2021

CENTRAL 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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Table of Contents

Section I – Summary of Analyses and Technical Notes **5**

Section II – Trends 1985-2021 ..... **9**

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, among Residents at Diagnosis, 1985-2021, Reported through June 30, 2022 9

Figure 2 – Trends in People Living with Diagnosed HIV, among Residents at Diagnosis, 1985-2021, Reported through June 30, 2022 10

Figure 3 – Trends in People Aged 13+ Living with Diagnosed HIV, among Current Residents, 2012-2021, Reported through June 30, 2022 11

Figure 4 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2021, Reported through June 30, 2022 12

Figure 5 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2021, Reported through June 30, 2022 14

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 16

Figure 7 – Trends in Reported HIV Diagnoses, among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2021, Reported through June 30, 2022 18

Section III – Continuum of Care Cascades **20**

Figure 8 – Prevalence-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Central Region Residents Aged 13+, Reported through June 30, 2022 20

Figure 9 – Diagnosis-Based Estimated 2021 HIV Continuum of Care Cascades, among Current Central Region Residents Aged 13+, Reported through June 30, 2022 21

Section IV – By Jurisdiction **22**

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 22

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 22

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 22

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 23

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 23

Section V – By Age **24**

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 24

Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2021, by Age on December 31, 2021, Reported through June 30, 2022 24

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 24

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 25

Section VI – By Demographics **26**

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 26
Table 11 – Reported HIV Diagnoses, among People Aged 13+ during 2021 by Sex at Birth and Race/Ethnicity, Reported through June 30, 2022 27
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 28
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 29
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 30
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 31
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 32
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 33

Section VII – By HIV Exposure Category 34
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 34
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 35
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 36
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 37
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 37

Section VIII – Disease Progression and Mortality 38
Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2020, Reported through June 30, 2022 38
Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2020, Reported through June 30, 2022 40

Section IX – Pediatrics 42
Figure 12 – Trends in Reported HIV Diagnoses among People Aged <13, 1985-2021, Reported through June 30, 2022 42
Table 23 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2021, by Jurisdiction of Current Residence, Reported through June 30, 2022 44
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 44

Glossary of Terms 45

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 344 reported HIV diagnoses in the Central Region. The Central Region includes Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County, and Howard County. Data presented below describe HIV diagnoses in the Central Region, among people ages 13 years and older, during 2021.

- Geographic distribution: Baltimore City accounted for the highest number (161, 46.8%) of HIV diagnoses and the highest rate (32.8).
- Age: Persons aged 20-39 years accounted for the highest number (210, 61.0%) of HIV diagnoses. The rate was highest among persons aged 20-29 years (29.6).
- Sex at Birth: Males accounted for the highest number (264, 76.7%) of HIV diagnoses. The rate among males was 23.4 and 6.5 among females.
- Race/Ethnicity: Non-Hispanic Black people accounted for the highest number (256, 74.4%) and the highest rate (36.9).
- Exposure Category: Male-to-male sexual contact accounted for the highest number (189, 54.8%) of diagnoses.

People Living with Diagnosed HIV

At the end of 2021, there were 17,189 people living with diagnosed HIV in the Central Region. Data presented below describe people living with diagnosed HIV, aged 13 years and older, the Central Region.

- Geographic distribution: Baltimore City accounted for the highest number (10,471, 60.9%) of people living with diagnosed HIV and the highest rate (2,134.2).
- Age: Persons aged 60+ years accounted for the highest number (4,980, 29.0%) of people living with diagnosed HIV and the highest rate is among those aged 50-59 (1,338.1).
- Sex at Birth: Males accounted for the highest number (11,316, 65.8%) of people living with diagnosed HIV. The rate among males was 1,004.1 and 479.2 among females.
- Race/Ethnicity: Non-Hispanic Black people accounted for the highest number (13,082, 76.1%) of people living with diagnosed HIV. Multiracial people had the highest rate (2,060.9).
- Exposure Category: Male-to-male sexual contact accounted for the highest number (6,320, 36.8%) of the total people living with diagnosed HIV.

Engagement in HIV Care

- HIV diagnosed: Among people living with HIV in the Central Region, it is estimated that 91.1 percent have been diagnosed and an estimated 1,679 people with HIV remain undiagnosed.
- Linked to care: During 2021, 87.8 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, 79.4 percent were retained in care during 2021.
- Viral suppression: In 2021, 66.4 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.

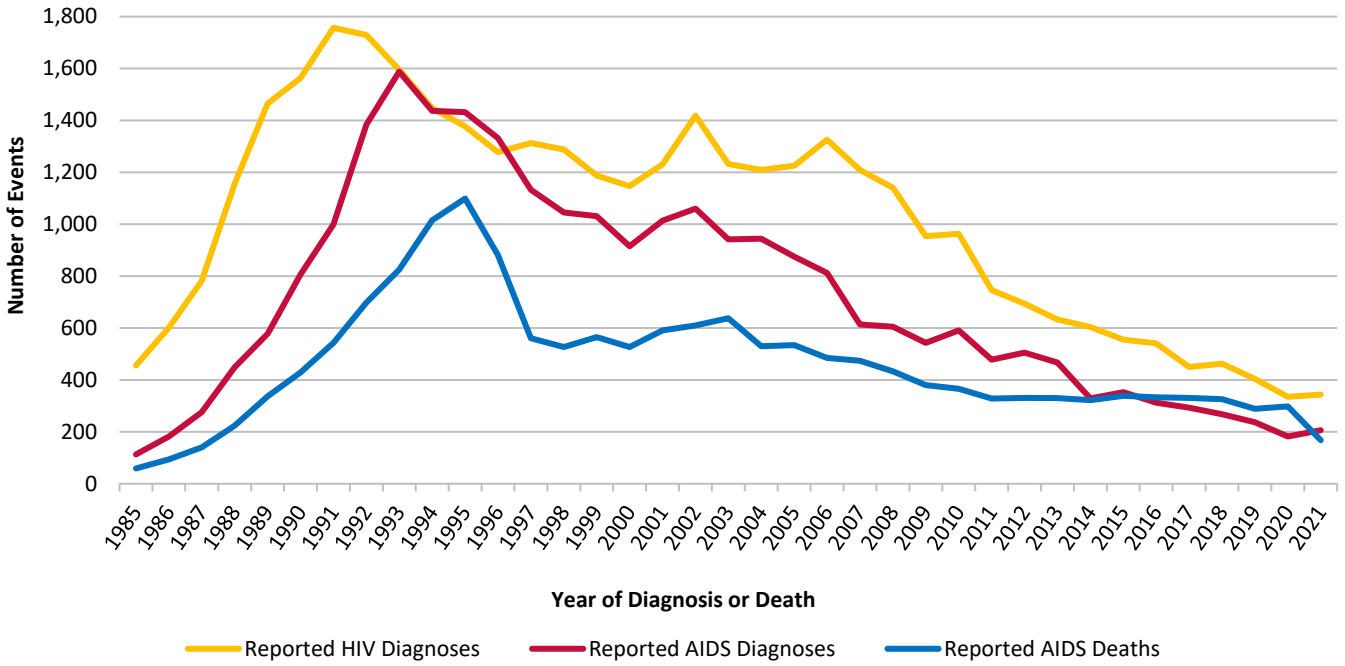
Multiple Imputation

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



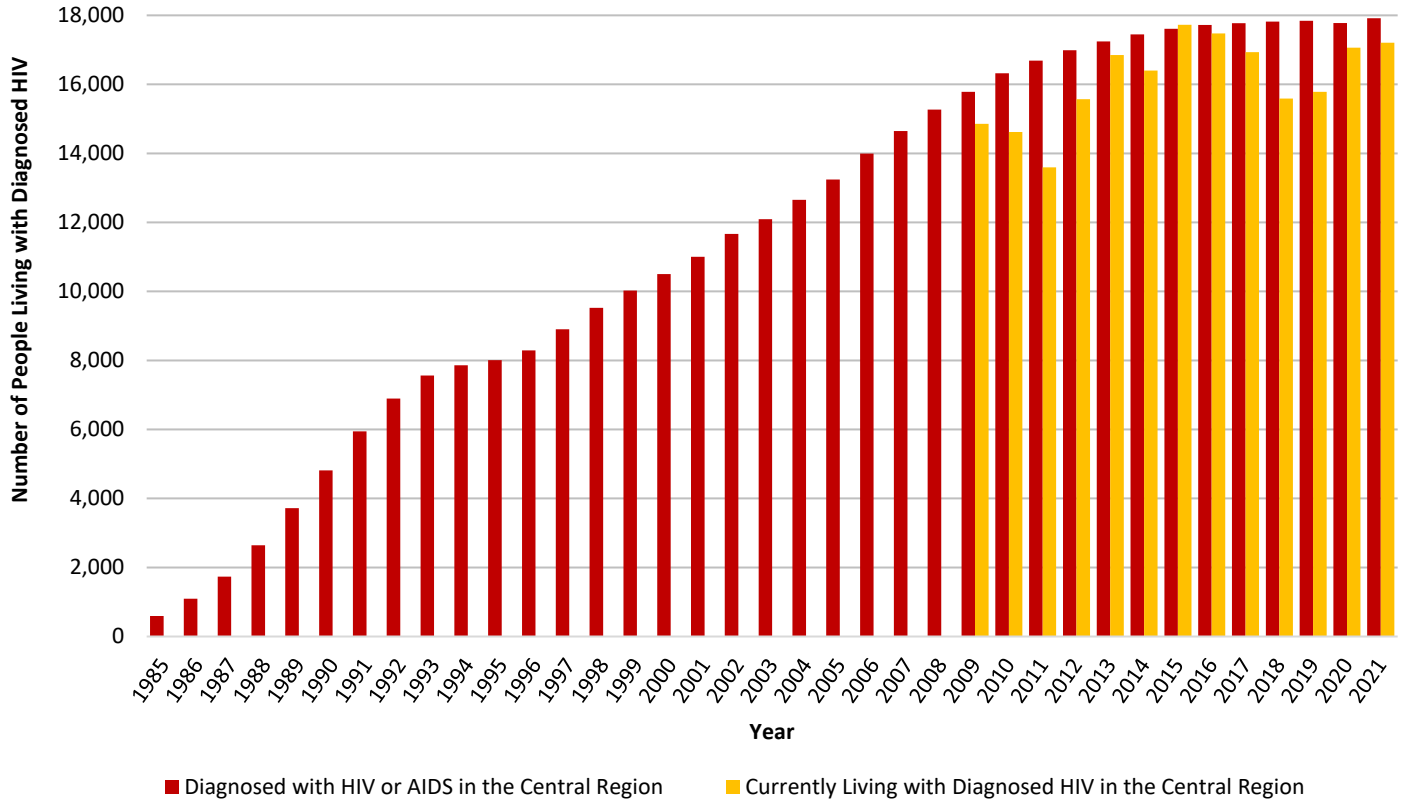
Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	241	78	35	**2003**	1,232	942	638
1985	456	113	59	**2004**	1,209	944	530
1986	602	182	94	**2005**	1,225	875	534
1987	782	276	140	**2006**	1,326	812	485
1988	1,156	449	224	**2007**	1,209	614	474
1989	1,465	578	337	**2008**	1,140	605	433
1990	1,563	806	429	**2009**	954	543	380
1991	1,757	999	543	**2010**	963	591	366
1992	1,729	1,384	698	**2011**	746	478	328
1993	1,595	1,588	825	**2012**	694	505	331
1994	1,447	1,437	1,015	**2013**	633	467	330
1995	1,377	1,432	1,099	**2014**	604	329	322
1996	1,278	1,332	881	**2015**	555	353	339
1997	1,313	1,133	561	**2016**	541	312	333
1998	1,288	1,045	527	**2017**	450	293	331
1999	1,188	1,031	565	**2018**	463	268	326
2000	1,147	915	527	**2019**	404	237	289
2001	1,231	1,014	591	**2020***	335	182	298
2002	1,418	1,060	610	**2021***	344	206	168
				Total	38,060	26,408	16,995

