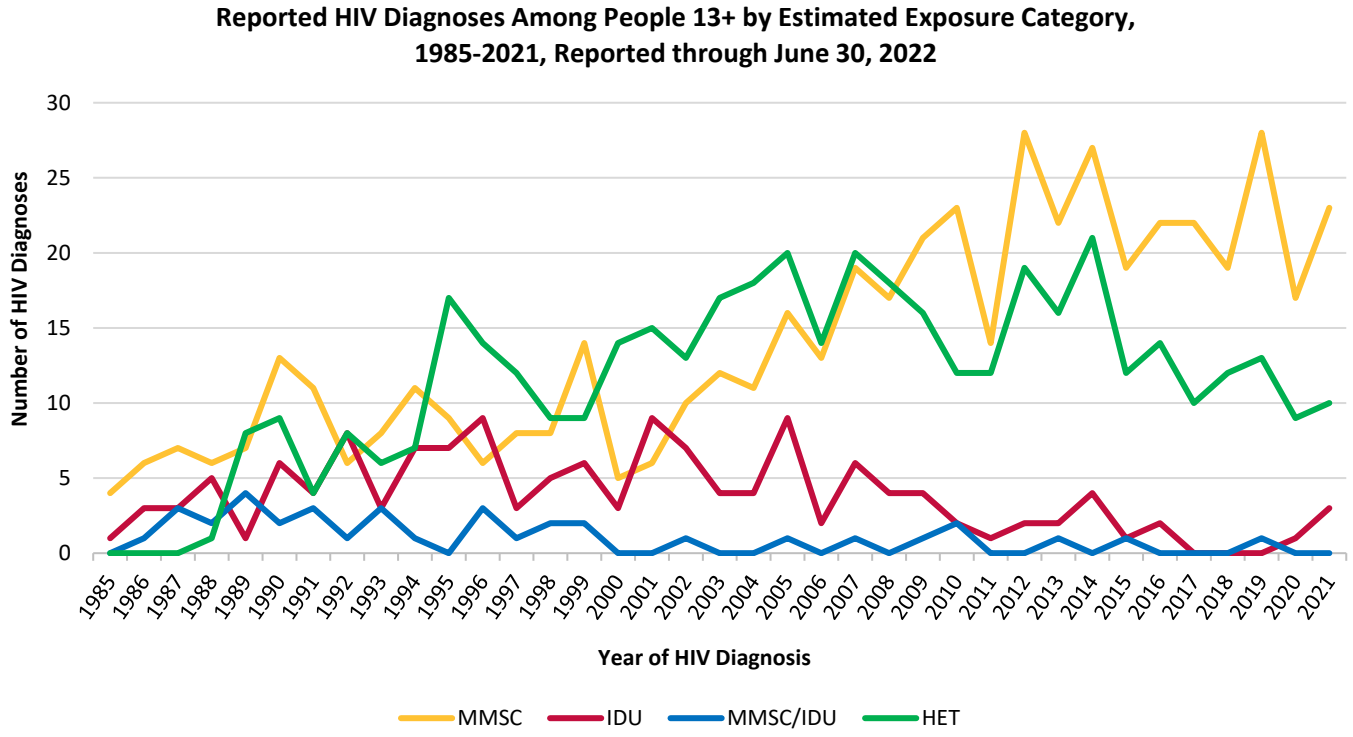
Year of HIV Diagnosis	No.	Age at HIV Diagnosis											
		13-19		20-29		30-39		40-49		50-59		60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	2	1	50.0%	0	0.0%	0	0.0%	1	50.0%	0	0.0%	0	0.0%
1985	6	0	0.0%	6	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
1986	11	0	0.0%	7	63.6%	2	18.2%	1	9.1%	0	0.0%	1	9.1%
1987	15	1	6.7%	5	33.3%	6	40.0%	2	13.3%	0	0.0%	1	6.7%
1988	14	0	0.0%	6	42.9%	6	42.9%	2	14.3%	0	0.0%	0	0.0%
1989	22	0	0.0%	7	31.8%	9	40.9%	4	18.2%	2	9.1%	0	0.0%
1990	32	2	6.3%	15	46.9%	12	37.5%	2	6.3%	1	3.1%	0	0.0%
1991	23	0	0.0%	5	21.7%	12	52.2%	5	21.7%	0	0.0%	1	4.3%
1992	25	0	0.0%	8	32.0%	13	52.0%	0	0.0%	1	4.0%	3	12.0%
1993	21	1	4.8%	6	28.6%	7	33.3%	4	19.0%	3	14.3%	0	0.0%
1994	25	0	0.0%	9	36.0%	12	48.0%	3	12.0%	1	4.0%	0	0.0%
1995	34	1	2.9%	5	14.7%	13	38.2%	11	32.4%	4	11.8%	0	0.0%
1996	33	1	3.0%	5	15.2%	19	57.6%	7	21.2%	1	3.0%	0	0.0%
1997	24	0	0.0%	5	20.8%	10	41.7%	7	29.2%	2	8.3%	0	0.0%
1998	25	0	0.0%	10	40.0%	9	36.0%	3	12.0%	2	8.0%	1	4.0%
1999	31	0	0.0%	4	12.9%	19	61.3%	8	25.8%	0	0.0%	0	0.0%
2000	21	0	0.0%	3	14.3%	10	47.6%	6	28.6%	1	4.8%	1	4.8%
2001	30	1	3.3%	3	10.0%	20	66.7%	4	13.3%	2	6.7%	0	0.0%
2002	32	2	6.3%	5	15.6%	12	37.5%	8	25.0%	4	12.5%	1	3.1%
2003	32	1	3.1%	5	15.6%	13	40.6%	10	31.3%	1	3.1%	2	6.3%
2004	33	2	6.1%	7	21.2%	12	36.4%	7	21.2%	3	9.1%	2	6.1%
2005	47	1	2.1%	12	25.5%	15	31.9%	12	25.5%	4	8.5%	3	6.4%
2006	29	3	10.3%	3	10.3%	10	34.5%	11	37.9%	2	6.9%	0	0.0%
2007	47	3	6.4%	14	29.8%	9	19.1%	16	34.0%	4	8.5%	1	2.1%
2008	39	3	7.7%	6	15.4%	8	20.5%	7	17.9%	11	28.2%	4	10.3%
2009	41	4	9.8%	11	26.8%	3	7.3%	18	43.9%	3	7.3%	2	4.9%
2010	39	3	7.7%	13	33.3%	9	23.1%	6	15.4%	4	10.3%	4	10.3%
2011	28	1	3.6%	8	28.6%	3	10.7%	9	32.1%	3	10.7%	4	14.3%
2012	49	3	6.1%	20	40.8%	8	16.3%	13	26.5%	3	6.1%	2	4.1%
2013	41	5	12.2%	16	39.0%	12	29.3%	2	4.9%	3	7.3%	3	7.3%
2014	52	1	1.9%	25	48.1%	9	17.3%	10	19.2%	5	9.6%	2	3.8%
2015	33	2	6.1%	13	39.4%	8	24.2%	5	15.2%	4	12.1%	1	3.0%
2016	38	4	10.5%	16	42.1%	6	15.8%	5	13.2%	6	15.8%	1	2.6%
2017	32	3	9.4%	14	43.8%	7	21.9%	1	3.1%	5	15.6%	2	6.3%
2018	31	2	6.5%	17	54.8%	3	9.7%	7	22.6%	2	6.5%	0	0.0%
2019	43	2	4.7%	17	39.5%	8	18.6%	12	27.9%	3	7.0%	1	2.3%
2020	27	1	3.7%	11	40.7%	6	22.2%	1	3.7%	5	18.5%	3	11.1%
2021	36	2	5.6%	12	33.3%	15	41.7%	4	11.1%	3	8.3%	0	0.0%
Total	1,143	56	4.9%	354	31.0%	355	31.1%	234	20.5%	98	8.6%	46	4.0%