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

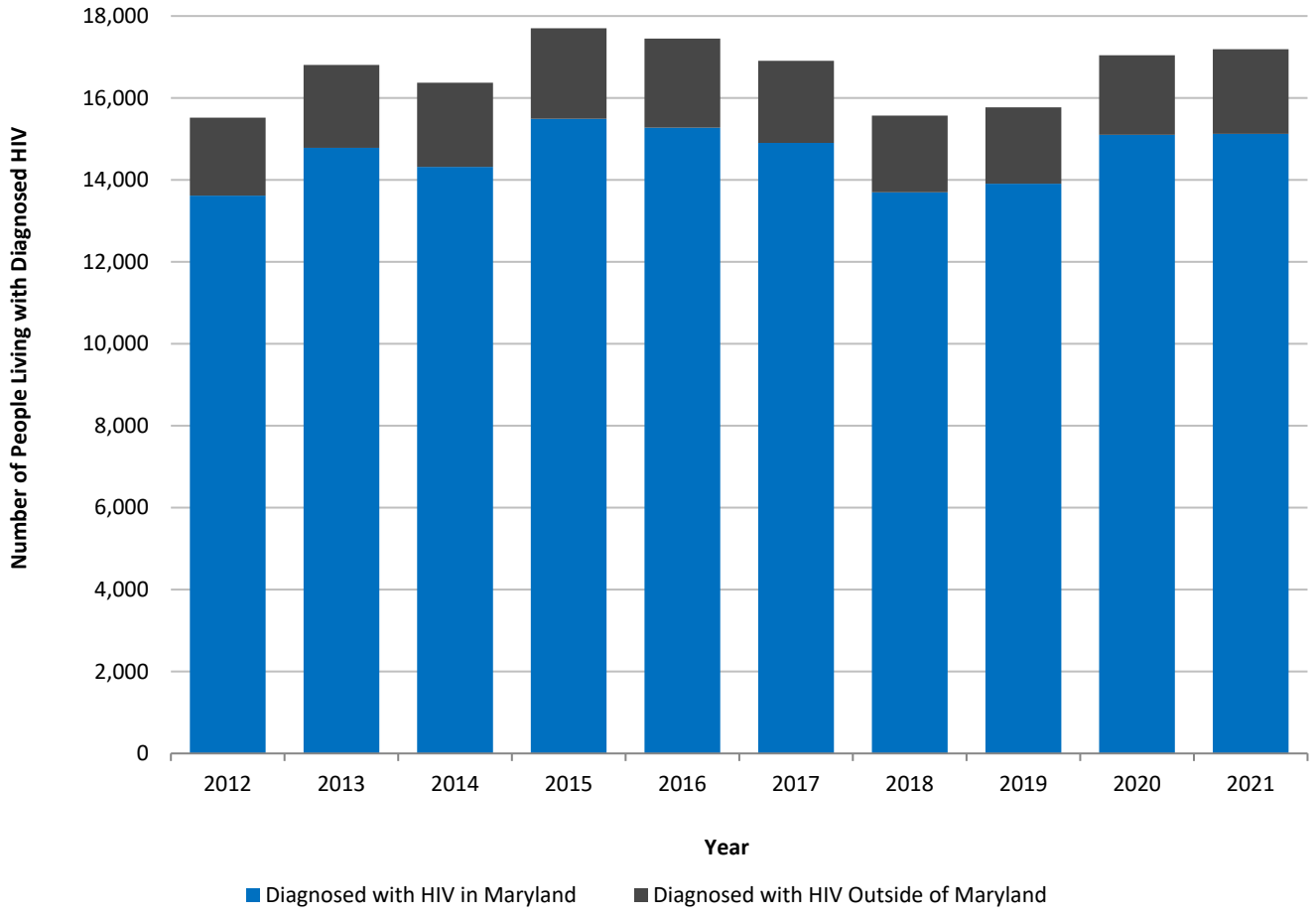


Year	People Living with Diagnosed HIV		Year	People Living with Diagnosed HIV	
	Diagnosed with HIV or AIDS in the Central Region	Current Residents		Diagnosed with HIV or AIDS in the Central Region	Current Residents
1985	596	--	**2003**	12,095	--
1986	1,097	--	**2004**	12,655	--
1987	1,733	--	**2005**	13,242	--
1988	2,645	--	**2006**	13,996	--
1989	3,718	--	**2007**	14,649	--
1990	4,813	--	**2008**	15,270	--
1991	5,947	--	**2009**	15,783	14,857
1992	6,895	--	**2010**	16,322	14,619
1993	7,561	--	**2011**	16,687	13,597
1994	7,861	--	**2012**	16,990	15,571
1995	8,010	--	**2013**	17,243	16,852
1996	8,293	--	**2014**	17,446	16,400
1997	8,904	--	**2015**	17,611	17,727
1998	9,522	--	**2016**	17,721	17,474
1999	10,025	--	**2017**	17,774	16,933
2000	10,503	--	**2018**	17,819	15,587
2001	11,002	--	**2019**	17,840	15,784
2002	11,668	--	**2020**	17,778	17,062
			2021	17,918	17,206

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

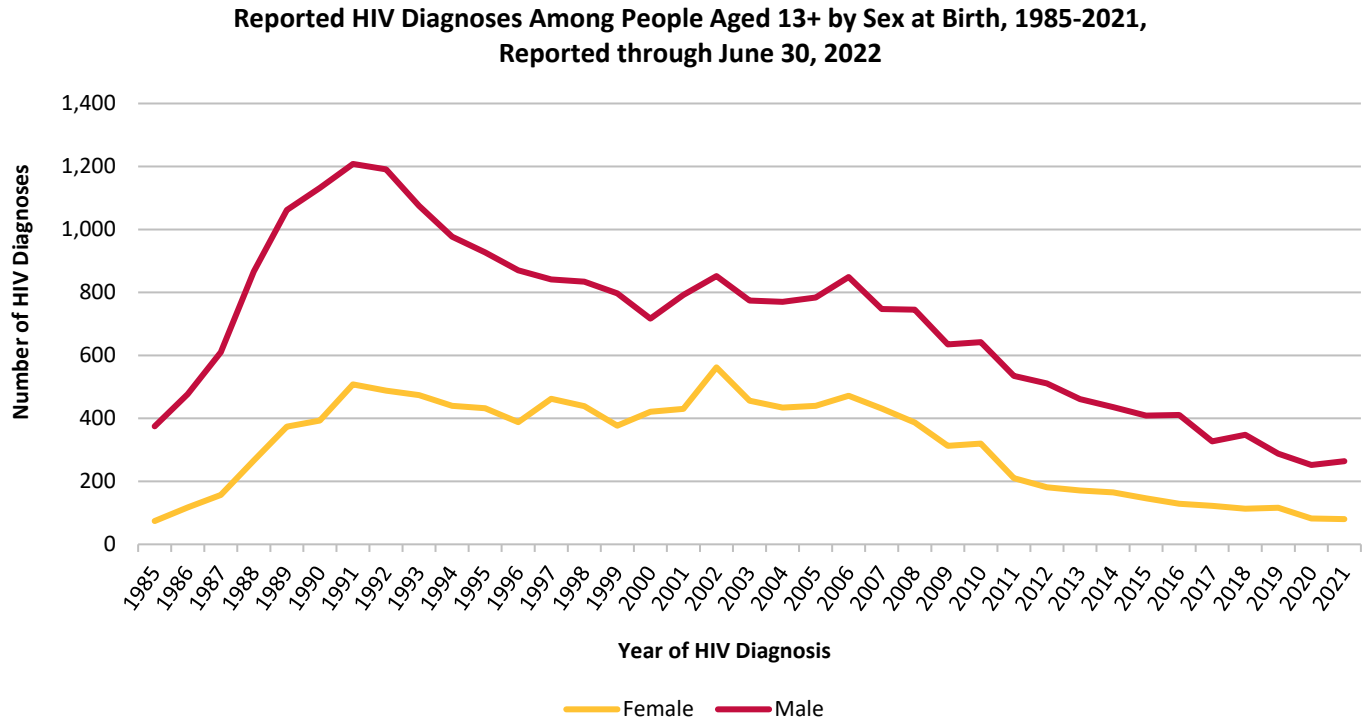


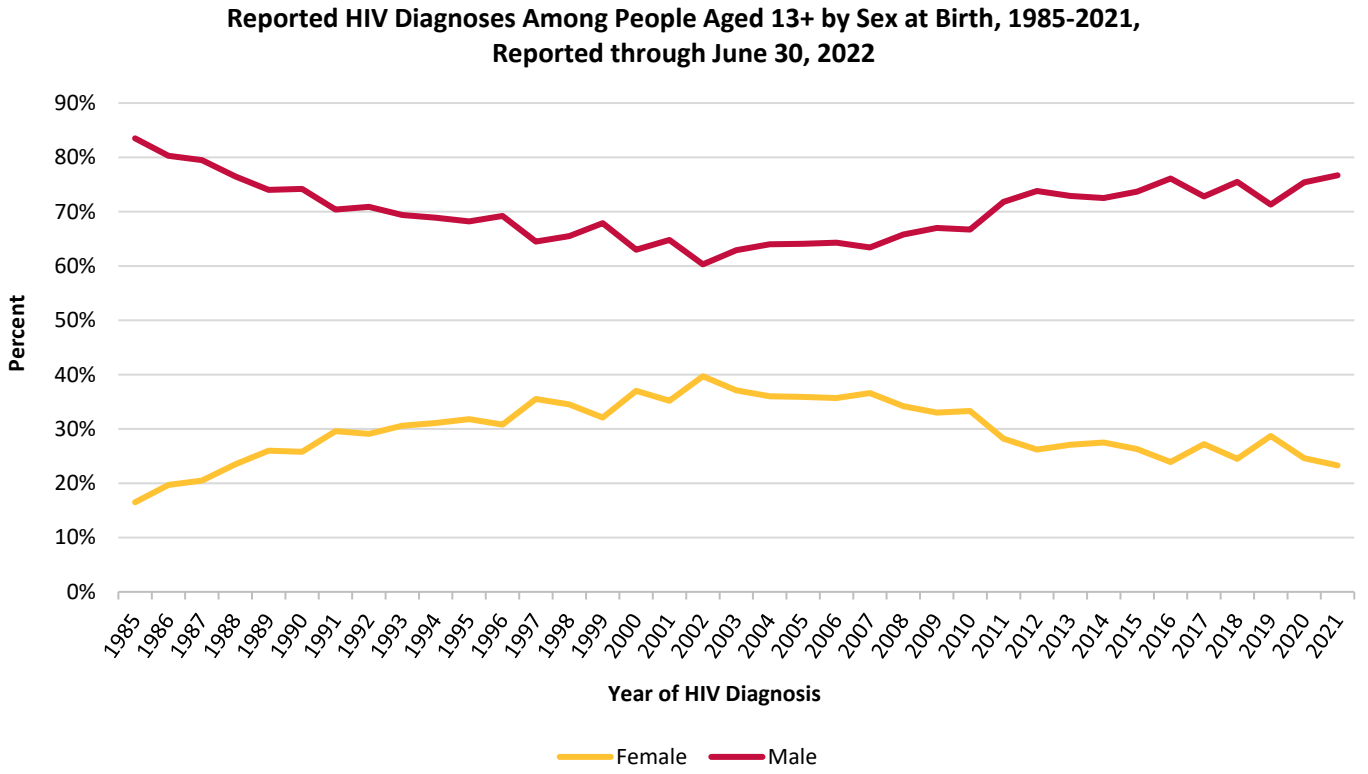
Year	Population Aged 13+	Central Region Residents Aged 13+ as of December 31st of the Specified Year			
		Diagnosed with HIV in Maryland	Diagnosed with HIV Outside of Maryland	Total	Rate
2012	2,270,519	13,616	1,904	15,520	683.5
2013	2,284,012	14,783	2,024	16,807	735.9
2014	2,295,862	14,317	2,053	16,370	713
2015	2,306,019	15,490	2,212	17,702	767.6
2016	2,310,712	15,276	2,174	17,450	755.2
2017	2,315,581	14,904	2,003	16,907	730.1
2018	2,318,969	13,696	1,873	15,569	671.4
2019	2,320,686	13,907	1,864	15,771	679.6
2020	2,318,416	15,099	1,943	17,042	735.1
2021	2,352,434	15,125	2,064	17,189	730.7

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



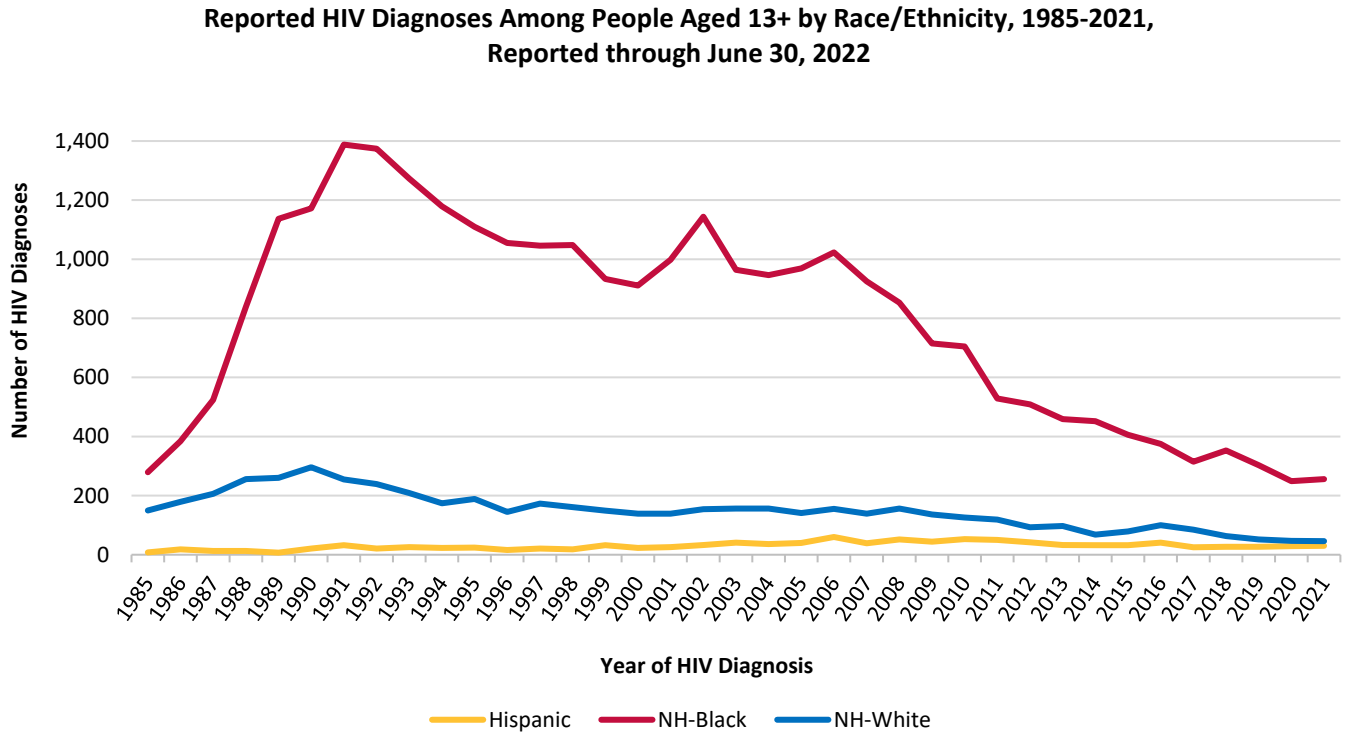


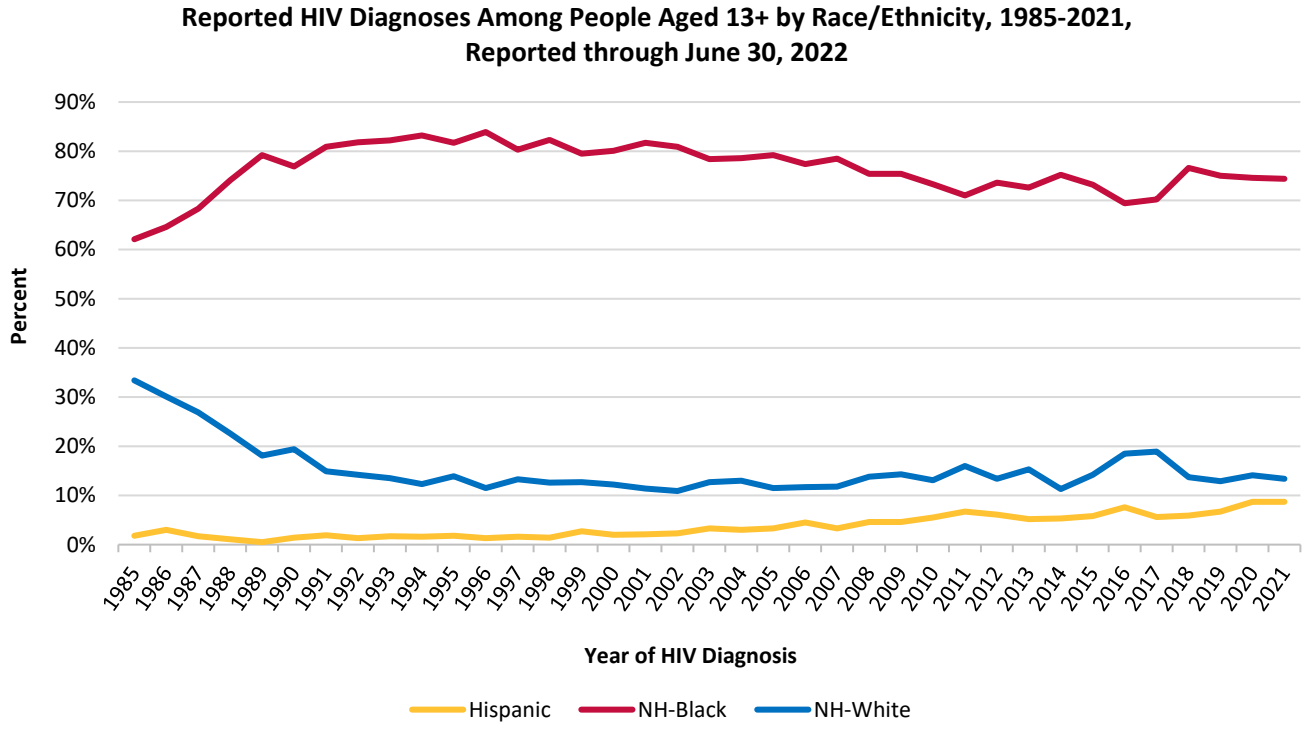
Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+				
	Number	Sex at Birth			
		Female		Male	
		Number	Percent	Number	Percent
<1985	239	31	13.0%	208	87.0%
1985	449	74	16.5%	375	83.5%
1986	594	117	19.7%	477	80.3%
1987	767	157	20.5%	610	79.5%
1988	1,132	266	23.5%	866	76.5%
1989	1,436	374	26.0%	1,062	74.0%
1990	1,525	393	25.8%	1,132	74.2%
1991	1,716	508	29.6%	1,208	70.4%
1992	1,679	488	29.1%	1,191	70.9%
1993	1,549	474	30.6%	1,075	69.4%
1994	1,417	440	31.1%	977	68.9%
1995	1,359	432	31.8%	927	68.2%
1996	1,258	388	30.8%	870	69.2%
1997	1,303	462	35.5%	841	64.5%
1998	1,273	439	34.5%	834	65.5%
1999	1,174	377	32.1%	797	67.9%
2000	1,138	421	37.0%	717	63.0%
2001	1,222	430	35.2%	792	64.8%
2002	1,414	562	39.7%	852	60.3%
2003	1,230	456	37.1%	774	62.9%
2004	1,204	434	36.0%	770	64.0%
2005	1,224	440	35.9%	784	64.1%
2006	1,321	472	35.7%	849	64.3%
2007	1,178	431	36.6%	747	63.4%
2008	1,132	387	34.2%	745	65.8%
2009	948	313	33.0%	635	67.0%
2010	962	320	33.3%	642	66.7%
2011	745	210	28.2%	535	71.8%
2012	692	181	26.2%	511	73.8%
2013	632	171	27.1%	461	72.9%
2014	601	165	27.5%	436	72.5%
2015	555	146	26.3%	409	73.7%
2016	540	129	23.9%	411	76.1%
2017	449	122	27.2%	327	72.8%
2018	461	113	24.5%	348	75.5%
2019	404	116	28.7%	288	71.3%
2020	334	82	24.6%	252	75.4%
2021	344	80	23.3%	264	76.7%
Total	37,600	11,601	30.9%	25,999	69.1%

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 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





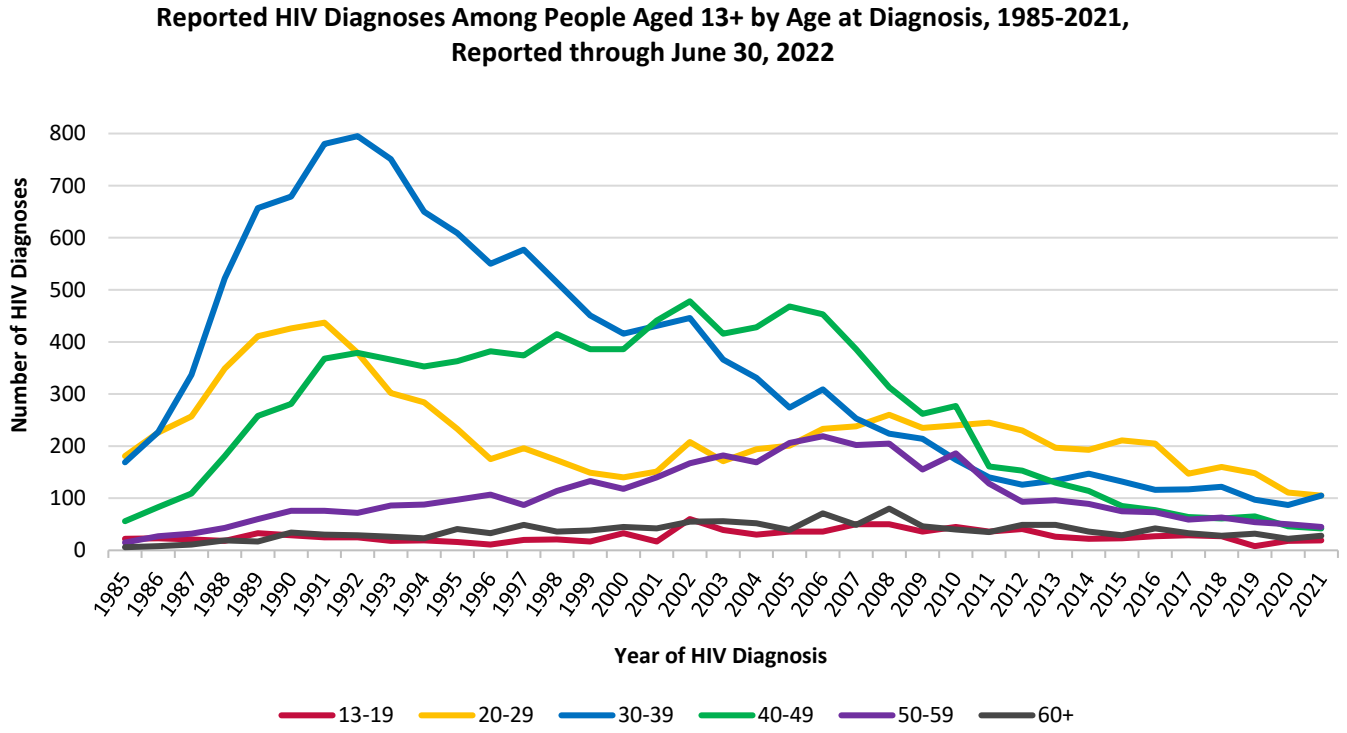
NH: Non-Hispanic
NH-Asian, NH-American Indian, NH-Native Hawaiian/Other Pacific Islander, NH-Multiracial/Other not shown

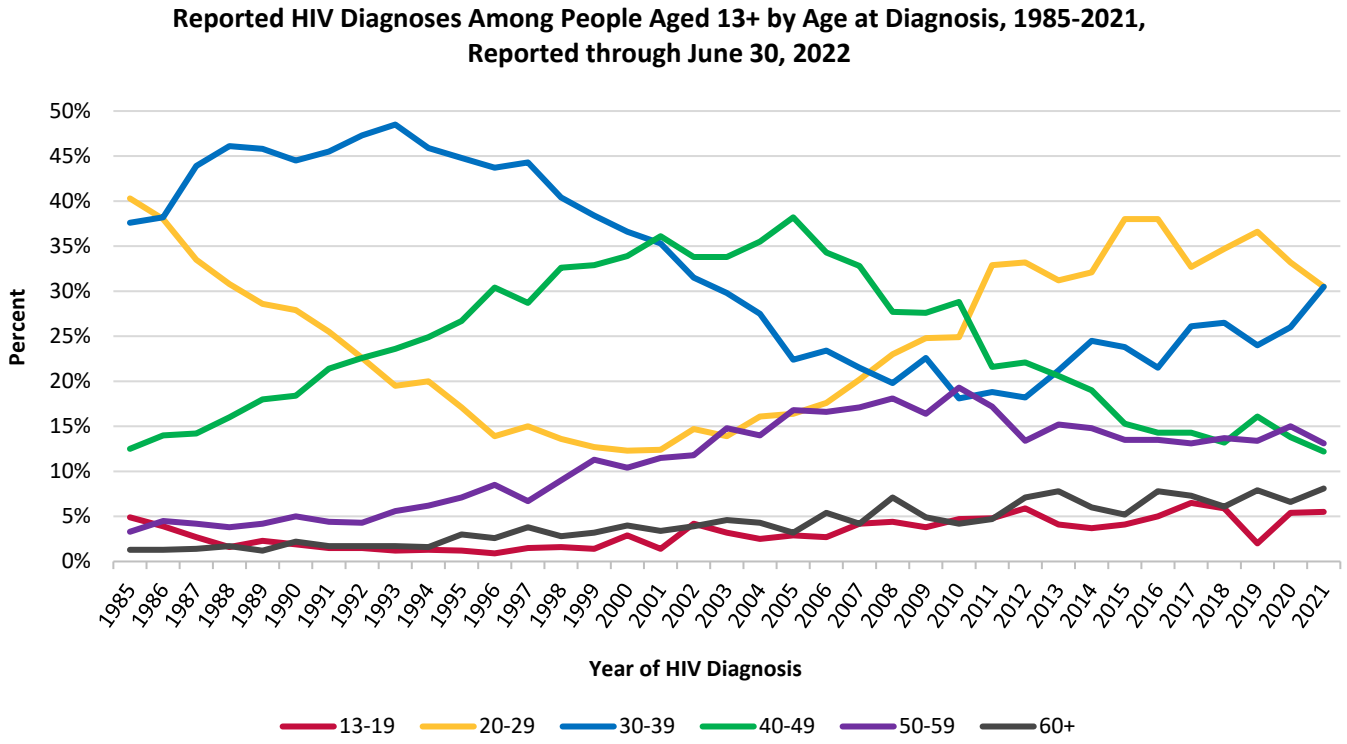
Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+								
		Race/Ethnicity							
	No.	Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	239	7	2.9%	131	54.8%	94	39.3%	7	2.9%
1985	449	8	1.8%	279	62.1%	150	33.4%	12	2.7%
1986	594	18	3.0%	384	64.6%	179	30.1%	13	2.2%
1987	767	13	1.7%	524	68.3%	206	26.9%	24	3.1%
1988	1,132	13	1.1%	839	74.1%	256	22.6%	24	2.1%
1989	1,436	7	0.5%	1,137	79.2%	260	18.1%	32	2.2%
1990	1,525	21	1.4%	1,172	76.9%	296	19.4%	36	2.4%
1991	1,716	32	1.9%	1,388	80.9%	255	14.9%	41	2.4%
1992	1,679	21	1.3%	1,374	81.8%	239	14.2%	45	2.7%
1993	1,549	26	1.7%	1,273	82.2%	209	13.5%	41	2.6%
1994	1,417	23	1.6%	1,179	83.2%	174	12.3%	41	2.9%
1995	1,359	24	1.8%	1,110	81.7%	189	13.9%	36	2.6%
1996	1,258	16	1.3%	1,055	83.9%	145	11.5%	42	3.3%
1997	1,303	21	1.6%	1,046	80.3%	173	13.3%	63	4.8%
1998	1,273	18	1.4%	1,048	82.3%	161	12.6%	46	3.6%
1999	1,174	32	2.7%	933	79.5%	149	12.7%	60	5.1%
2000	1,138	23	2.0%	911	80.1%	139	12.2%	65	5.7%
2001	1,222	26	2.1%	998	81.7%	139	11.4%	59	4.8%
2002	1,414	33	2.3%	1,144	80.9%	154	10.9%	83	5.9%
2003	1,230	41	3.3%	964	78.4%	156	12.7%	69	5.6%
2004	1,204	36	3.0%	946	78.6%	156	13.0%	66	5.5%
2005	1,224	40	3.3%	969	79.2%	141	11.5%	74	6.0%
2006	1,321	60	4.5%	1,023	77.4%	155	11.7%	83	6.3%
2007	1,178	39	3.3%	925	78.5%	139	11.8%	75	6.4%
2008	1,132	52	4.6%	853	75.4%	156	13.8%	71	6.3%
2009	948	44	4.6%	715	75.4%	136	14.3%	53	5.6%
2010	962	53	5.5%	705	73.3%	126	13.1%	78	8.1%
2011	745	50	6.7%	529	71.0%	119	16.0%	47	6.3%
2012	692	42	6.1%	509	73.6%	93	13.4%	48	6.9%
2013	632	33	5.2%	459	72.6%	97	15.3%	43	6.8%
2014	601	32	5.3%	452	75.2%	68	11.3%	49	8.2%
2015	555	32	5.8%	406	73.2%	79	14.2%	38	6.8%
2016	540	41	7.6%	375	69.4%	100	18.5%	24	4.4%
2017	449	25	5.6%	315	70.2%	85	18.9%	24	5.3%
2018	461	27	5.9%	353	76.6%	63	13.7%	18	3.9%
2019	404	27	6.7%	303	75.0%	52	12.9%	22	5.4%
2020	334	29	8.7%	249	74.6%	47	14.1%	9	2.7%
2021	344	30	8.7%	256	74.4%	46	13.4%	12	3.5%
Total	37,600	1,115	3.0%	29,231	77.7%	5,581	14.8%	1,673	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.