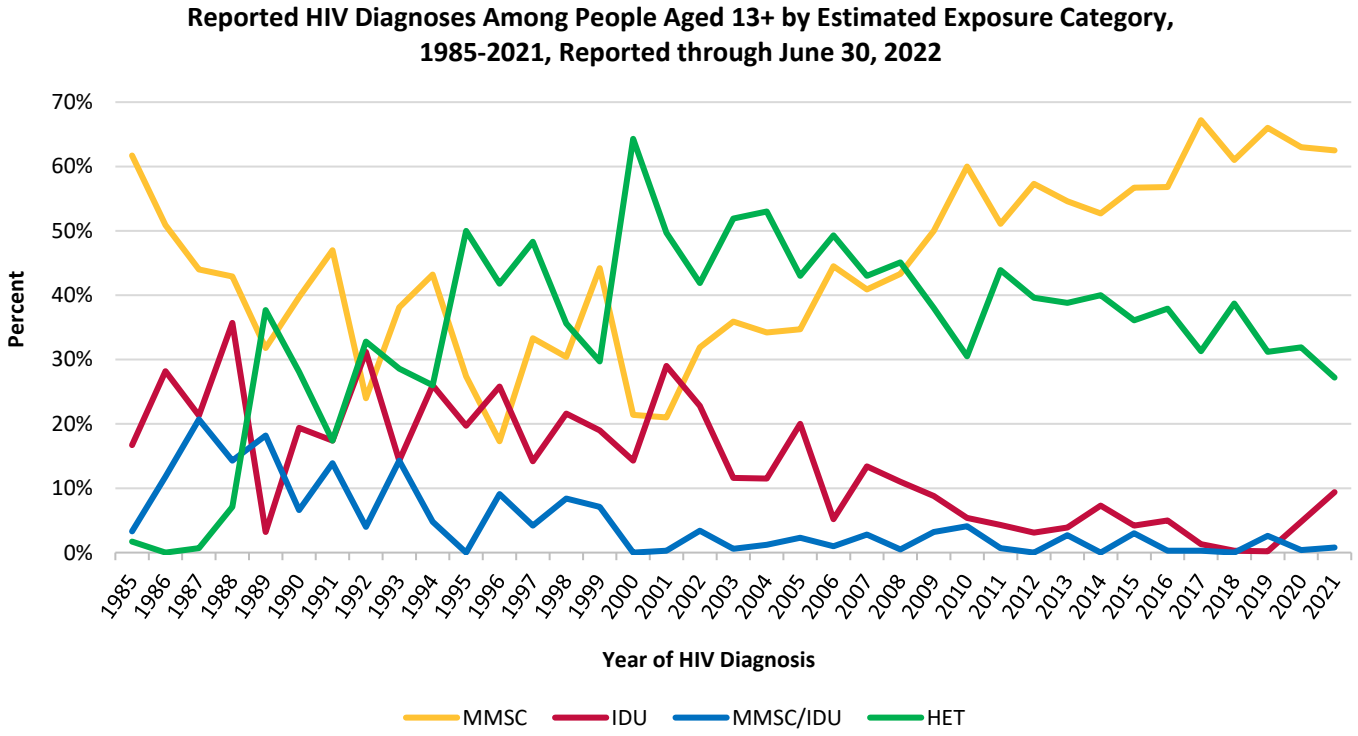
Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

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	No.	% with No Reported Exposure[¥]	Estimated Exposure Category[§]									
			MMSC		IDU		MMSC/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	2	0.0%	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
1985	6	16.7%	4	61.7%	1	16.7%	0	3.3%	0	1.7%	1	16.7%
1986	11	9.1%	6	50.9%	3	28.2%	1	11.8%	0	0.0%	1	9.1%
1987	15	13.3%	7	44.0%	3	21.3%	3	20.7%	0	0.7%	2	13.3%
1988	14	0.0%	6	42.9%	5	35.7%	2	14.3%	1	7.1%	0	0.0%
1989	22	4.5%	7	31.8%	1	3.2%	4	18.2%	8	37.7%	2	9.1%
1990	32	3.1%	13	39.7%	6	19.4%	2	6.6%	9	28.1%	2	6.3%
1991	23	8.7%	11	47.0%	4	17.4%	3	13.9%	4	17.4%	1	4.3%
1992	25	4.0%	6	24.0%	8	31.2%	1	4.0%	8	32.8%	2	8.0%
1993	21	0.0%	8	38.1%	3	14.3%	3	14.3%	6	28.6%	1	4.8%
1994	25	8.0%	11	43.2%	7	26.0%	1	4.8%	7	26.0%	0	0.0%
1995	34	8.8%	9	27.4%	7	19.7%	0	0.0%	17	50.0%	1	2.9%
1996	33	18.2%	6	17.3%	9	25.8%	3	9.1%	14	41.8%	2	6.1%
1997	24	4.2%	8	33.3%	3	14.2%	1	4.2%	12	48.3%	0	0.0%
1998	25	24.0%	8	30.4%	5	21.6%	2	8.4%	9	35.6%	1	4.0%
1999	31	16.1%	14	44.2%	6	19.0%	2	7.1%	9	29.7%	0	0.0%
2000	21	19.0%	5	21.4%	3	14.3%	0	0.0%	14	64.3%	0	0.0%
2001	30	16.7%	6	21.0%	9	29.0%	0	0.3%	15	49.7%	0	0.0%
2002	32	12.5%	10	31.9%	7	22.8%	1	3.4%	13	41.9%	0	0.0%
2003	32	18.8%	12	35.9%	4	11.6%	0	0.6%	17	51.9%	0	0.0%
2004	33	30.3%	11	34.2%	4	11.5%	0	1.2%	18	53.0%	0	0.0%
2005	47	21.3%	16	34.7%	9	20.0%	1	2.3%	20	43.0%	0	0.0%
2006	29	20.7%	13	44.5%	2	5.2%	0	1.0%	14	49.3%	0	0.0%
2007	47	36.2%	19	40.9%	6	13.4%	1	2.8%	20	43.0%	0	0.0%
2008	39	30.8%	17	43.3%	4	11.0%	0	0.5%	18	45.1%	0	0.0%
2009	41	61.0%	21	50.0%	4	8.8%	1	3.2%	16	38.0%	0	0.0%
2010	39	48.7%	23	60.0%	2	5.4%	2	4.1%	12	30.5%	0	0.0%
2011	28	42.9%	14	51.1%	1	4.3%	0	0.7%	12	43.9%	0	0.0%
2012	49	22.4%	28	57.3%	2	3.1%	0	0.0%	19	39.6%	0	0.0%
2013	41	24.4%	22	54.6%	2	3.9%	1	2.7%	16	38.8%	0	0.0%
2014	52	17.3%	27	52.7%	4	7.3%	0	0.0%	21	40.0%	0	0.0%
2015	33	9.1%	19	56.7%	1	4.2%	1	3.0%	12	36.1%	0	0.0%
2016	38	10.5%	22	56.8%	2	5.0%	0	0.3%	14	37.9%	0	0.0%
2017	32	9.4%	22	67.2%	0	1.3%	0	0.3%	10	31.3%	0	0.0%
2018	31	3.2%	19	61.0%	0	0.3%	0	0.0%	12	38.7%	0	0.0%
2019	43	9.3%	28	66.0%	0	0.2%	1	2.6%	13	31.2%	0	0.0%
2020	27	14.8%	17	63.0%	1	4.8%	0	0.4%	9	31.9%	0	0.0%
2021	36	36.1%	23	62.5%	3	9.4%	0	0.8%	10	27.2%	0	0.0%
Total	1,143	19.6%	520	45.5%	141	12.3%	37	3.2%	429	37.5%	16	1.4%

§ 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.