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



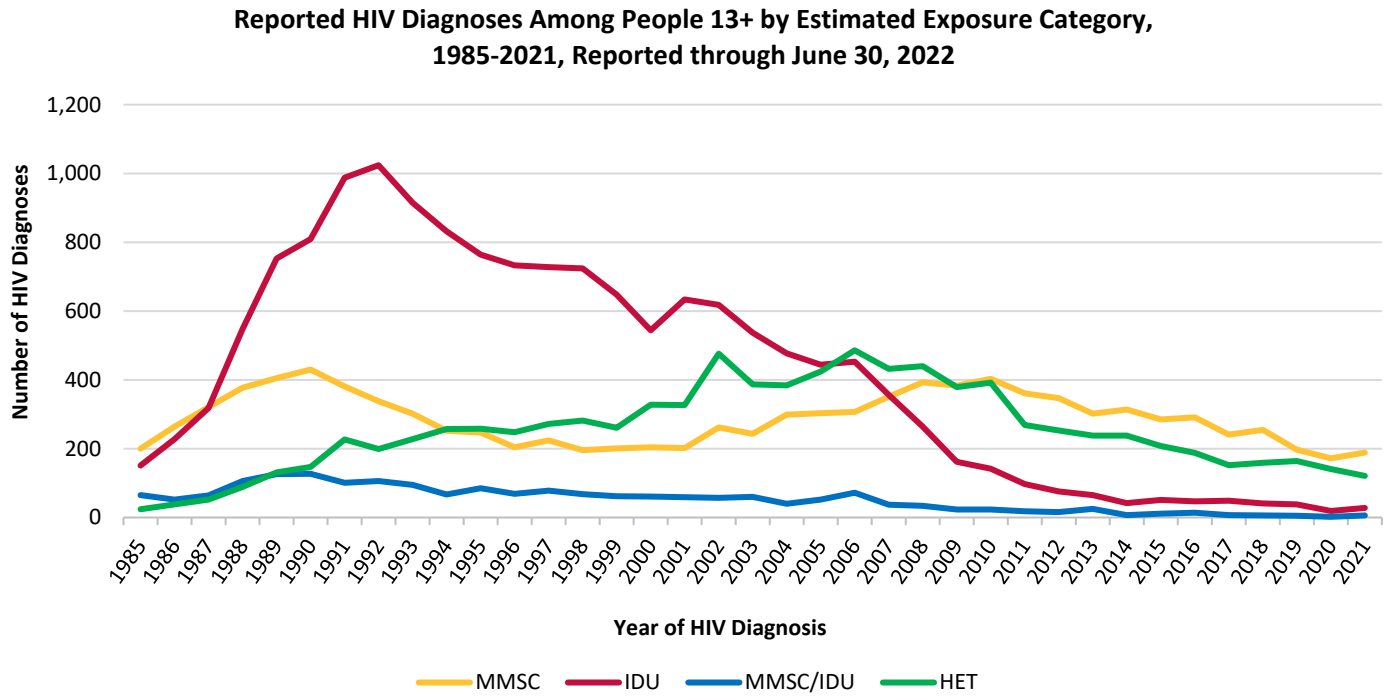


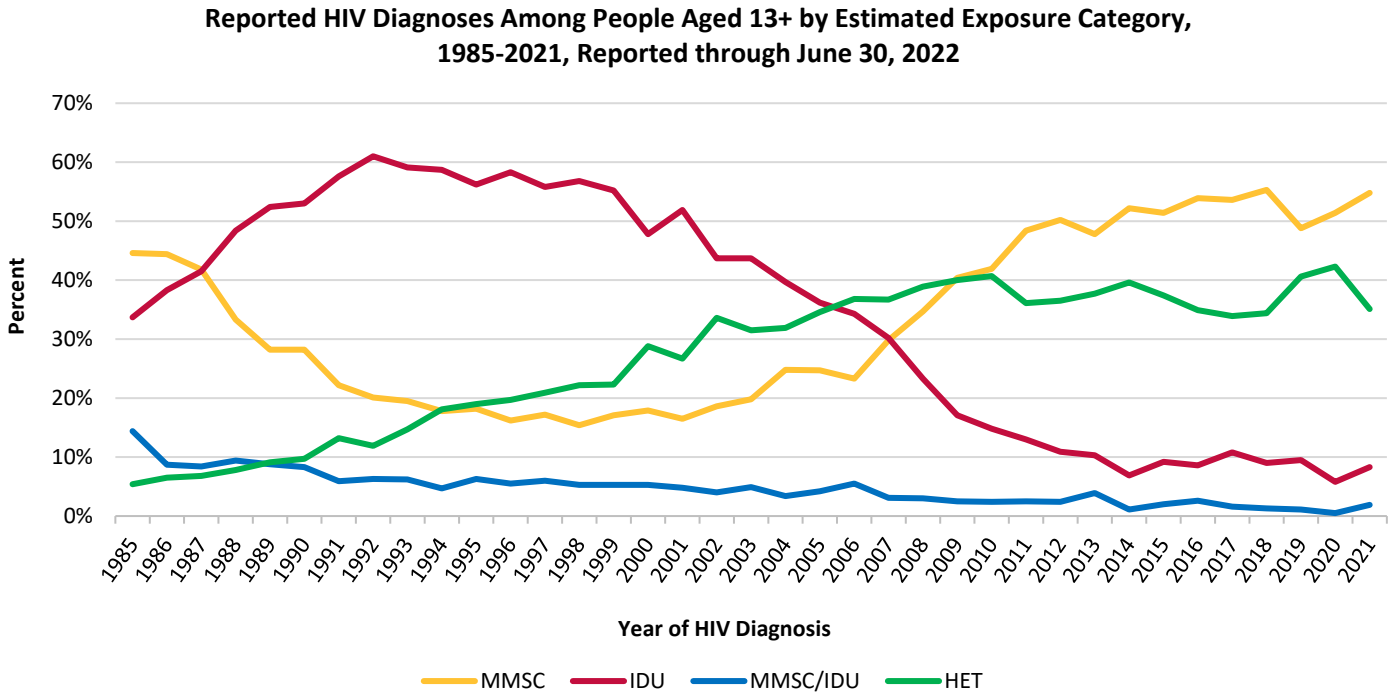
Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+												
		Age at HIV Diagnosis											
	No.	13-19		20-29		30-39		40-49		50-59		60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	239	18	7.5%	103	43.1%	71	29.7%	32	13.4%	14	5.9%	1	0.4%
1985	449	22	4.9%	181	40.3%	169	37.6%	56	12.5%	15	3.3%	6	1.3%
1986	594	23	3.9%	226	38.0%	227	38.2%	83	14.0%	27	4.5%	8	1.3%
1987	767	21	2.7%	257	33.5%	337	43.9%	109	14.2%	32	4.2%	11	1.4%
1988	1,132	18	1.6%	349	30.8%	522	46.1%	181	16.0%	43	3.8%	19	1.7%
1989	1,436	33	2.3%	411	28.6%	657	45.8%	258	18.0%	60	4.2%	17	1.2%
1990	1,525	29	1.9%	426	27.9%	679	44.5%	281	18.4%	76	5.0%	34	2.2%
1991	1,716	25	1.5%	437	25.5%	780	45.5%	368	21.4%	76	4.4%	30	1.7%
1992	1,679	25	1.5%	379	22.6%	795	47.3%	379	22.6%	72	4.3%	29	1.7%
1993	1,549	18	1.2%	302	19.5%	751	48.5%	366	23.6%	86	5.6%	26	1.7%
1994	1,417	19	1.3%	284	20.0%	650	45.9%	353	24.9%	88	6.2%	23	1.6%
1995	1,359	16	1.2%	233	17.1%	609	44.8%	363	26.7%	97	7.1%	41	3.0%
1996	1,258	11	0.9%	175	13.9%	550	43.7%	382	30.4%	107	8.5%	33	2.6%
1997	1,303	20	1.5%	196	15.0%	577	44.3%	374	28.7%	87	6.7%	49	3.8%
1998	1,273	21	1.6%	173	13.6%	514	40.4%	415	32.6%	114	9.0%	36	2.8%
1999	1,174	17	1.4%	149	12.7%	451	38.4%	386	32.9%	133	11.3%	38	3.2%
2000	1,138	33	2.9%	140	12.3%	416	36.6%	386	33.9%	118	10.4%	45	4.0%
2001	1,222	17	1.4%	151	12.4%	431	35.3%	441	36.1%	140	11.5%	42	3.4%
2002	1,414	60	4.2%	208	14.7%	446	31.5%	478	33.8%	167	11.8%	55	3.9%
2003	1,230	39	3.2%	171	13.9%	366	29.8%	416	33.8%	182	14.8%	56	4.6%
2004	1,204	30	2.5%	194	16.1%	331	27.5%	428	35.5%	169	14.0%	52	4.3%
2005	1,224	36	2.9%	201	16.4%	274	22.4%	468	38.2%	206	16.8%	39	3.2%
2006	1,321	36	2.7%	233	17.6%	309	23.4%	453	34.3%	219	16.6%	71	5.4%
2007	1,178	50	4.2%	238	20.2%	253	21.5%	386	32.8%	202	17.1%	49	4.2%
2008	1,132	50	4.4%	260	23.0%	224	19.8%	313	27.7%	205	18.1%	80	7.1%
2009	948	36	3.8%	235	24.8%	214	22.6%	262	27.6%	155	16.4%	46	4.9%
2010	962	45	4.7%	240	24.9%	174	18.1%	277	28.8%	186	19.3%	40	4.2%
2011	745	36	4.8%	245	32.9%	140	18.8%	161	21.6%	128	17.2%	35	4.7%
2012	692	41	5.9%	230	33.2%	126	18.2%	153	22.1%	93	13.4%	49	7.1%
2013	632	26	4.1%	197	31.2%	134	21.2%	130	20.6%	96	15.2%	49	7.8%
2014	601	22	3.7%	193	32.1%	147	24.5%	114	19.0%	89	14.8%	36	6.0%
2015	555	23	4.1%	211	38.0%	132	23.8%	85	15.3%	75	13.5%	29	5.2%
2016	540	27	5.0%	205	38.0%	116	21.5%	77	14.3%	73	13.5%	42	7.8%
2017	449	29	6.5%	147	32.7%	117	26.1%	64	14.3%	59	13.1%	33	7.3%
2018	461	27	5.9%	160	34.7%	122	26.5%	61	13.2%	63	13.7%	28	6.1%
2019	404	8	2.0%	148	36.6%	97	24.0%	65	16.1%	54	13.4%	32	7.9%
2020	334	18	5.4%	111	33.2%	87	26.0%	46	13.8%	50	15.0%	22	6.6%
2021	344	19	5.5%	105	30.5%	105	30.5%	42	12.2%	45	13.1%	28	8.1%
Total	37,600	1,044	2.8%	8,504	22.6%	13,100	34.8%	9,692	25.8%	3,901	10.4%	1,359	3.6%

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 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	239	2.5%	133	55.5%	63	26.2%	27	11.2%	8	3.4%	9	3.8%
1985	449	4.2%	200	44.6%	151	33.7%	65	14.4%	24	5.4%	9	2.0%
1986	594	2.9%	264	44.4%	228	38.3%	52	8.7%	38	6.5%	13	2.2%
1987	767	2.7%	321	41.8%	318	41.5%	64	8.4%	52	6.8%	12	1.6%
1988	1,132	2.8%	377	33.3%	548	48.4%	106	9.4%	89	7.8%	13	1.1%
1989	1,436	2.4%	405	28.2%	753	52.4%	126	8.8%	131	9.1%	22	1.5%
1990	1,525	3.9%	430	28.2%	809	53.0%	127	8.3%	147	9.7%	12	0.8%
1991	1,716	3.7%	381	22.2%	988	57.6%	101	5.9%	227	13.2%	19	1.1%
1992	1,679	4.5%	338	20.1%	1,024	61.0%	106	6.3%	199	11.9%	12	0.7%
1993	1,549	2.7%	302	19.5%	915	59.1%	95	6.2%	228	14.7%	9	0.6%
1994	1,417	3.7%	252	17.8%	832	58.7%	67	4.7%	257	18.1%	9	0.6%
1995	1,359	4.2%	247	18.2%	764	56.2%	85	6.3%	258	19.0%	4	0.3%
1996	1,258	4.1%	204	16.2%	733	58.3%	69	5.5%	248	19.7%	5	0.4%
1997	1,303	6.0%	224	17.2%	728	55.8%	78	6.0%	272	20.9%	1	0.1%
1998	1,273	5.1%	196	15.4%	724	56.8%	68	5.3%	282	22.2%	4	0.3%
1999	1,174	6.8%	201	17.1%	648	55.2%	62	5.3%	261	22.3%	2	0.2%
2000	1,138	6.8%	204	17.9%	544	47.8%	61	5.3%	328	28.8%	2	0.2%
2001	1,222	7.6%	202	16.5%	634	51.9%	59	4.8%	327	26.7%	1	0.1%
2002	1,414	10.1%	262	18.6%	618	43.7%	57	4.0%	476	33.6%	1	0.1%
2003	1,230	9.2%	243	19.8%	537	43.7%	60	4.9%	387	31.5%	3	0.2%
2004	1,204	9.9%	299	24.8%	477	39.7%	40	3.4%	384	31.9%	3	0.2%
2005	1,224	14.4%	303	24.7%	444	36.2%	52	4.2%	424	34.6%	2	0.2%
2006	1,321	18.7%	307	23.3%	453	34.3%	72	5.5%	486	36.8%	3	0.2%
2007	1,178	19.3%	351	29.8%	356	30.2%	37	3.1%	432	36.7%	2	0.2%
2008	1,132	25.9%	393	34.7%	264	23.3%	34	3.0%	440	38.9%	1	0.1%
2009	948	26.8%	383	40.4%	162	17.1%	23	2.5%	379	40.0%	0	0.0%
2010	962	29.9%	403	41.9%	142	14.8%	23	2.4%	392	40.7%	2	0.2%
2011	745	25.4%	361	48.4%	97	13.0%	18	2.5%	269	36.1%	0	0.0%
2012	692	17.3%	347	50.2%	76	10.9%	16	2.4%	253	36.5%	0	0.0%
2013	632	10.6%	302	47.8%	65	10.3%	25	3.9%	238	37.7%	2	0.3%
2014	601	8.7%	314	52.2%	42	6.9%	7	1.1%	238	39.6%	1	0.2%
2015	555	5.0%	285	51.4%	51	9.2%	11	2.0%	208	37.4%	0	0.0%
2016	540	12.6%	291	53.9%	47	8.6%	14	2.6%	188	34.9%	0	0.0%
2017	449	10.2%	241	53.6%	49	10.8%	7	1.6%	152	33.9%	0	0.0%
2018	461	12.6%	255	55.3%	41	9.0%	6	1.3%	159	34.4%	0	0.0%
2019	404	10.4%	197	48.8%	38	9.5%	5	1.1%	164	40.6%	0	0.0%
2020	334	9.9%	172	51.4%	19	5.8%	2	0.5%	141	42.3%	0	0.0%
2021	344	33.7%	189	54.8%	28	8.3%	6	1.9%	121	35.1%	0	0.0%
Total	37,600	9.6%	10,779	28.7%	15,410	41.0%	1,933	5.1%	9,307	24.8%	178	0.5%

§ 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.

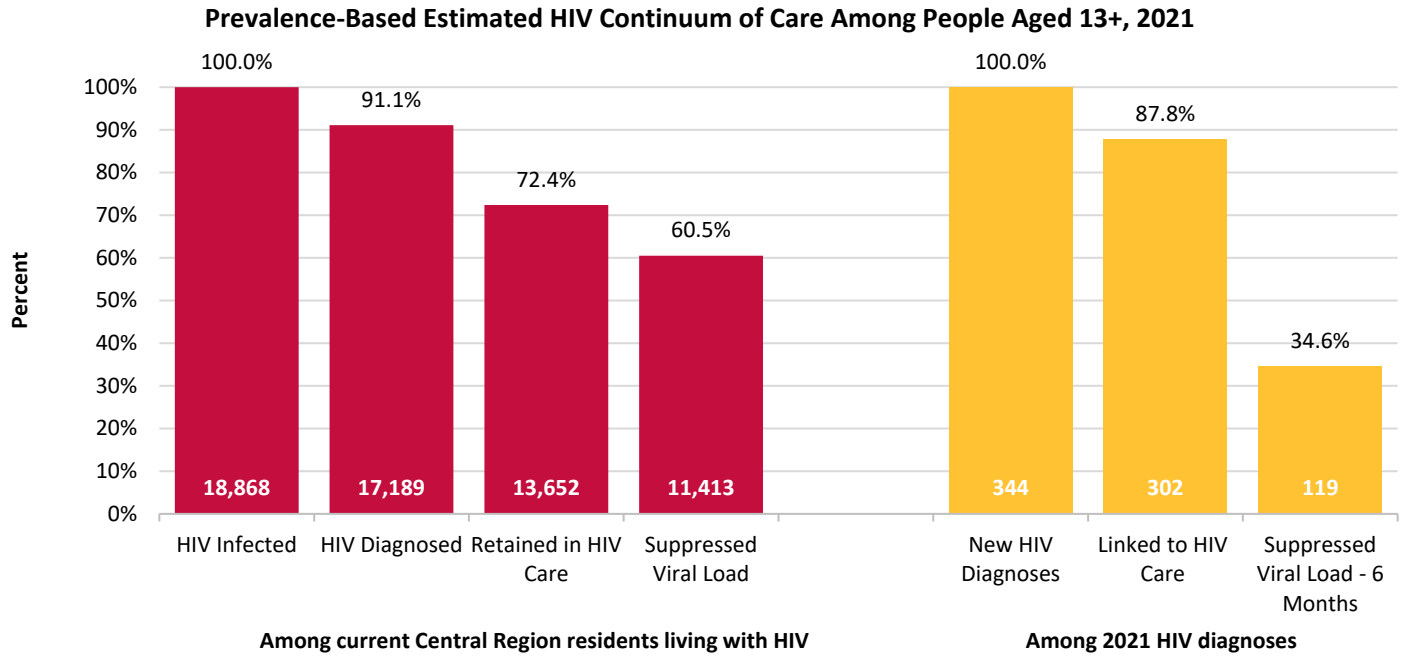
Data for 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

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

The prevalence-based Central 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 (8.9%) and the estimated number of people living with HIV currently residing in Central Region. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in Central 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.



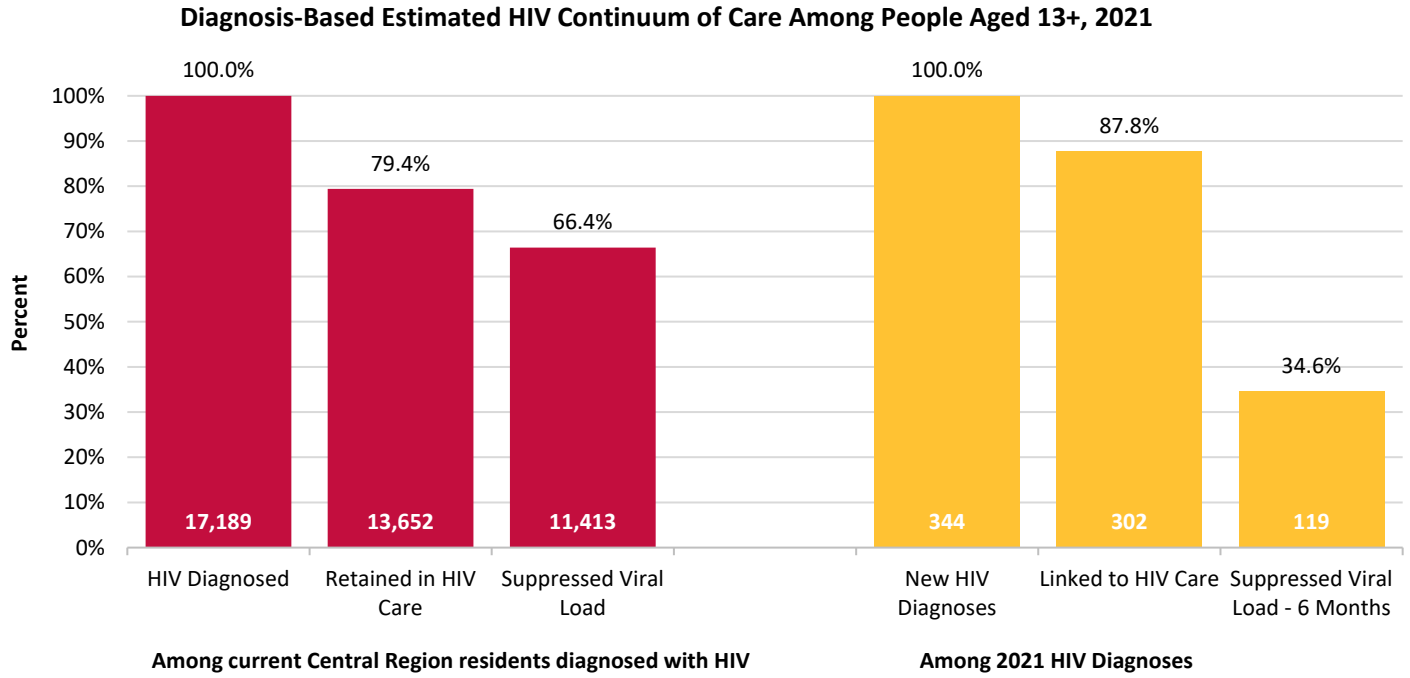
Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2021 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected	18,868	100.0%	New HIV Diagnoses	344	100.0%
HIV Diagnosed	17,189	91.1%	Linked to HIV Care	302	87.8%
Retained in HIV Care	13,652	72.4%	Suppressed Viral Load – 6 Months	119	34.6%
Suppressed Viral Load	11,413	60.5%			

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

The diagnosis-based Central Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Central Region residents to describe the number and percentage of persons living with diagnosed HIV in Central Region 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	17,189	100.0%	New HIV Diagnoses	344	100.0%
Retained in HIV Care	13,652	79.4%	Linked to HIV Care	302	87.8%
Suppressed Viral Load	11,413	66.4%	Suppressed Viral Load – 6 Months	119	34.6%

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
Anne Arundel	495,875	38	11.0%	7.7	15	7.4%	3.0
Baltimore City	490,631	161	46.8%	32.8	119	58.3%	24.3
Baltimore	717,800	106	30.8%	14.8	48	23.5%	6.7
Carroll	147,304	8	2.3%	5.4	6	2.9%	4.1
Harford	221,922	9	2.6%	4.1	3	1.5%	1.4
Howard	278,903	22	6.4%	7.9	13	6.4%	4.7
Total	2,352,434	344	100.0%	14.6	204	100.0%	8.7

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
Anne Arundel	38	89.5%	34.2%	23.7%	94.7%	343
Baltimore City	161	84.5%	34.8%	17.4%	93.8%	402
Baltimore	106	90.6%	35.8%	27.4%	96.2%	384
Carroll	8	100.0%	***	62.5%	100.0%	96
Harford	9	88.9%	***	***	100.0%	500
Howard	22	90.9%	31.8%	***	100.0%	353
Total	344	87.8%	34.6%	21.8%	95.3%	385

*** 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)	
Anne Arundel	495,875	1,343	7.5%	270.8	369	1,449	8.4%	292.2	342	7.9%
Baltimore City	490,631	11,948	66.7%	2,435.2	41	10,471	60.9%	2,134.2	47	-12.4%
Baltimore	717,800	3,335	18.6%	464.6	215	3,814	22.2%	531.3	188	14.4%
Carroll	147,304	160	0.9%	108.6	921	173	1.0%	117.4	851	8.1%
Harford	221,922	467	2.6%	210.4	475	537	3.1%	242	413	15.0%
Howard	278,903	654	3.7%	234.5	426	745	4.3%	267.1	374	13.9%
Total	2,352,434	17,907	100.0%	761.2	131	17,189	100.0%	730.7	137	-4.0%

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							
		Recent CD4 Test Result						
	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Anne Arundel	1,449	1,069	73.8%	648	5.9%	8.6%	16.8%	68.7%
Baltimore City	10,471	7,532	71.9%	601	8.7%	12.8%	16.4%	62.2%
Baltimore	3,814	2,707	71.0%	645	6.2%	10.0%	16.1%	67.7%
Carroll	173	130	75.1%	631	11.5%	9.2%	13.8%	65.4%
Harford	537	360	67.0%	662	6.4%	12.5%	14.4%	66.7%
Howard	745	576	77.3%	660	5.6%	10.1%	14.8%	69.6%
Total	17,189	12,374	72.0%	621	7.7%	11.7%	16.2%	64.4%

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				
		Recent Viral Load Test Result			
	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed Viral Load
Anne Arundel	1,449	1,060	73.2%	91.3%	8,785
Baltimore City	10,471	7,887	75.3%	87.5%	9,660
Baltimore	3,814	2,836	74.4%	90.5%	9,300
Carroll	173	132	76.3%	89.4%	8,836
Harford	537	373	69.5%	89.3%	27,595
Howard	745	573	76.9%	91.1%	3,090
Total	17,189	12,861	74.8%	88.7%	9,355

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)	159,603	0	0.0%	0.0	--	--	--	--	--
5-12 (Pediatric)	275,492	0	0.0%	0.0	--	--	--	--	--
13-19	245,601	19	5.5%	7.7	89.5%	31.6%	***	100.0%	451
20-29	354,813	105	30.5%	29.6	84.8%	32.4%	10.5%	93.3%	411
30-39	402,964	105	30.5%	26.1	89.5%	41.9%	23.8%	98.1%	378
40-49	341,251	42	12.2%	12.3	90.5%	31.0%	***	100.0%	367
50-59	370,894	45	13.1%	12.1	84.4%	28.9%	40.0%	88.9%	282
60+	636,911	28	8.1%	4.4	92.9%	32.1%	32.1%	92.9%	375
Total	2,787,529	344	100.0%	12.3	87.8%	34.6%	21.8%	95.3%	385

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)	159,603	2	0.0%	1.3	79,802
5-12 (Pediatric)	275,492	15	0.1%	5.4	18,366
13-19	245,601	61	0.4%	24.8	4,026
20-29	354,813	1,138	6.6%	320.7	312
30-39	402,964	3,076	17.9%	763.3	131
40-49	341,251	2,971	17.3%	870.6	115
50-59	370,894	4,963	28.8%	1,338.1	75
60+	636,911	4,980	29.0%	781.9	128
Total	2,787,529	17,206	100.0%	617.2	162

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	61	52	85.2%	685	3.8%	5.8%	9.6%	80.8%
20-29	1,138	866	76.1%	649	6.6%	8.1%	14.8%	70.6%
30-39	3,076	2,222	72.2%	644	9.3%	10.1%	14.6%	66.0%
40-49	2,971	2,065	69.5%	656	7.3%	10.2%	15.9%	66.6%
50-59	4,963	3,533	71.2%	616	7.8%	12.5%	16.2%	63.5%
60+	4,980	3,636	73.0%	591	7.2%	13.6%	17.7%	61.5%
Total	17,189	12,374	72.0%	621	7.7%	11.7%	16.2%	64.4%

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				
		Recent Viral Load Test Result			
	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed Viral Load
13-19	61	53	86.9%	75.5%	6,050
20-29	1,138	880	77.3%	78.4%	9,790
30-39	3,076	2,262	73.5%	81.7%	11,800
40-49	2,971	2,178	73.3%	89.3%	8,450
50-59	4,963	3,735	75.3%	91.0%	9,425
60+	4,980	3,753	75.4%	93.0%	5,020
Total	17,189	12,861	74.8%	88.7%	9,355