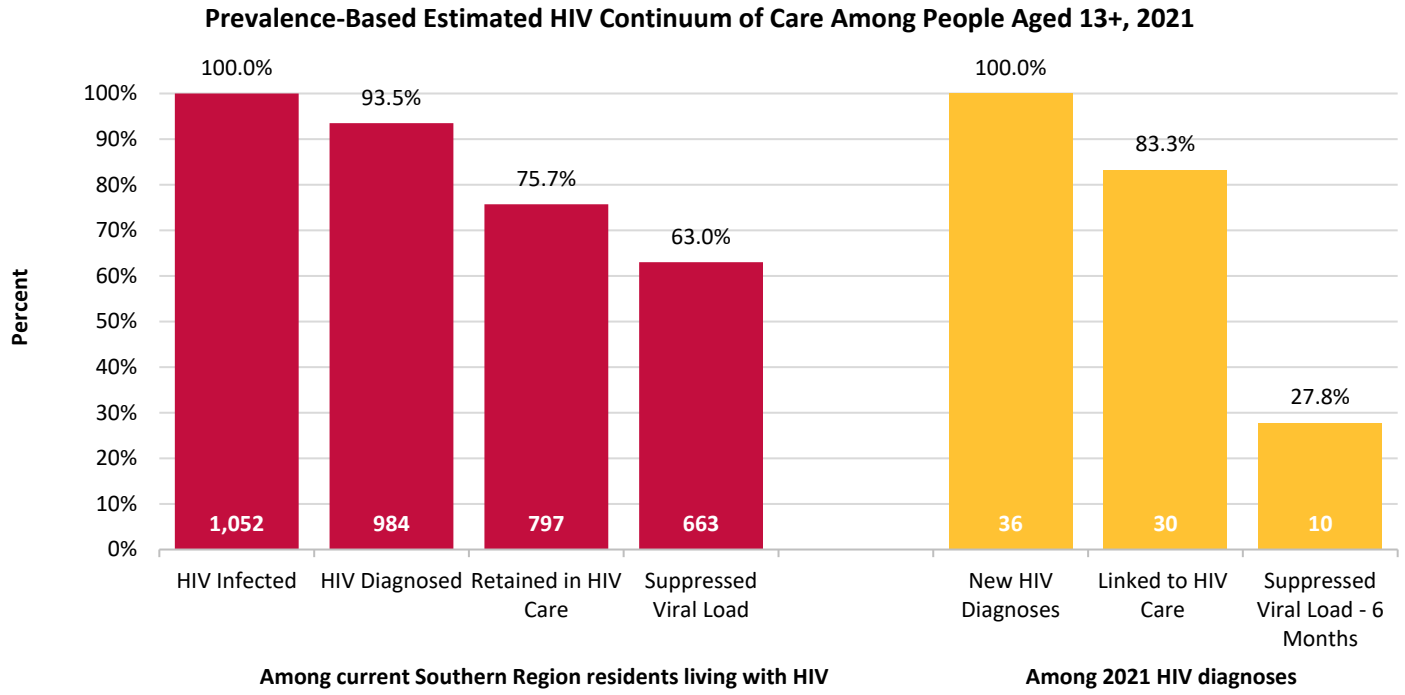
Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

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 Southern Region Residents Aged 13+, Reported through June 30, 2022

The prevalence-based Southern 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 (6.5%) and the estimated number of people living with HIV currently residing in the Southern Region. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Southern 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.



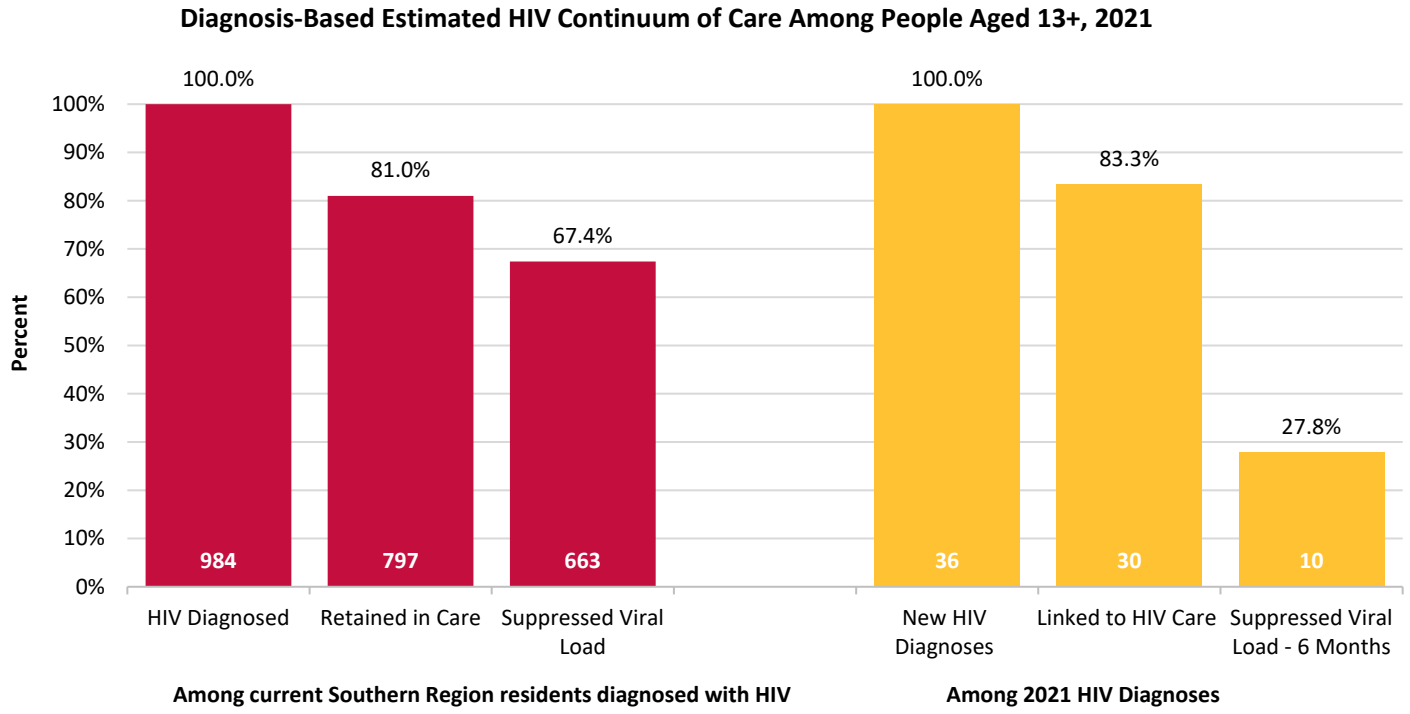
Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2021 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected	1,052	100.0%	New HIV Diagnoses	36	100.0%
HIV Diagnosed	984	93.5%	Linked to HIV Care	30	83.3%
Retained in HIV Care	797	75.7%	Suppressed Viral Load – 6 Months	10	27.8%
Suppressed Viral Load	663	63.0%			

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 Southern Region Residents Aged 13+, Reported through June 30, 2022

The diagnosis-based Southern Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Southern Region residents to describe the number and percentage of persons living with diagnosed HIV in the Southern 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	984	100.0%	New HIV Diagnoses	36	100.0%
Retained in HIV Care	797	81.0%	Linked to HIV Care	30	83.3%
Suppressed Viral Load	663	67.4%	Suppressed Viral Load – 6 Months	10	27.8%

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.

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	11.1%	5.1	2	14.3%	2.5
Charles	140,617	25	69.4%	17.8	11	78.6%	7.8
Saint Mary's	95,213	7	19.4%	7.4	1	7.1%	1.1
Total	314,803	36	100.0%	11.4	14	100.0%	4.4

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
Saint Mary's	7	***	***	***	***	***
Total	36	83.3%	27.8%	16.7%	97.2%	366

*** 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	14.7%	148.2	675	136	13.8%	172.2	581	16.2%
Charles	140,617	530	66.8%	376.9	265	679	69.0%	482.9	207	28.1%
Saint Mary's	95,213	147	18.5%	154.4	648	169	17.2%	177.5	563	15.0%
Total	314,803	794	100.0%	252.2	396	984	100.0%	312.6	320	23.9%

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%
Saint Mary's	169	134	79.3%	625	9.7%	11.9%	17.9%	60.4%
Total	984	779	79.2%	669	8.3%	10.9%	15.0%	65.7%

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
Saint Mary's	169	130	76.9%	87.7%	32,031
Total	984	739	75.1%	89.7%	20,551

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)	21,606	0	0.0%	0.0	--	--	--	--	--
5-12 (Pediatric)	40,685	0	0.0%	0.0	--	--	--	--	--
13-19	36,413	2	5.6%	5.5	***	***	***	***	***
20-29	46,019	12	33.3%	26.1	91.7%	***	***	91.7%	315
30-39	51,085	15	41.7%	29.4	73.3%	33.3%	***	100.0%	366
40-49	47,341	4	11.1%	8.4	***	***	***	***	***
50-59	56,552	3	8.3%	5.3	***	***	***	***	***
60+	77,393	0	0.0%	0.0	--	--	--	--	--
Total	377,094	36	100.0%	9.5	83.3%	27.8%	16.7%	97.2%	366