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	1,225,475	80	23.3%	6.5	95.0%	45.0%	21.3%	98.8%	438
Male	1,126,959	264	76.7%	23.4	85.6%	31.4%	22.0%	94.3%	380
Gender									
Cisgender Man or Boy	1,126,959	254	73.8%	22.5	85.4%	31.9%	22.4%	94.1%	377
Cisgender Woman or Girl	1,225,475	78	22.7%	6.4	96.2%	44.9%	21.8%	98.7%	439
Transgender Woman or Girl	--	10	2.9%	0.0	***	***	***	***	***
Transgender Man or Boy	--	2	0.6%	0.0	***	***	***	***	***
Another Gender Identity	--	0	0.0%	0.0	--	--	--	--	--
Race/Ethnicity									
Hispanic	135,946	30	8.7%	22.1	93.3%	36.7%	20.0%	96.7%	334
Non-Hispanic	2,216,487	314	91.3%	14.2	87.3%	34.4%	22.0%	95.2%	397
American Indian/Alaska Native, only	5,940	0	0.0%	0.0	--	--	--	--	--
Asian, only	146,192	3	0.9%	2.1	***	***	***	***	***
Black, only	694,452	256	74.4%	36.9	86.3%	34.8%	21.1%	94.9%	409
Native Hawaiian/Other Pacific Islander, only	1,149	1	0.3%	87	***	***	***	***	***
White, only	1,321,300	46	13.4%	3.5	89.1%	30.4%	23.9%	95.7%	354
Multiracial/Other	47,454	8	2.3%	16.9	100.0%	***	***	100.0%	297
Total	2,352,434	344	100.0%	14.6	87.8%	34.6%	21.8%	95.3%	385
Country of Birth									
United States	2,041,341	306	89.0%	15.0	87.6%	34.6%	19.9%	95.4%	396
Foreign-Born	274,912	26	7.6%	9.5	96.2%	34.6%	46.2%	100.0%	287
Africa	--	14	4.1%	--	100.0%	35.7%	42.9%	100.0%	318
Asia	--	3	0.9%	--	***	***	***	***	***
Caribbean	--	0	0.0%	--	--	--	--	--	--
Central America	--	5	1.5%	--	***	***	***	100.0%	223
Other	--	4	1.2%	--	***	***	***	***	***
Unknown	--	12	3.5%	--	75.0%	***	***	83.3%	582
Total	2,316,254	344	100.0%	14.9	87.8%	34.6%	21.8%	95.3%	385

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	65,878	8	10.0%	12.1	70,068	22	8.3%	31.4
Non-Hispanic	1,159,597	72	90.0%	6.2	1,056,890	242	91.7%	22.9
American Indian/Alaska Native, only	3,054	0	0.0%	0.0	2,886	0	0.0%	0.0
Asian, only	76,496	***	***	***	69,696	***	***	***
Black, only	380,339	58	72.5%	15.2	314,113	198	75.0%	63.0
Native Hawaiian/Other Pacific Islander, only	639	***	***	***	511	***	***	***
White, only	674,023	14	17.5%	2.1	647,277	32	12.1%	4.9
Multiracial/Other	25,046	0	0.0%	0.0	22,408	8	3.0%	35.7
Total	1,225,475	80	100.0%	6.5	1,126,959	264	100.0%	23.4

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.

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

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	1,225,475	5,873	34.2%	479.2	209
Male	1,126,959	11,316	65.8%	1,004.1	100
Gender					
Cisgender Man or Boy	1,126,959	11,075	64.4%	982.7	102
Cisgender Woman or Girl	1,225,475	5,856	34.1%	477.9	209
Transgender Woman or Girl	--	241	1.4%	--	--
Transgender Man or Boy	--	17	0.1%	--	--
Another Gender Identity	--	0	0.0%	--	--
Race/Ethnicity					
Hispanic	135,946	880	5.1%	647.3	154
Non-Hispanic	2,216,487	16,309	94.9%	735.8	136
American Indian/Alaska Native, only	5,940	7	0.0%	117.8	849
Asian, only	146,192	114	0.7%	78.0	1,282
Black, only	694,452	13,082	76.1%	1,883.8	53
Native Hawaiian/Other Pacific Islander, only	1,149	1	0.0%	87.0	1,149
White, only	1,321,300	2,127	12.4%	161.0	621
Multiracial/Other	47,454	978	5.7%	2,060.9	49
Total	2,352,434	17,189	100.0%	730.7	137
Country of Birth					
United States	2,041,341	15,628	90.9%	765.6	131
Foreign-Born	274,912	1,097	6.4%	399.0	251
Africa	--	602	3.5%	--	--
Asia	--	104	0.6%	--	--
Caribbean	--	85	0.5%	--	--
Central America	--	205	1.2%	--	--
Other	--	101	0.6%	--	--
Unknown	--	464	2.7%	--	--
Total	2,316,254	17,189	100.0%	742.1	135

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	65,878	211	3.6%	320.3	70,068	669	5.9%	954.8
Non-Hispanic	1,159,597	5,662	96.4%	488.3	1,056,890	10,647	94.1%	1,007.4
American Indian/Alaska Native, only	3,054	***	***	***	2,886	***	***	***
Asian, only	76,496	29	0.5%	37.9	69,696	85	0.8%	122.0
Black, only	380,339	4,867	82.9%	1,279.6	314,113	8,215	72.6%	2,615.3
Native Hawaiian/Other Pacific Islander, only	639	***	***	***	511	***	***	***
White, only	674,023	450	7.7%	66.8	647,277	1,677	14.8%	259.1
Multiracial/Other	25,046	312	5.3%	1,245.7	22,408	666	5.9%	2,972.2
Total	1,225,475	5,873	100.0%	479.2	1,126,959	11,316	100.0%	1,004.1

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	5,873	4,290	73.0%	664	7.3%	10.5%	13.9%	68.2%
Male	11,316	8,084	71.4%	600	7.9%	12.3%	17.4%	62.4%
Gender								
Cisgender Man or Boy	11,075	7,894	71.3%	598	7.9%	12.3%	17.5%	62.3%
Cisgender Woman or Girl	5,856	4,276	73.0%	663	7.3%	10.6%	13.9%	68.2%
Transgender Woman or Girl	241	190	78.8%	707	7.9%	11.1%	11.6%	69.5%
Transgender Man or Boy	17	14	82.4%	721	7.1%	0.0%	28.6%	64.3%
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	880	613	69.7%	621	9.1%	9.6%	17.5%	63.8%
Non-Hispanic	16,309	11,761	72.1%	621	7.6%	11.8%	16.1%	64.5%
American Indian/Alaska Native, only	7	***	***	***	***	***	***	***
Asian, only	114	79	69.3%	536	1.3%	21.5%	17.7%	59.5%
Black, only	13,082	9,478	72.5%	620	7.8%	11.8%	15.9%	64.5%
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***	***	***	***
White, only	2,127	1,476	69.4%	640	6.3%	11.2%	16.3%	66.2%
Multiracial/Other	978	725	74.1%	604	9.1%	11.4%	18.2%	61.2%
Country of Birth								
United States	15,628	11,295	72.3%	618	8.0%	11.8%	16.1%	64.1%
Foreign-Born	1,097	749	68.3%	627	4.9%	10.8%	18.8%	65.4%
Africa	602	414	68.8%	607	5.1%	9.4%	18.8%	66.7%
Asia	104	68	65.4%	543	1.5%	20.6%	20.6%	57.4%
Caribbean	85	63	74.1%	638	4.8%	14.3%	15.9%	65.1%
Central America	205	142	69.3%	650	7.7%	10.6%	19.0%	62.7%
Other	101	62	61.4%	690	1.6%	6.5%	19.4%	72.6%
Unknown	464	330	71.1%	696	3.0%	10.0%	13.3%	73.6%
Total	17,189	12,374	72.0%	621	7.7%	11.7%	16.2%	64.4%

*** 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	5,873	4,511	76.8%	88.9%	7,791
Male	11,316	8,350	73.8%	88.7%	10,250
Gender					
Cisgender Man or Boy	11,075	8,157	73.7%	88.9%	10,500
Cisgender Woman or Girl	5,856	4,498	76.8%	88.9%	7,721
Transgender Woman or Girl	241	193	80.1%	78.2%	8,025
Transgender Man or Boy	17	13	76.5%	92.3%	703,000
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	880	631	71.7%	91.6%	5,110
Non-Hispanic	16,309	12,230	75.0%	88.6%	9,420
American Indian/Alaska Native, only	7	***	***	***	***
Asian, only	114	87	76.3%	100.0%	--
Black, only	13,082	9,810	75.0%	87.9%	9,311
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***
White, only	2,127	1,564	73.5%	91.8%	23,250
Multiracial/Other	978	766	78.3%	89.8%	4,020
Country of Birth					
United States	15,628	11,755	75.2%	88.3%	9,660
Foreign-Born	1,097	767	69.9%	93.6%	2,640
Africa	602	418	69.4%	92.6%	2,210
Asia	104	74	71.2%	100.0%	--
Caribbean	85	61	71.8%	96.7%	437,500
Central America	205	150	73.2%	93.3%	1,785
Other	101	64	63.4%	90.6%	27,770
Unknown	464	339	73.1%	92.3%	8,735
Total	17,189	12,861	74.8%	88.7%	9,355

*** 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	24,839	67,815	93,124	27,282	213,059
	Number	0	6	2	1	9
	Rate	0.0	8.8	2.1	3.7	4.2
	Ratio (1 in X)	--	11,302	46,562	27,282	23,673
13-19	Population	11,077	39,403	55,898	14,275	120,654
	Number	0	21	0	1	22
	Rate	0.0	53.3	0.0	7.0	18.2
	Ratio (1 in X)	--	1,876	--	14,275	5,484
20-29	Population	12,932	59,823	86,651	17,811	177,217
	Number	19	216	12	10	257
	Rate	146.9	361.1	13.8	56.1	145.0
	Ratio (1 in X)	681	277	7,221	1,781	690
30-39	Population	14,023	67,643	104,529	20,864	207,059
	Number	38	604	80	51	773
	Rate	271.0	892.9	76.5	244.4	373.3
	Ratio (1 in X)	369	112	1,307	409	268
40-49	Population	12,384	57,229	87,872	18,721	176,206
	Number	55	962	108	86	1,211
	Rate	444.1	1,681.0	122.9	459.4	687.3
	Ratio (1 in X)	225	59	814	218	146
50-59	Population	7,859	59,294	110,342	14,331	191,826
	Number	57	1,612	147	93	1,909
	Rate	725.3	2,718.7	133.2	648.9	995.2
	Ratio (1 in X)	138	37	751	154	100
60+	Population	7,603	96,947	228,731	19,232	352,513
	Number	42	1,452	103	104	1,701
	Rate	552.4	1,497.7	45.0	540.8	482.5
	Ratio (1 in X)	181	67	2,221	185	207
Total Females by Race/Ethnicity	Population	90,717	448,154	767,147	132,516	1,438,534
	Number	211	4,873	452	346	5,882
	Rate	232.6	1,087.3	58.9	261.1	408.9
	Ratio (1 in X)	430	92	1,697	383	245

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	26,208	69,752	97,964	28,112	222,036
	Number	1	5	1	1	8
	Rate	3.8	7.2	1.0	3.6	3.6
	Ratio (1 in X)	26,208	13,950	97,964	28,112	27,755
13-19	Population	11,519	40,075	59,017	14,336	124,947
	Number	4	32	3	0	39
	Rate	34.7	79.9	5.1	0.0	31.2
	Ratio (1 in X)	2,880	1,252	19,672	--	3,204
20-29	Population	13,243	56,218	90,889	17,246	177,596
	Number	77	705	55	44	881
	Rate	581.4	1,254.0	60.5	255.1	496.1
	Ratio (1 in X)	172	80	1,653	392	202
30-39	Population	15,585	56,339	105,486	18,495	195,905
	Number	165	1,747	231	160	2,303
	Rate	1,058.7	3,100.9	219.0	865.1	1,175.6
	Ratio (1 in X)	94	32	457	116	85
40-49	Population	14,220	46,568	87,603	16,654	165,045
	Number	160	1,191	283	126	1,760
	Rate	1,125.2	2,557.6	323.0	756.6	1,066.4
	Ratio (1 in X)	89	39	310	132	94
50-59	Population	8,747	49,390	108,082	12,849	179,068
	Number	161	2,124	553	216	3,054
	Rate	1,840.6	4,300.5	511.6	1,681.1	1,705.5
	Ratio (1 in X)	54	23	195	59	59
60+	Population	6,754	65,523	196,200	15,921	284,398
	Number	102	2,416	552	209	3,279
	Rate	1,510.2	3,687.3	281.3	1,312.7	1,153.0
	Ratio (1 in X)	66	27	355	76	87
Total Males by Race/Ethnicity	Population	96,276	383,865	745,241	123,613	1,348,995
	Number	670	8,220	1,678	756	11,324
	Rate	695.9	2,141.4	225.2	611.6	839.4
	Ratio (1 in X)	144	47	444	164	119

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)	189	54.8%	86.0%	33.7%	18.4%	95.5%	385
Injection Drug Use (IDU)	28	8.3%	84.5%	***	***	88.0%	409
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	6	1.9%	73.4%	***	***	76.6%	224
Heterosexual Contact (HET)	121	35.1%	92.1%	39.5%	27.8%	97.8%	382
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	344	100.0%	87.8%	34.6%	21.8%	95.3%	385
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	10	12.6%	80.2%	***	***	100.0%	330
Heterosexual Contact (HET)	70	87.4%	97.1%	***	***	98.6%	439
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	80	100.0%	95.0%	45.0%	21.3%	98.8%	438
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MMSC)	189	71.4%	86.0%	33.7%	18.4%	95.5%	385
Injection Drug Use (IDU)	18	6.9%	86.9%	***	***	81.4%	419
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	6	2.4%	73.4%	***	***	76.6%	224
Heterosexual Contact (HET)	51	19.2%	85.2%	26.2%	36.2%	96.9%	331
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	264	100.0%	85.6%	31.4%	22.0%	94.3%	380