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)	21,606	1	0.1%	4.6	21,606
5-12 (Pediatric)	40,685	3	0.3%	7.4	13,562
13-19	36,413	2	0.2%	5.5	18,207
20-29	46,019	91	9.2%	197.7	506
30-39	51,085	224	22.7%	438.5	228
40-49	47,341	197	19.9%	416.1	240
50-59	56,552	280	28.3%	495.1	202
60+	77,393	190	19.2%	245.5	407
Total	377,094	988	100.0%	262.0	382

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	2	***	***	***	***	***	***	***
20-29	91	***	***	***	***	***	***	***
30-39	224	167	74.6%	686	10.2%	12.0%	12.6%	65.3%
40-49	197	156	79.2%	690	6.4%	10.3%	14.1%	69.2%
50-59	280	229	81.8%	674	8.7%	10.0%	14.0%	67.2%
60+	190	161	84.7%	595	7.5%	11.8%	21.7%	59.0%
Total	984	779	79.2%	669	8.3%	10.9%	15.0%	65.7%

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

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	2	***	***	***	***
20-29	91	***	***	***	***
30-39	224	155	69.2%	81.9%	28,431
40-49	197	152	77.2%	91.4%	32,900
50-59	280	222	79.3%	91.0%	5,365
60+	190	151	79.5%	97.4%	16,500
Total	984	739	75.1%	89.7%	20,551

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

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	160,766	5	13.9%	3.1	100.0%	***	0.0%	100.0%	583
Male	154,037	31	86.1%	20.1	80.6%	***	19.4%	96.8%	364
Gender									
Cisgender Man or Boy	154,037	30	83.3%	19.5	80.0%	23.3%	16.7%	96.7%	364
Cisgender Woman or Girl	160,766	5	13.9%	3.1	***	***	***	***	***
Transgender Woman or Girl	--	1	2.8%	0	***	***	***	***	***
Transgender Man or Boy	--	0	0.0%	0	--	--	--	--	--
Another Gender Identity	--	0	0.0%	0	--	--	--	--	--
Race/Ethnicity									
Hispanic	17,066	1	2.8%	5.9	***	***	***	***	***
Non-Hispanic	297,737	35	97.2%	11.8	***	***	***	***	***
American Indian/Alaska Native, only	1,479	0	0.0%	0	--	--	--	--	--
Asian, only	9,205	0	0.0%	0	--	--	--	--	--
Black, only	95,769	28	77.8%	29.2	82.1%	28.6%	17.9%	96.4%	392
Native Hawaiian/Other Pacific Islander, only	309	0	0.0%	0	--	--	--	--	--
White, only	182,593	7	19.4%	3.8	***	***	***	***	***
Multiracial/Other	8,382	0	0.0%	0	--	--	--	--	--
Total	314,803	36	100.0%	11.4	83.3%	27.8%	16.7%	97.2%	366
Country of Birth	286,153	33	91.7%	11.5	81.8%	27.3%	18.2%	97.0%	366
United States	18,395	2	5.6%	10.9	***	***	***	***	***
Foreign-Born	--	1	2.8%	--	***	***	***	***	***
Africa	--	0	0.0%	--	--	--	--	--	--
Asia	--	0	0.0%	--	--	--	--	--	--
Caribbean	--	1	2.8%	--	***	***	***	***	***
Central America	--	0	0.0%	--	--	--	--	--	--
Other	--	1	2.8%	--	***	***	***	***	***
Unknown	304,548	36	100.0%	11.8	83.3%	27.8%	16.7%	97.2%	366
Total	286,153	33	91.7%	11.5	81.8%	27.3%	18.2%	97.0%	366

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	8,470	0	0.0%	0.0	8,596	1	3.2%	11.6
Non-Hispanic	152,296	5	100.0%	3.3	145,441	30	96.8%	20.6
American Indian/Alaska Native, only	741	0	0.0%	0.0	737	0	0.0%	0.0
Asian, only	5,241	0	0.0%	0.0	3,963	0	0.0%	0.0
Black, only	50,568	5	100.0%	9.9	45,201	23	74.2%	50.9
Native Hawaiian/Other Pacific Islander, only	145	0	0.0%	0.0	165	0	0.0%	0.0
White, only	91,200	0	0.0%	0.0	91,392	7	22.6%	7.7
Multiracial/Other	4,400	0	0.0%	0.0	3,983	0	0.0%	0.0
Total	160,766	5	100.0%	3.1	154,037	31	100.0%	20.1

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	160,766	308	31.3%	191.6	522
Male	154,037	676	68.7%	438.9	228
Gender					
Cisgender Man or Boy	154,037	663	67.4%	430.4	232
Cisgender Woman or Girl	160,766	308	31.3%	191.6	522
Transgender Woman or Girl	--	13	1.3%	--	--
Transgender Man or Boy	--	0	0.0%	--	--
Another Gender Identity	--	0	0.0%	--	--
Race/Ethnicity					
Hispanic	17,066	37	3.8%	216.8	461
Non-Hispanic	297,737	947	96.2%	318.1	314
American Indian/Alaska Native, only	1,479	0	0.0%	0.0	--
Asian, only	9,205	6	0.6%	65.2	1,534
Black, only	95,769	723	73.5%	754.9	132
Native Hawaiian/Other Pacific Islander, only	309	0	0.0%	0.0	--
White, only	182,593	183	18.6%	100.2	998
Multiracial/Other	8,382	35	3.6%	417.5	239
Total	314,803	984	100.0%	312.6	320
Country of Birth					
United States	286,153	915	93.0%	319.8	313
Foreign-Born	18,395	41	4.2%	222.9	449
Africa	--	17	1.7%	--	--
Asia	--	6	0.6%	--	--
Caribbean	--	2	0.2%	--	--
Central America	--	11	1.1%	--	--
Other	--	5	0.5%	--	--
Unknown	--	28	2.8%	--	--
Total	304,548	984	100.0%	323.1	309

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	8,470	8	2.6%	94.4	8,596	29	4.3%	337.4
Non-Hispanic	152,296	300	97.4%	197.0	145,441	647	95.7%	444.9
American Indian/Alaska Native, only	741	0	0.0%	0.0	737	0	0.0%	0.0
Asian, only	5,241	2	0.6%	38.2	3,963	4	0.6%	100.9
Black, only	50,568	248	80.5%	490.4	45,201	475	70.3%	1,050.9
Native Hawaiian/Other Pacific Islander, only	145	0	0.0%	0.0	165	0	0.0%	0.0
White, only	91,200	32	10.4%	35.1	91,392	151	22.3%	165.2
Multiracial/Other	4,400	18	5.8%	409.1	3,983	17	2.5%	426.9
Total	160,766	308	100.0%	191.6	154,037	676	100.0%	438.9

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

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	308	256	83.1%	706	8.2%	9.8%	10.2%	71.9%
Male	676	523	77.4%	648	8.4%	11.5%	17.4%	62.7%
Gender								
Cisgender Man or Boy	663	513	77.4%	647	8.6%	11.7%	17.5%	62.2%
Cisgender Woman or Girl	308	256	83.1%	706	8.2%	9.8%	10.2%	71.9%
Transgender Woman or Girl	13	10	76.9%	728	0.0%	0.0%	10.0%	90.0%
Transgender Man or Boy	0	--	--	--	--	--	--	--
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	37	30	81.1%	721	6.7%	10.0%	6.7%	76.7%
Non-Hispanic	947	749	79.1%	662	8.4%	10.9%	15.4%	65.3%
American Indian/Alaska Native, only	0	--	--	--	--	--	--	--
Asian, only	6	***	***	***	***	***	***	***
Black, only	723	566	78.3%	656	8.8%	11.1%	15.7%	64.3%
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--	--	--	--
White, only	183	149	81.4%	687	8.1%	10.1%	14.8%	67.1%
Multiracial/Other	35	***	***	***	***	***	***	***
Country of Birth								
United States	915	***	***	***	***	***	***	***
Foreign-Born	41	***	***	***	***	***	***	***
Africa	17	13	76.5%	479	15.4%	0.0%	38.5%	46.2%
Asia	6	***	***	***	***	***	***	***
Caribbean	2	***	***	***	***	***	***	***
Central America	11	9	81.8%	669	11.1%	0.0%	11.1%	77.8%
Other	5	5	100.0%	631	20.0%	0.0%	0.0%	80.0%
Unknown	28	13	46.4%	851	7.7%	7.7%	0.0%	84.6%
Total	984	779	79.2%	669	8.3%	10.9%	15.0%	65.7%

*** 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	308	244	79.2%	91.4%	15,853
Male	676	495	73.2%	88.9%	22,302
Gender					
Cisgender Man or Boy	663	485	73.2%	88.7%	22,302
Cisgender Woman or Girl	308	244	79.2%	91.4%	15,853
Transgender Woman or Girl	13	10	76.9%	100.0%	--
Transgender Man or Boy	0	--	--	--	--
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	37	30	81.1%	96.7%	25,700
Non-Hispanic	947	709	74.9%	89.4%	18,800
American Indian/Alaska Native, only	0	--	--	--	--
Asian, only	6	***	***	***	***
Black, only	723	531	73.4%	87.8%	25,900
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--
White, only	183	145	79.2%	96.6%	7,740
Multiracial/Other	35	***	***	***	***
Country of Birth					
United States	915	***	***	***	***
Foreign-Born	41	***	***	***	***
Africa	17	12	70.6%	83.3%	274,610
Asia	6	***	***	***	***
Caribbean	2	***	***	***	***
Central America	11	8	72.7%	100.0%	--
Other	5	5	100.0%	100.0%	--
Unknown	28	14	50.0%	92.9%	337,000
Total	984	739	75.1%	89.7%	20,551

*** 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	2,867	9,251	15,196	3,062	30,375
	Number	0	2	0	0	2
	Rate	0.0	21.6	0.0	0.0	6.6
	Ratio (1 in X)	--	4,625	--	--	15,187
13-19	Population	1,357	5,748	9,009	1,713	17,828
	Number	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0
	Ratio (1 in X)	--	--	--	--	--
20-29	Population	1,606	7,485	11,657	1,759	22,507
	Number	1	11	0	0	12
	Rate	62.3	147.0	0.0	0.0	53.3
	Ratio (1 in X)	1,606	680	--	--	1,876
30-39	Population	1,942	8,364	13,834	1,676	25,816
	Number	1	32	4	7	44
	Rate	51.5	382.6	28.9	417.7	170.4
	Ratio (1 in X)	1,942	261	3,459	239	587
40-49	Population	1,544	8,608	12,669	1,689	24,510
	Number	0	63	8	4	75
	Rate	0.0	731.9	63.1	236.8	306.0
	Ratio (1 in X)	--	137	1,584	422	327
50-59	Population	1,078	9,641	16,588	1,622	28,929
	Number	***	89	14	***	111
	Rate	***	923.1	84.4	***	383.7
	Ratio (1 in X)	***	108	1,185	***	261
60+	Population	943	10,722	27,443	2,068	41,176
	Number	***	53	6	***	66
	Rate	***	494.3	21.9	***	160.3
	Ratio (1 in X)	***	202	4,574	***	624
Total Females by Race/Ethnicity	Population	11,337	59,819	106,396	13,589	191,141
	Number	8	250	32	20	310
	Rate	70.6	417.9	30.1	147.2	162.2
	Ratio (1 in X)	1,417	239	3,325	679	617

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

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	2,982	9,727	15,994	3,213	31,916
	Number	0	2	0	0	2
	Rate	0.0	20.6	0.0	0.0	6.3
	Ratio (1 in X)	--	4,864	--	--	15,958
13-19	Population	1,465	5,919	9,338	1,863	18,585
	Number	1	1	0	0	2
	Rate	68.3	16.9	0.0	0.0	10.8
	Ratio (1 in X)	1,465	5,919	--	--	9,293
20-29	Population	1,599	7,287	12,803	1,823	23,512
	Number	4	67	7	1	79
	Rate	250.2	919.4	54.7	54.9	336.0
	Ratio (1 in X)	400	109	1,829	1,823	298
30-39	Population	2,019	7,758	14,149	1,343	25,269
	Number	9	139	27	5	180
	Rate	445.8	1,791.7	190.8	372.3	712.3
	Ratio (1 in X)	224	56	524	269	140
40-49	Population	1,708	7,201	12,677	1,245	22,831
	Number	8	73	35	6	122
	Rate	468.4	1,013.7	276.1	481.9	534.4
	Ratio (1 in X)	214	99	362	208	187
50-59	Population	978	8,723	16,790	1,132	27,623
	Number	***	117	41	***	169
	Rate	***	1,341.3	244.2	***	611.8
	Ratio (1 in X)	***	75	410	***	163
60+	Population	827	8,313	25,635	1,442	36,217
	Number	***	78	41	***	124
	Rate	***	938.3	159.9	***	342.4
	Ratio (1 in X)	***	107	625	***	292
Total Males by Race/Ethnicity	Population	11,578	54,928	107,386	12,061	185,953
	Number	29	477	151	21	678
	Rate	250.5	868.4	140.6	174.1	364.6
	Ratio (1 in X)	399	115	711	574	274

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

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)	23	62.5%	80.9%	27.6%	***	95.6%	366
Injection Drug Use (IDU)	3	9.4%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	0	0.0%	--	--	--	--	--
Heterosexual Contact (HET)	10	27.2%	***	***	***	***	***
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	36	100.0%	83.3%	27.8%	16.7%	97.2%	366
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	0	0.0%	--	--	--	--	--
Heterosexual Contact (HET)	5	94.0%	100.0%	***	0.0%	100.0%	583
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	5	100.0%	100.0%	***	0.0%	100.0%	583
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MMSC)	23	72.6%	80.9%	27.6%	***	95.6%	366
Injection Drug Use (IDU)	3	10.0%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	0	0.0%	--	--	--	--	--
Heterosexual Contact (HET)	5	16.5%	***	***	***	***	***
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	31	100.0%	80.6%	22.6%	19.4%	96.8%	364

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)	474	48.2%
Injection Drug Use (IDU)	81	8.2%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	25	2.5%
Heterosexual Contact (HET)	393	40.0%
Perinatal Transmission	7	0.7%
Other Exposure	1	0.1%
No Estimated or Reported Exposure	3	0.3%
Total	984	100.0%
Female Estimated or Reported Exposure Category		
Injection Drug Use (IDU)	35	11.4%
Heterosexual Contact (HET)	267	86.7%
Perinatal Transmission	4	1.3%
Other Exposure	1	0.3%
No Estimated or Reported Exposure	1	0.3%
Total	308	100.0%
Male Estimated or Reported Exposure Category		
Male-to-male Sexual Contact (MMSC)	474	70.1%
Injection Drug Use (IDU)	46	6.7%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	25	3.7%
Heterosexual Contact (HET)	126	18.7%
Perinatal Transmission	3	0.4%
Other Exposure	0	0.0%
No Estimated or Reported Exposure	2	0.3%
Total	676	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)	18	48.6%	322	44.6%	121	66.2%
Injection Drug Use (IDU)	3	8.9%	59	8.2%	14	7.4%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	1	2.7%	16	2.2%	6	3.5%
Heterosexual Contact (HET)	15	39.7%	315	43.5%	42	22.9%
Perinatal Transmission	0	0.0%	7	1.0%	0	0.0%
Other Exposure	0	0.0%	1	0.1%	0	0.0%
No Estimated or Reported Exposure	0	0.0%	3	0.4%	0	0.0%
Total	37	100.0%	723	100.0%	183	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	2	26.3%	23	9.1%	7	21.3%
Heterosexual Contact (HET)	6	73.8%	219	88.5%	25	78.8%
Perinatal Transmission	0	0.0%	4	1.6%	0	0.0%
Other Exposure	0	0.0%	1	0.4%	0	0.0%
No Estimated or Reported Exposure	0	0.0%	1	0.4%	0	0.0%
Total	8	100.0%	248	100.0%	32	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MMSC)	18	62.1%	322	67.9%	121	80.3%
Injection Drug Use (IDU)	1	4.1%	36	7.7%	7	4.4%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	1	3.4%	16	3.4%	6	4.2%
Heterosexual Contact (HET)	9	30.3%	95	20.0%	17	11.1%
Perinatal Transmission	0	0.0%	3	0.6%	0	0.0%
Other Exposure	0	0.0%	0	0.0%	0	0.0%
No Estimated or Reported Exposure	0	0.0%	2	0.4%	0	0.0%
Total	29	100.0%	474	100.0%	151	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)	474	366	77.2%	682	7.0%	10.8%	15.4%	66.8%
Injection Drug Use (IDU)	81	62	76.3%	600	5.9%	17.1%	14.5%	62.6%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	25	17	69.4%	464	19.8%	1.2%	30.8%	48.3%
Heterosexual Contact (HET)	393	326	83.0%	683	9.3%	10.0%	14.2%	66.5%
Perinatal Transmission	7	7	100.0%	555	14.3%	28.6%	0.0%	57.1%
Other Exposure	1	***	***	***	***	***	***	***
No Estimated or Reported Exposure	3	***	***	***	***	***	***	***
Total	984	779	79.2%	669	8.3%	10.9%	15.0%	65.7%

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.