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)	6,320	36.8%
Injection Drug Use (IDU)	3,833	22.3%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	735	4.3%
Heterosexual Contact (HET)	5,983	34.8%
Perinatal Transmission	251	1.5%
Other Exposure	27	0.2%
No Estimated or Reported Exposure	40	0.2%
Total	17,189	100.0%
Female Estimated or Reported Exposure Category		
Injection Drug Use (IDU)	1,606	27.4%
Heterosexual Contact (HET)	4,086	69.6%
Perinatal Transmission	146	2.5%
Other Exposure	11	0.2%
No Estimated or Reported Exposure	24	0.4%
Total	5,873	100.0%
Male Estimated or Reported Exposure Category		
Male-to-male Sexual Contact (MMSC)	6,320	55.9%
Injection Drug Use (IDU)	2,227	19.7%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	735	6.5%
Heterosexual Contact (HET)	1,897	16.8%
Perinatal Transmission	105	0.9%
Other Exposure	16	0.1%
No Estimated or Reported Exposure	16	0.1%
Total	11,316	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)	446	50.7%	4,179	31.9%	1,231	57.9%
Injection Drug Use (IDU)	86	9.8%	3,153	24.1%	372	17.5%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	29	3.3%	541	4.1%	104	4.9%
Heterosexual Contact (HET)	308	35.0%	4,943	37.8%	395	18.6%
Perinatal Transmission	7	0.8%	221	1.7%	11	0.5%
Other Exposure	1	0.1%	11	0.1%	13	0.6%
No Estimated or Reported Exposure	3	0.3%	33	0.3%	1	0.0%
Total	880	100.0%	13,081	100.0%	2,127	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	39	18.5%	1,255	25.8%	197	43.8%
Heterosexual Contact (HET)	167	79.1%	3,450	70.9%	247	54.9%
Perinatal Transmission	3	1.4%	133	2.7%	4	0.9%
Other Exposure	0	0.0%	8	0.2%	2	0.4%
No Estimated or Reported Exposure	2	0.9%	21	0.4%	0	0.0%
Total	211	100.0%	4,867	100.0%	450	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MMSC)	446	66.6%	4,179	50.9%	1,231	73.4%
Injection Drug Use (IDU)	47	7.1%	1,898	23.1%	175	10.4%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	29	4.4%	541	6.6%	104	6.2%
Heterosexual Contact (HET)	141	21.0%	1,493	18.2%	148	8.8%
Perinatal Transmission	4	0.6%	88	1.1%	7	0.4%
Other Exposure	1	0.1%	3	0.0%	11	0.7%
No Estimated or Reported Exposure	1	0.1%	12	0.1%	1	0.1%
Total	669	100.0%	8,214	100.0%	1,677	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)	6,320	4,584	72.5%	651	6.1%	9.5%	15.9%	68.5%
Injection Drug Use (IDU)	3,833	2,754	71.9%	547	10.1%	15.8%	18.5%	55.5%
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	735	542	73.7%	553	11.2%	14.2%	18.5%	56.1%
Heterosexual Contact (HET)	5,983	4,248	71.0%	650	6.8%	11.0%	14.9%	67.3%
Perinatal Transmission	251	195	77.7%	545	17.9%	10.8%	14.4%	56.9%
Other Exposure	27	20	74.1%	531	15.0%	10.0%	15.0%	60.0%
No Estimated or Reported Exposure	40	31	77.5%	574	12.9%	9.7%	12.9%	64.5%
Total	17,189	12,374	72.0%	621	7.7%	11.7%	16.2%	64.4%

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

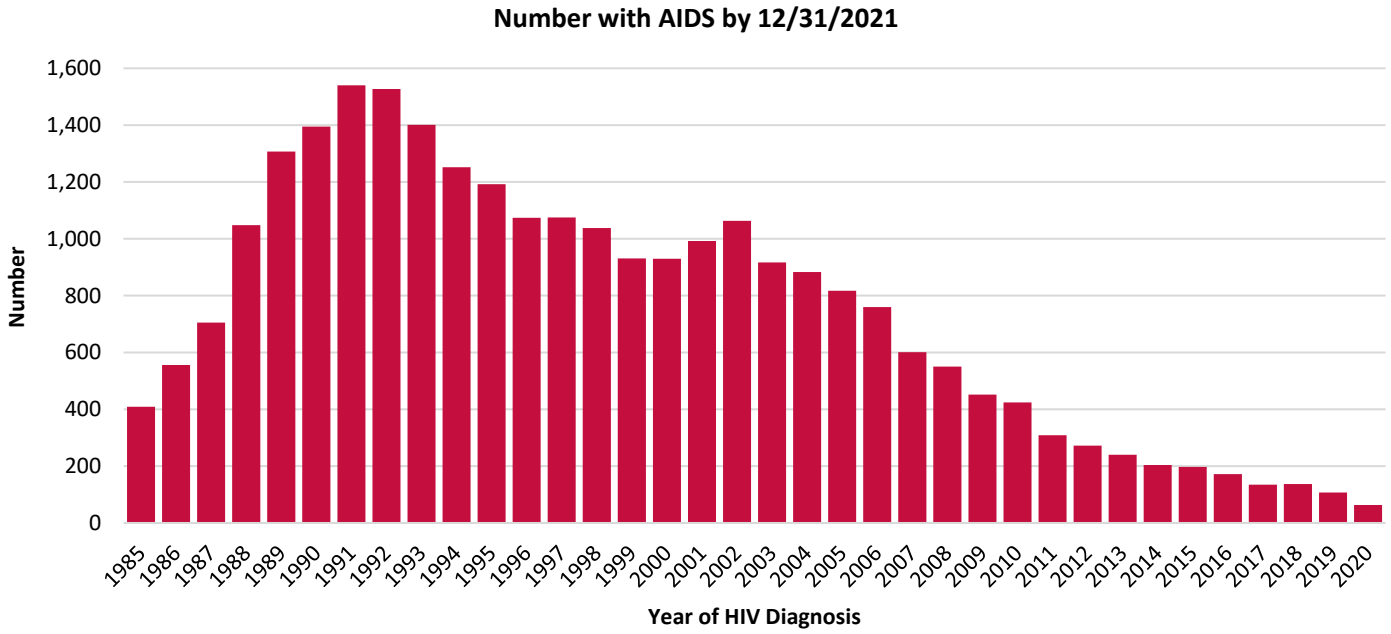
Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed Viral Load
Male-to-male Sexual Contact (MMSC)	6,320	4,755	75.2%	88.9%	9,940
Injection Drug Use (IDU)	3,833	2,867	74.8%	88.3%	11,200
Male-to-male Sexual Contact and Injection Drug Use (MMSC/IDU)	735	565	76.8%	85.6%	8,910
Heterosexual Contact (HET)	5,983	4,415	73.8%	90.2%	8,440
Perinatal Transmission	251	207	82.5%	69.6%	8,180
Other Exposure	27	19	70.4%	100.0%	--
No Estimated or Reported Exposure	40	33	82.5%	72.7%	3,690
Total	17,189	12,861	74.8%	88.7%	9,355

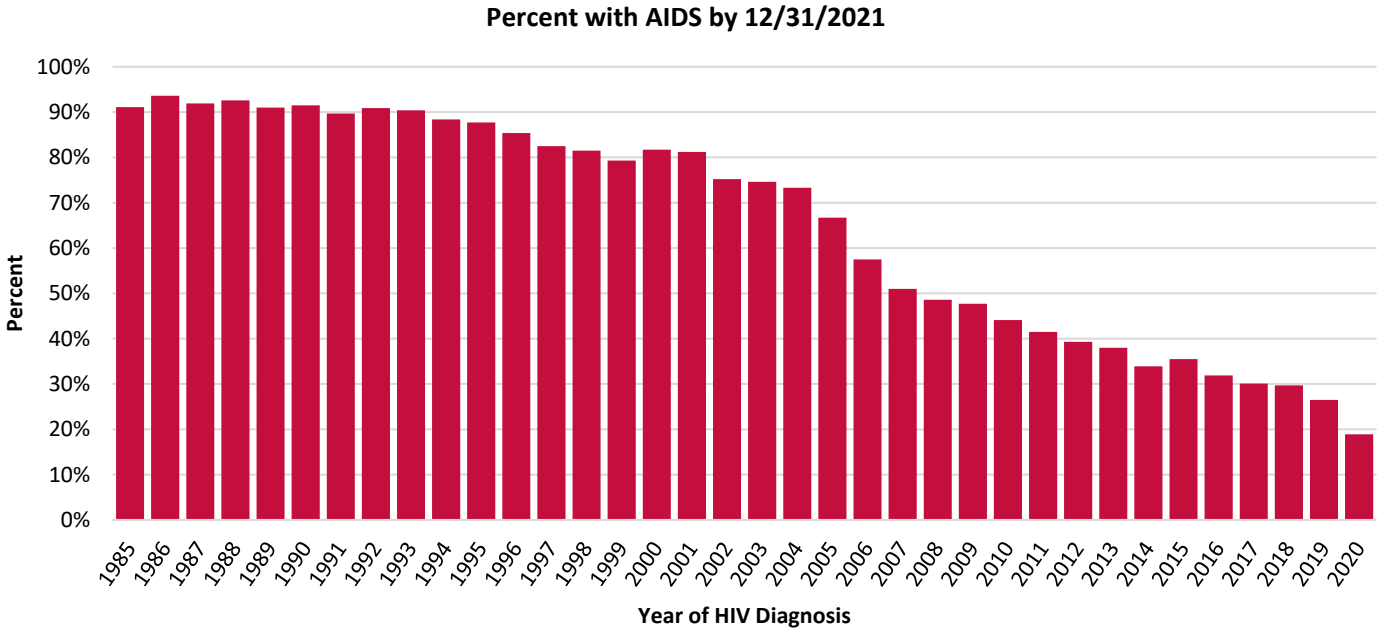
Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