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

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)	474	355	74.8%	89.0%	25,101
Injection Drug Use (IDU)	81	53	65.3%	89.5%	4,320
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	25	15	61.7%	83.7%	527,000
Heterosexual Contact (HET)	393	308	78.4%	91.3%	13,677
Perinatal Transmission	7	7	100.0%	71.4%	109,500
Other Exposure	1	***	***	***	***
No Estimated or Reported Exposure	3	***	***	***	***
Total	984	739	75.1%	89.7%	20,551

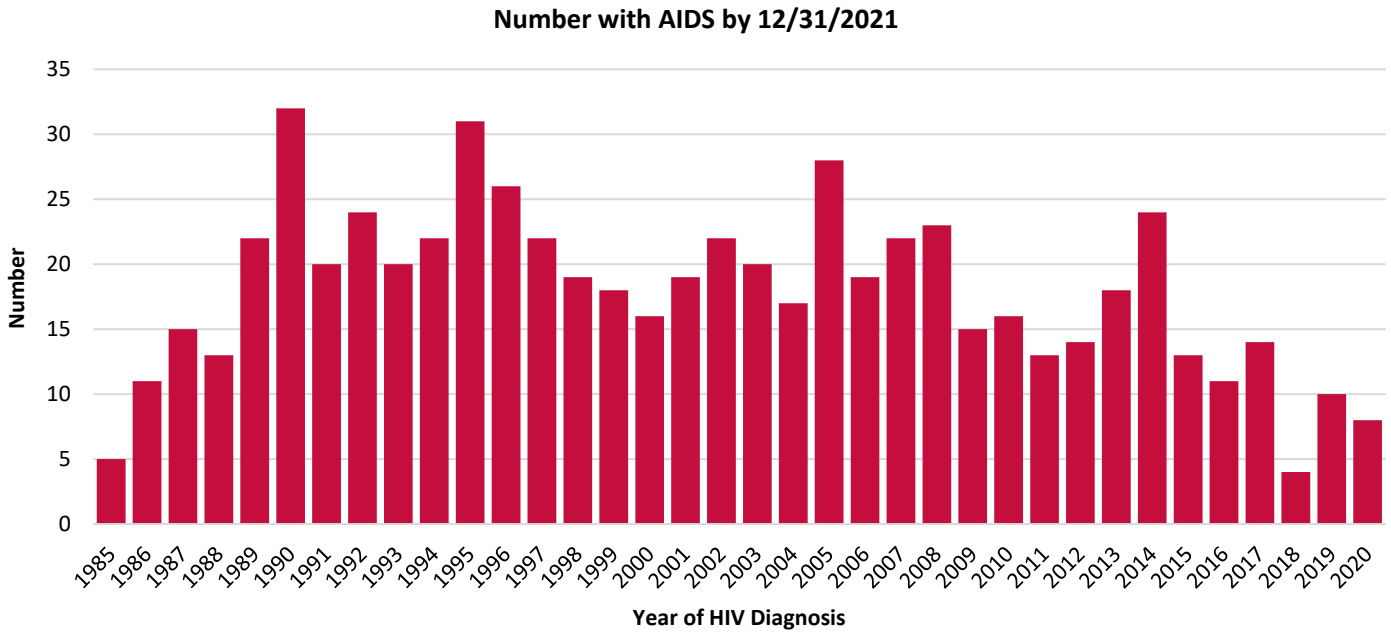
Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

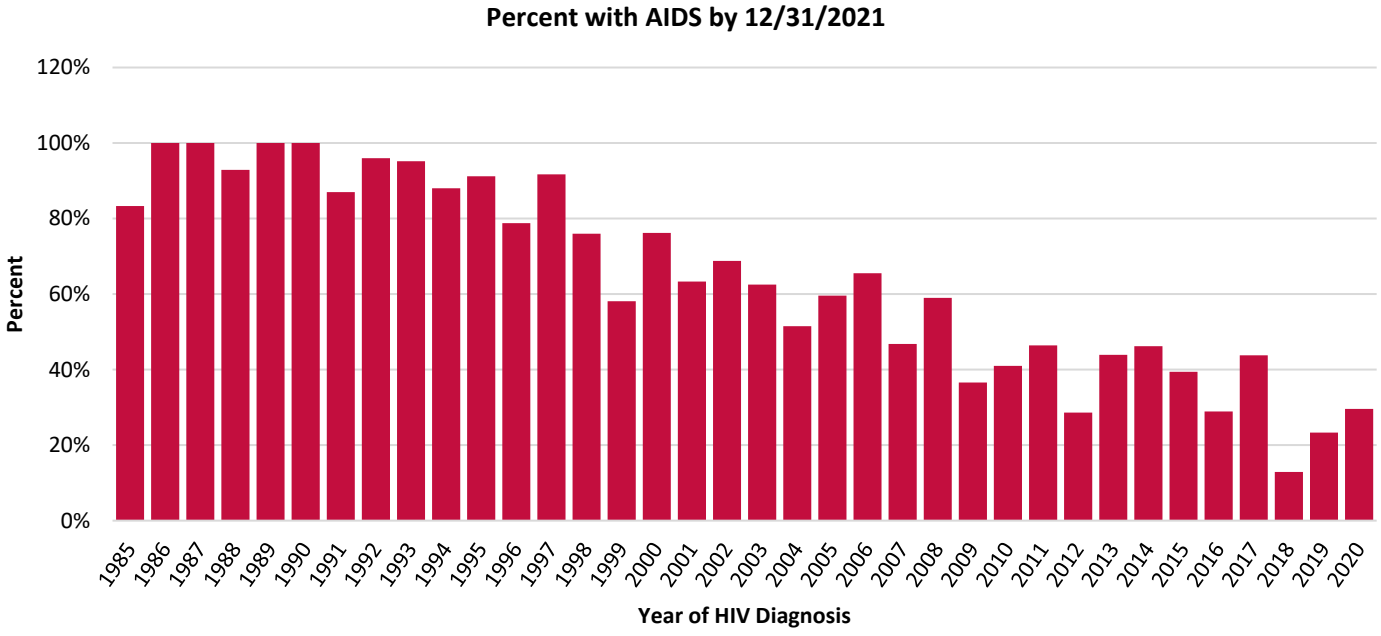
*** Data withheld due to low population counts and/or small numbers.

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

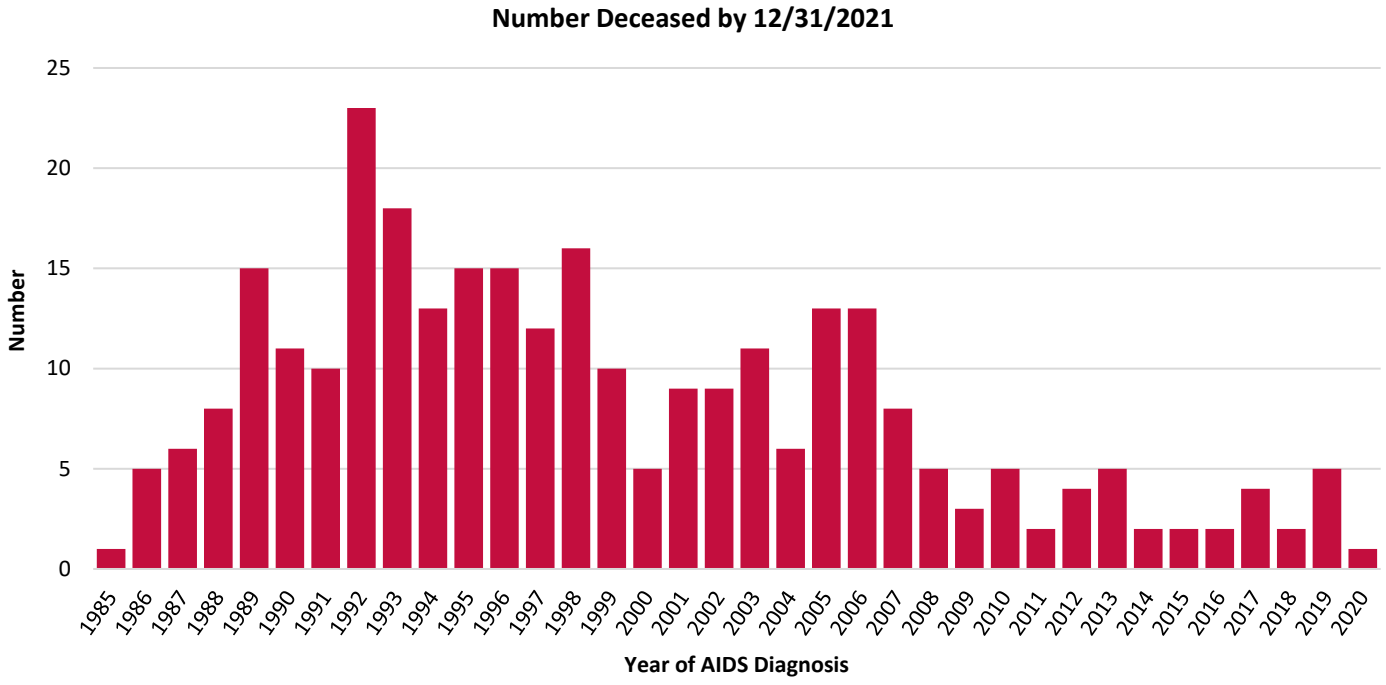


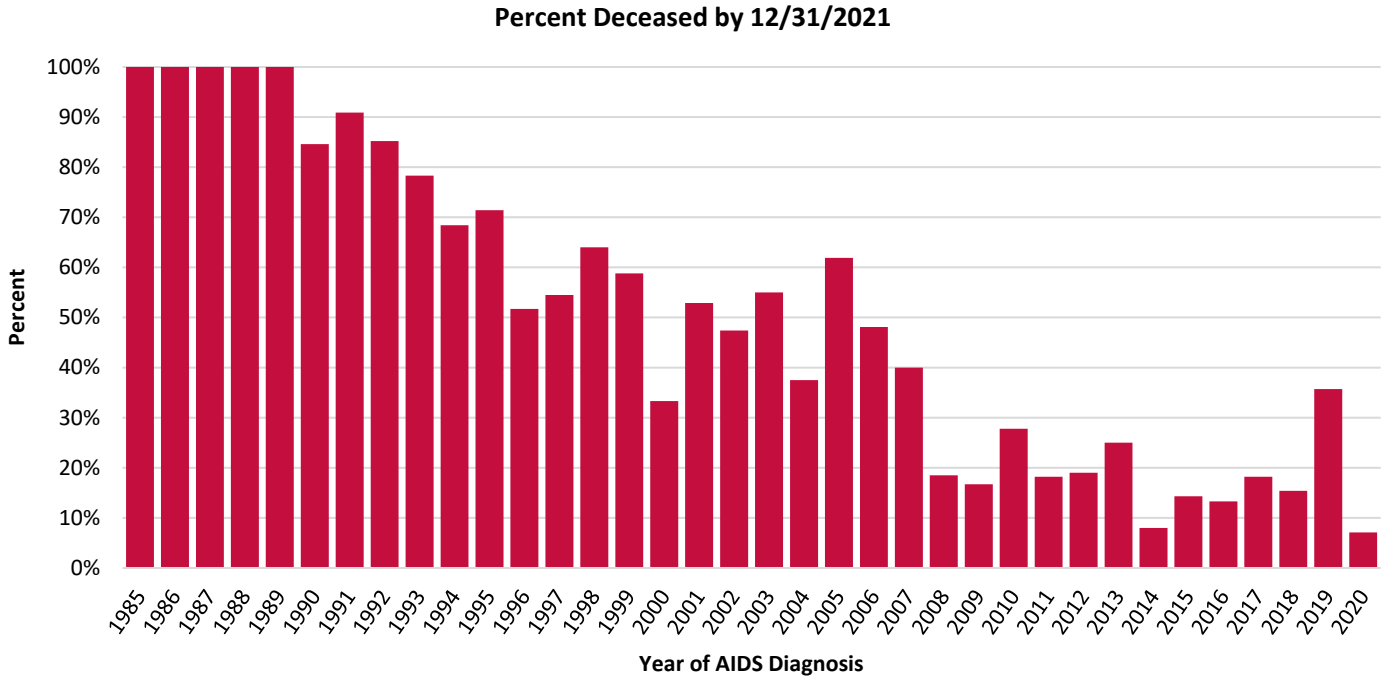


Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	2	2	100.0%	10.0	50.0%	50.0%	50.0%	50.0%
1985	6	5	83.3%	9.8	16.7%	16.7%	33.3%	50.0%
1986	11	11	100.0%	9.2	27.3%	27.3%	36.4%	54.5%
1987	15	15	100.0%	5.7	40.0%	40.0%	60.0%	86.7%
1988	14	13	92.9%	2.7	57.1%	57.1%	71.4%	92.9%
1989	22	22	100.0%	2.6	59.1%	59.1%	81.8%	90.9%
1990	32	32	100.0%	4.7	37.5%	46.9%	65.6%	87.5%
1991	23	20	87.0%	3.6	47.8%	52.2%	60.9%	78.3%
1992	25	24	96.0%	1.5	72.0%	72.0%	88.0%	92.0%
1993	21	20	95.2%	1.2	81.0%	85.7%	90.5%	90.5%
1994	25	22	88.0%	2.6	60.0%	68.0%	68.0%	80.0%
1995	34	31	91.2%	4.0	47.1%	50.0%	64.7%	79.4%
1996	33	26	78.8%	2.5	48.5%	57.6%	66.7%	72.7%
1997	24	22	91.7%	2.6	62.5%	66.7%	70.8%	83.3%
1998	25	19	76.0%	1.2	60.0%	68.0%	68.0%	76.0%
1999	31	18	58.1%	2.3	38.7%	41.9%	48.4%	51.6%
2000	21	16	76.2%	4.6	28.6%	33.3%	57.1%	66.7%
2001	30	19	63.3%	0.4	60.0%	60.0%	63.3%	63.3%
2002	32	22	68.8%	2.7	43.8%	46.9%	56.3%	65.6%
2003	32	20	62.5%	2.8	43.8%	43.8%	50.0%	56.3%
2004	33	17	51.5%	1.5	42.4%	45.5%	45.5%	48.5%
2005	47	28	59.6%	2.7	40.4%	42.6%	46.8%	51.1%
2006	29	19	65.5%	1.0	55.2%	55.2%	58.6%	65.5%
2007	47	22	46.8%	2.3	27.7%	29.8%	38.3%	44.7%
2008	39	23	59.0%	0.9	48.7%	51.3%	53.8%	59.0%
2009	41	15	36.6%	2.7	19.5%	22.0%	26.8%	34.1%
2010	39	16	41.0%	2.1	25.6%	28.2%	35.9%	38.5%
2011	28	13	46.4%	2.7	25.0%	32.1%	32.1%	46.4%
2012	49	14	28.6%	1.0	22.4%	26.5%	26.5%	--
2013	41	18	43.9%	2.0	26.8%	26.8%	39.0%	--
2014	52	24	46.2%	1.4	32.7%	32.7%	42.3%	--
2015	33	13	39.4%	1.5	24.2%	30.3%	36.4%	--
2016	38	11	28.9%	0.8	21.1%	26.3%	28.9%	--
2017	32	14	43.8%	0.9	34.4%	34.4%	--	--
2018	31	4	12.9%	0.2	12.9%	12.9%	--	--
2019	43	10	23.3%	0.3	23.3%	23.3%	--	--
2020	27	8	29.6%	0.2	29.6%	--	--	--
Total	1,107	648	58.5%	2.5	38.4%	41.2%	48.1%	54.5%