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

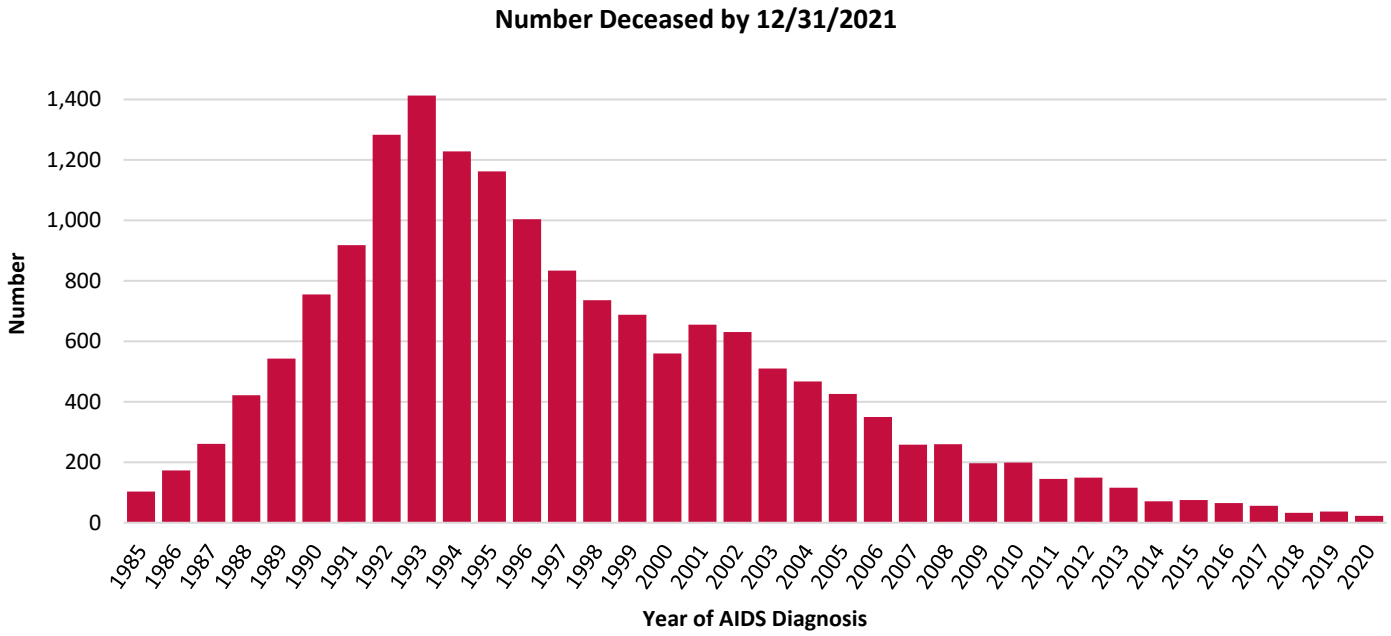


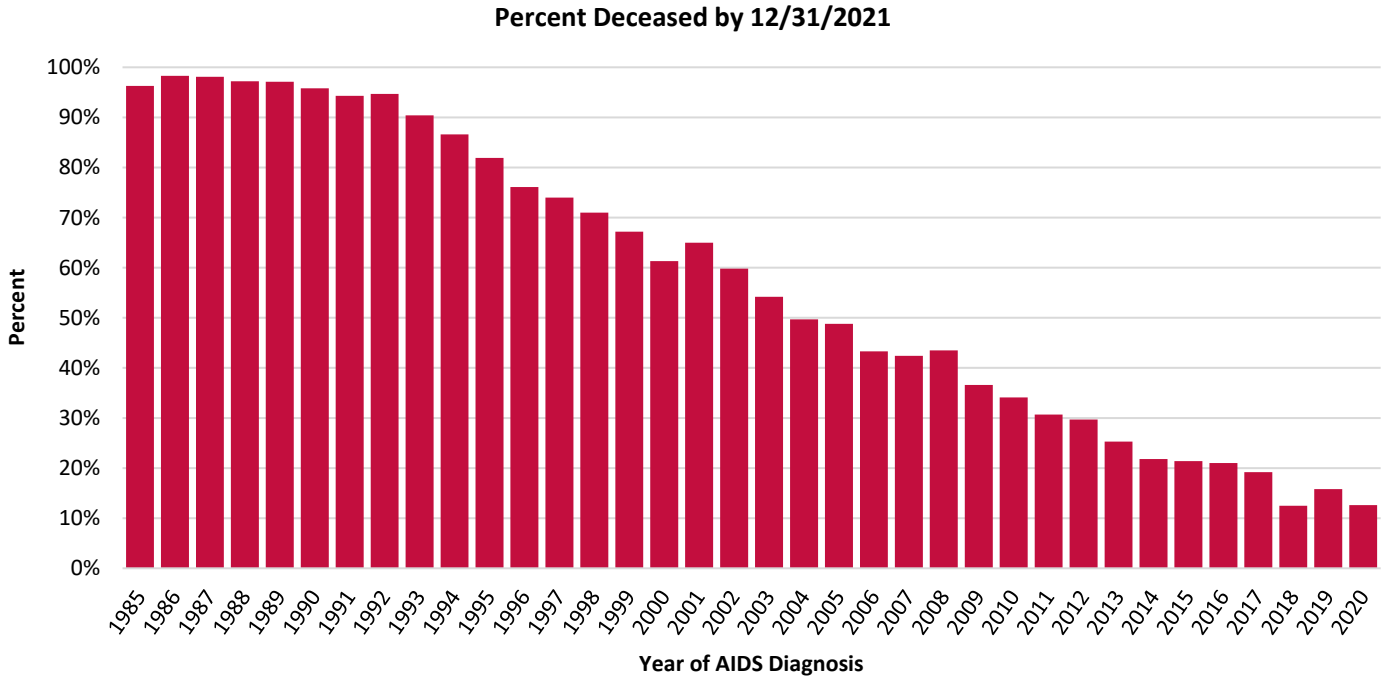


Year of HIV Diagnosis	Reported HIV Diagnoses among People Aged 13+							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	239	230	96.2%	7.2	33.1%	33.1%	36.4%	67.4%
1985	449	409	91.1%	6.6	25.8%	27.4%	35.2%	74.4%
1986	594	556	93.6%	5.6	32.8%	33.8%	46.3%	80.3%
1987	767	705	91.9%	4.7	33.2%	36.8%	53.8%	82.4%
1988	1,132	1,048	92.6%	4.0	37.9%	41.7%	63.5%	86.0%
1989	1,436	1,307	91.0%	3.7	38.4%	43.9%	67.8%	83.6%
1990	1,525	1,395	91.5%	3.2	43.9%	50.9%	73.4%	85.3%
1991	1,716	1,540	89.7%	2.8	46.5%	56.0%	73.7%	84.2%
1992	1,679	1,527	90.9%	2.7	50.5%	59.1%	75.8%	84.6%
1993	1,549	1,401	90.4%	2.3	54.2%	62.8%	77.0%	86.0%
1994	1,417	1,252	88.4%	2.4	54.2%	62.0%	74.9%	83.1%
1995	1,359	1,192	87.7%	2.5	56.4%	62.2%	72.4%	82.1%
1996	1,258	1,074	85.4%	2.1	59.5%	64.4%	71.7%	80.6%
1997	1,303	1,075	82.5%	2.3	54.5%	59.5%	68.9%	77.5%
1998	1,273	1,038	81.5%	2.1	56.1%	60.0%	68.4%	76.8%
1999	1,174	931	79.3%	1.9	56.4%	60.6%	68.7%	75.4%
2000	1,138	930	81.7%	1.9	56.4%	60.8%	70.5%	77.9%
2001	1,222	992	81.2%	1.9	57.9%	62.1%	71.3%	76.8%
2002	1,414	1,063	75.2%	2.0	53.1%	56.7%	64.2%	70.9%
2003	1,230	917	74.6%	1.8	54.1%	58.1%	64.1%	71.0%
2004	1,204	883	73.3%	2.0	51.2%	55.3%	61.9%	69.0%
2005	1,224	817	66.7%	2.0	46.0%	49.3%	56.0%	63.2%
2006	1,321	760	57.5%	2.2	37.8%	40.0%	47.5%	54.4%
2007	1,178	601	51.0%	2.7	29.1%	32.3%	39.9%	47.5%
2008	1,132	550	48.6%	2.4	28.2%	31.7%	40.0%	45.8%
2009	948	452	47.7%	2.3	27.5%	30.8%	39.3%	45.7%
2010	962	424	44.1%	2.3	25.9%	28.6%	36.0%	42.8%
2011	745	309	41.5%	1.8	26.6%	30.5%	35.4%	40.9%
2012	692	272	39.3%	1.5	27.2%	29.8%	35.5%	--
2013	632	240	38.0%	1.3	28.6%	30.1%	34.3%	--
2014	601	204	33.9%	1.1	24.8%	28.0%	31.9%	--
2015	555	197	35.5%	1.1	25.8%	28.8%	33.0%	--
2016	540	172	31.9%	0.8	25.0%	27.2%	31.1%	--
2017	449	135	30.1%	0.7	24.7%	26.3%	--	--
2018	461	137	29.7%	0.5	26.0%	27.3%	--	--
2019	404	107	26.5%	0.4	23.5%	24.8%	--	--
2020	334	63	18.9%	0.2	17.7%	--	--	--
Total	37,256	26,905	72.2%	2.6	43.3%	47.9%	58.5%	67.7%

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





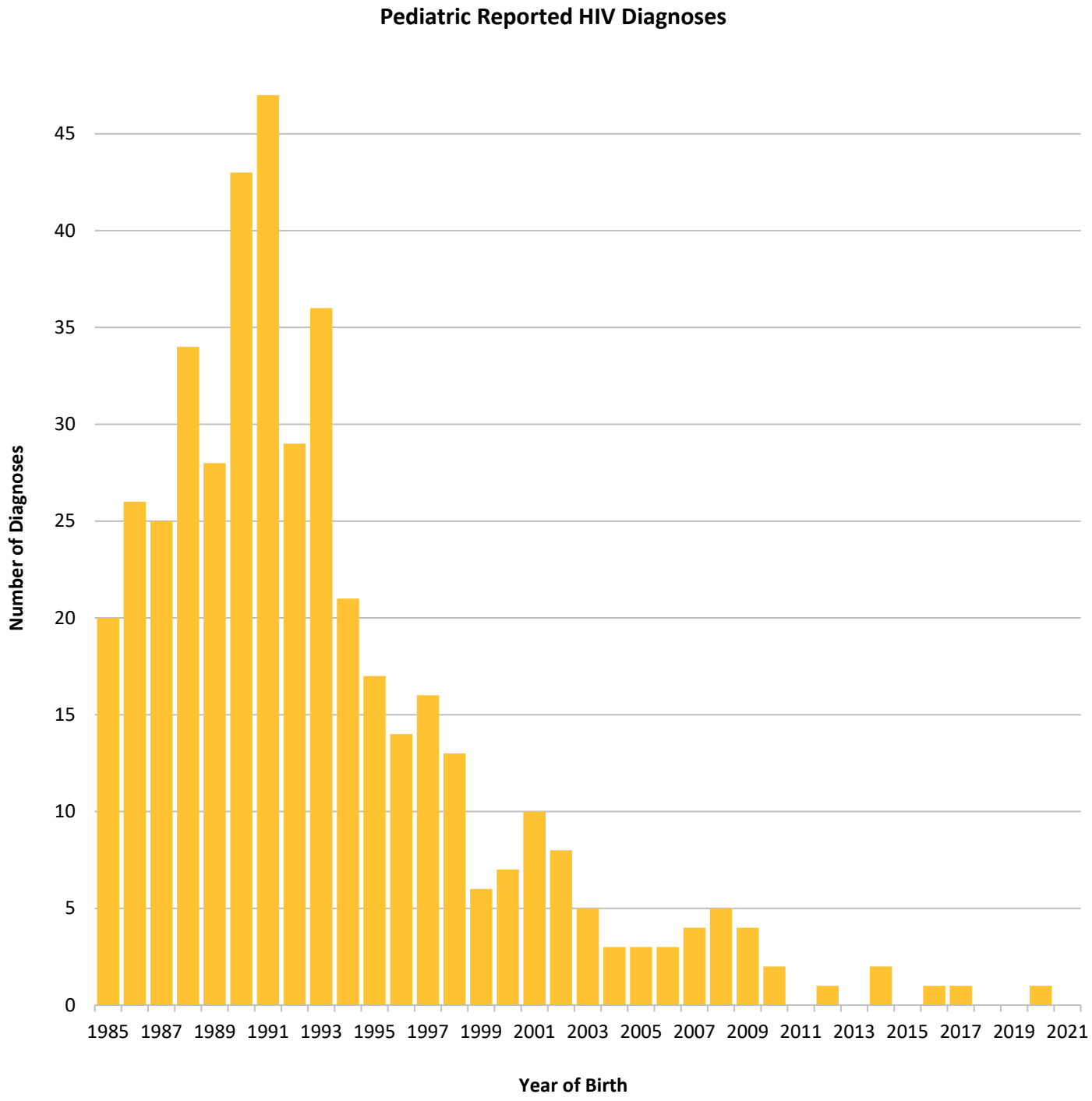
Year of AIDS Diagnosis	Reported AIDS Diagnoses among People Aged 13+							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Deceased	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	77	73	94.8%	2.5	53.2%	33.8%	16.9%	14.3%
1985	107	103	96.3%	1.9	43.0%	22.4%	9.3%	7.5%
1986	176	173	98.3%	2.6	54.0%	35.8%	14.8%	8.5%
1987	266	261	98.1%	2.3	62.0%	33.5%	11.3%	5.3%
1988	434	422	97.2%	2.5	59.2%	39.4%	14.3%	6.9%
1989	559	543	97.1%	2.8	60.8%	39.2%	15.7%	8.1%
1990	788	755	95.8%	3.2	66.1%	46.6%	20.1%	11.5%
1991	974	918	94.3%	3.0	67.8%	46.3%	18.2%	12.1%
1992	1,355	1,283	94.7%	3.3	70.5%	48.8%	20.2%	14.0%
1993	1,563	1,413	90.4%	4.2	77.8%	55.5%	32.2%	20.9%
1994	1,418	1,228	86.6%	4.3	77.5%	58.6%	38.0%	23.9%
1995	1,418	1,162	81.9%	5.7	78.8%	66.6%	49.4%	35.2%
1996	1,319	1,004	76.1%	6.1	81.8%	74.8%	57.5%	41.3%
1997	1,127	834	74.0%	6.6	85.4%	77.3%	60.7%	44.3%
1998	1,036	736	71.0%	6.7	87.1%	79.8%	63.8%	46.9%
1999	1,024	688	67.2%	6.3	87.1%	80.0%	64.2%	48.7%
2000	913	560	61.3%	6.1	86.2%	80.6%	65.2%	52.6%
2001	1,007	655	65.0%	5.8	85.6%	76.9%	62.1%	49.8%
2002	1,055	631	59.8%	6.4	88.4%	82.8%	70.2%	56.6%
2003	941	510	54.2%	5.3	84.0%	78.2%	67.1%	57.5%
2004	940	467	49.7%	5.5	87.4%	82.8%	72.0%	61.9%
2005	873	426	48.8%	5.8	88.5%	83.6%	74.1%	64.7%
2006	808	350	43.3%	5.0	88.2%	83.7%	74.3%	64.4%
2007	608	258	42.4%	4.9	88.3%	84.9%	76.0%	64.8%
2008	598	260	43.5%	4.9	89.0%	83.9%	75.1%	64.9%
2009	538	197	36.6%	4.3	91.1%	87.0%	78.1%	66.5%
2010	584	199	34.1%	4.1	90.8%	88.0%	80.7%	68.2%
2011	473	145	30.7%	4.3	94.1%	90.9%	81.8%	70.6%
2012	502	149	29.7%	3.5	90.6%	88.6%	80.3%	--
2013	458	116	25.3%	3.3	94.1%	90.2%	82.1%	--
2014	325	71	21.8%	2.5	90.8%	87.1%	83.7%	--
2015	350	75	21.4%	1.9	90.9%	87.7%	80.3%	--
2016	309	65	21.0%	1.7	90.9%	86.7%	80.3%	--
2017	291	56	19.2%	1.3	91.8%	86.3%	--	--
2018	263	33	12.5%	0.9	91.6%	89.7%	--	--
2019	234	37	15.8%	0.7	89.3%	84.6%	--	--
2020*	182	23	12.6%	0.4	89.6%	--	--	--
Total	25,893	16,879	65.2%	4.7	82.0%	71.5%	55.8%	45.0%

*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	25	2	1	0	--
1985	20	7	5	1	9
1986	26	8	6	4	13
1987	25	15	10	5	23
1988	34	24	15	4	43
1989	28	29	19	5	67
1990	43	38	18	5	100
1991	47	41	26	8	132
1992	29	50	29	9	173
1993	36	46	25	12	207
1994	21	30	19	12	225
1995	17	18	15	12	230
1996	14	20	11	14	238
1997	16	10	6	6	242
1998	13	15	10	3	253
1999	6	14	7	4	262
2000	7	9	2	0	271
2001	10	9	8	3	276
2002	8	4	4	4	277
2003	5	2	2	2	276
2004	3	5	4	3	279
2005	3	1	1	0	281
2006	3	5	4	2	285
2007	4	31	7	4	311
2008	5	8	7	3	316
2009	4	6	4	2	321
2010	2	1	7	4	318
2011	0	1	6	5	315
2012	1	2	3	3	314
2013	0	1	9	2	314
2014	2	3	3	0	318
2015	0	0	2	3	316
2016	1	1	5	3	312
2017	1	1	2	3	310
2018	0	2	5	2	310
2019	0	0	3	1	309
2020	1	1	0	1	309
2021	0	0	2	1	308
Total	460	460	312	155	--

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
Anne Arundel	1	5.9%
Baltimore City	8	47.1%
Baltimore	4	23.5%
Carroll	1	5.9%
Harford	1	5.9%
Howard	2	11.8%
Total	17	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	9	52.9%
Male	8	47.1%
Race/Ethnicity		
Hispanic	1	5.9%
Non-Hispanic	16	94.1%
American Indian/Alaska Native, only	0	0.0%
Asian, only	1	5.9%
Black, only	11	64.7%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	3	17.6%
Multiracial/Other	1	5.9%
Total	17	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.