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





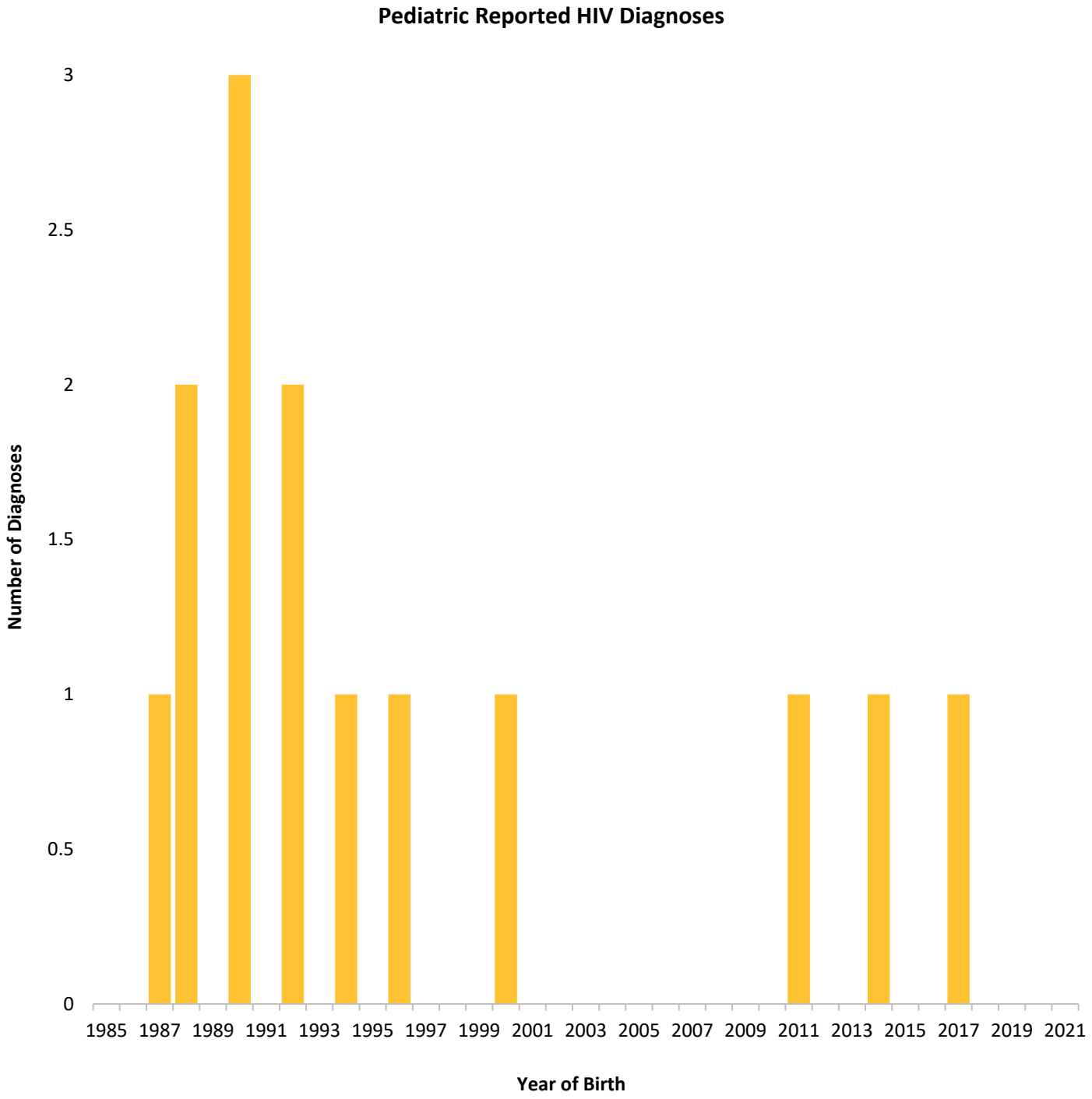
Year of AIDS Diagnosis	Reported AIDS Diagnoses among People Aged 13+							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Deceased	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	1	1	100.0%	0.0	0.0%	0.0%	0.0%	0.0%
1985	1	1	100.0%	2.9	100.0%	100.0%	0.0%	0.0%
1986	5	5	100.0%	1.1	40.0%	20.0%	0.0%	0.0%
1987	6	6	100.0%	2.5	50.0%	16.7%	16.7%	16.7%
1988	8	8	100.0%	2.3	62.5%	50.0%	12.5%	0.0%
1989	15	15	100.0%	2.0	86.7%	46.7%	0.0%	0.0%
1990	13	11	84.6%	3.6	76.9%	61.5%	38.5%	23.1%
1991	11	10	90.9%	2.3	81.8%	54.5%	18.2%	9.1%
1992	27	23	85.2%	3.0	85.2%	59.3%	22.2%	22.2%
1993	23	18	78.3%	4.2	78.3%	52.2%	34.8%	30.4%
1994	19	13	68.4%	3.2	89.5%	52.6%	47.4%	42.1%
1995	21	15	71.4%	4.7	76.2%	57.1%	52.4%	42.9%
1996	29	15	51.7%	4.9	86.2%	79.3%	72.4%	58.6%
1997	22	12	54.5%	9.1	81.8%	81.8%	81.8%	63.6%
1998	25	16	64.0%	8.6	84.0%	84.0%	80.0%	60.0%
1999	17	10	58.8%	6.9	88.2%	88.2%	70.6%	58.8%
2000	15	5	33.3%	11.3	100.0%	100.0%	86.7%	86.7%
2001	17	9	52.9%	6.7	88.2%	82.4%	70.6%	64.7%
2002	19	9	47.4%	3.9	84.2%	78.9%	63.2%	57.9%
2003	20	11	55.0%	5.2	85.0%	80.0%	70.0%	65.0%
2004	16	6	37.5%	3.7	81.3%	75.0%	75.0%	68.8%
2005	21	13	61.9%	5.1	81.0%	76.2%	66.7%	42.9%
2006	27	13	48.1%	3.4	81.5%	81.5%	63.0%	55.6%
2007	20	8	40.0%	6.1	85.0%	85.0%	80.0%	75.0%
2008	27	5	18.5%	3.3	92.6%	92.6%	85.2%	81.5%
2009	18	3	16.7%	4.6	94.4%	94.4%	88.9%	88.9%
2010	18	5	27.8%	3.9	88.9%	83.3%	83.3%	72.2%
2011	11	2	18.2%	2.1	90.9%	90.9%	81.8%	81.8%
2012	21	4	19.0%	6.6	100.0%	100.0%	95.2%	--
2013	20	5	25.0%	2.1	85.0%	80.0%	80.0%	--
2014	25	2	8.0%	3.1	96.0%	96.0%	96.0%	--
2015	14	2	14.3%	1.8	92.9%	92.9%	85.7%	--
2016	15	2	13.3%	1.0	93.3%	86.7%	86.7%	--
2017	22	4	18.2%	2.5	100.0%	90.9%	--	--
2018	13	2	15.4%	1.3	92.3%	92.3%	--	--
2019	14	5	35.7%	0.4	71.4%	64.3%	--	--
2020*	14	1	7.1%	0.0	92.9%	--	--	--
Total	630	295	46.8%	4.4	86.0%	77.8%	67.1%	60.3%

*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	1	0	0	0	--
1985	0	0	0	0	0
1986	0	0	0	0	0
1987	1	1	1	0	0
1988	2	1	1	0	0
1989	0	0	0	0	0
1990	3	2	0	0	2
1991	0	0	1	1	1
1992	2	1	0	0	2
1993	0	0	0	0	2
1994	1	3	3	0	4
1995	0	0	0	1	3
1996	1	1	1	1	4
1997	0	0	0	0	4
1998	0	0	1	0	4
1999	0	0	0	1	3
2000	1	2	0	0	5
2001	0	0	0	0	6
2002	0	0	0	0	6
2003	0	0	0	0	6
2004	0	0	0	0	6
2005	0	0	0	0	6
2006	0	0	0	0	6
2007	0	1	0	0	7
2008	0	0	0	0	7
2009	0	0	0	0	7
2010	0	0	0	1	6
2011	1	1	1	0	7
2012	0	0	0	0	7
2013	0	0	0	1	6
2014	1	1	1	0	7
2015	0	0	0	0	7
2016	0	0	0	0	7
2017	1	1	0	0	8
2018	0	0	0	0	8
2019	0	0	1	0	8
2020	0	0	0	0	8
2021	0	0	0	0	8
Total	15	15	11	6	--

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	100.0%
St. Mary's	0	0.0%
Total	4	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	2	50.0%
Male	2	50.0%
Race/Ethnicity		
Hispanic	0	0.0%
Non-Hispanic	4	100.0%
American Indian/Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	4	100.0%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	0	0.0%
Multiracial/Other	0	0.0%
Total	4	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.