

2019

EASTERN REGION ANNUAL HIV EPIDEMIOLOGICAL PROFILE

**Data reported through
June 30, 2020**

**CENTER FOR HIV
SURVEILLANCE,
EPIDEMIOLOGY AND
EVALUATION**

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



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On the Web

<https://phpa.health.maryland.gov/OIDEOR/CHSE/SiteAssets/Pages/statistics/Eastern-Region-Annual-HIV-Epidemiological-Profile-2019>

Additional Information and Reporting Instructions

<https://phpa.health.maryland.gov/OIDEOR/CHSE/pages/Home.aspx>

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Section I – Summary of Analyses and Technical Notes

Highlights of Analyses

The Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health 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 attempt to summarize information about the HIV epidemic in Maryland.

All rates are per 100,000 population.

HIV Diagnoses

During 2019, there were 40 reported HIV diagnoses in the Eastern Region. The Eastern Region includes Caroline County, Cecil County, Dorchester County, Kent County, Queen Anne's County, Somerset County, Talbot County, Wicomico County, and Worcester County. Data presented below describe HIV diagnoses in the Eastern Region, among people age 13 years and older, during 2019.

- Geographic distribution: Wicomico County accounted for the highest number (20, 50.0%) and the highest rate (22.9) of HIV diagnoses.
- Age: Persons aged 20-39 years accounted for the highest number (32, 80.0%) of HIV diagnoses. The highest rate was among 20-29-year-olds (37.9).
- Sex at Birth: Males accounted for the highest number (32, 80.0%) of HIV diagnoses. The rate among males was 17.0 and 4.0 among females.
- Race/Ethnicity: Non-Hispanic Blacks accounted for the highest number (26, 65.0%) and rate (41.3) of diagnoses.
- Exposure Category: Male-to-male sexual contact accounted for the highest number (26, 64.8%) of diagnoses.

People living with Diagnosed HIV

At the end of 2019, there were 969 people living with diagnosed HIV in the Eastern Region. Data presented below describe people living with diagnosed HIV, aged 13 years and older, in the Eastern Region.

- Geographic distribution: Wicomico County accounted for the highest number (264, 27.2%) of people living with diagnosed HIV. Dorchester County had the highest rate (544.8) of people living with diagnosed HIV.
- Age: Persons aged 50+ years accounted for the highest number (560, 57.6%) of people living with diagnosed HIV. The highest rate was among 50-59-year-olds (504.1).
- Sex at Birth: Males accounted for the highest number (676, 69.8%) of people living with diagnosed HIV. The rate among males was 358.3 and 145.4 among females.
- Race/Ethnicity: Non-Hispanic Blacks accounted for the highest number (556, 57.4%) of the people living with diagnosed HIV.
- Exposure Category: Male-to-male sexual contact accounted for the highest number (435, 44.9%) of the total people living with diagnosed HIV.

Engagement in HIV Care

- HIV diagnosed: Among people living with HIV in the Eastern Region, it is estimated that 89.2% have been diagnosed, while an estimated 117 people with HIV in the Eastern Region remain undiagnosed.
- Linked to care: During 2019, 87.5% 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, 84.2% were retained in care during 2019.
- Viral suppression: In 2019, 72.1% 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 HIV be reported by name to the Maryland Department of Health. 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 infants 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 updates have been made to this report:

- The Background Information section has been replaced with the Summary of Analyses and Technical Notes section.
- Tables describing new HIV diagnoses by geography have been restructured. All new HIV and AIDS diagnoses will appear in Table 1. All laboratory data and outcomes for new HIV diagnoses will be described in Table 2. In the county level reports, only ZIP codes with at least five new HIV diagnoses during the specified year will be included in tables describing laboratory data and outcomes.
- Tables describing people living with diagnosed HIV by sex at birth and race/ethnicity have been added to the demographics section (Section VI).
- Mean years from HIV to AIDS diagnosis and the percentage of late HIV diagnoses among AIDS diagnoses is no longer presented in tables. Aggregate disease progression data by year is presented in Figure 10.

- The population pyramids figure describing people living with diagnosed HIV by race/ethnicity, sex at birth, and age is no longer included in this report.
- The treemap figure presenting data by sex at birth, race/ethnicity, and exposure category is no longer included in this report.

Data Specifications

Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people that have been diagnosed with HIV by a health care provider, were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2019, are receiving medical care (often only at facilities in Maryland), and only includes information that has been reported to the health department.

Data presented were reported to the Maryland Department of Health through June 30, 2020. Reported new diagnoses and estimates of people living with diagnosed HIV are as of December 31, 2019.

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.

New 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 13.8 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 10.8 percent in 2018.

¹Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2014–2018. HIV Surveillance Supplemental Report 2020;25(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published May 2020. Accessed May 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 or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent.

Mortality

People are assumed to be alive unless reported as deceased to the Maryland Department of Health. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

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 HIV and AIDS diagnoses. Estimates describing the number 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.

Residents of Correctional Facilities

People living with diagnosed HIV who were reported to be residing in a state or federal prison will be described for Maryland only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers.

Gender Identity

This epidemiological profile describes people by gender identity. Gender identity is one's internal understanding of one's own gender or the gender with which a person identifies. Historically, it has been difficult to present data by gender identity. No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number gender diverse people (defined as people who have a gender identity or gender expression that differs from their assigned sex at birth) living with diagnosed HIV because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Race/Ethnicity

The completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across agencies and some agencies do not collect or have complete data on race/ethnicity.

Country of Birth

The completeness of reporting a person's country of birth is variable in surveillance data. Not all agencies collect or have complete data on nativity. In addition, some individuals may immigrate to the U.S. 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 therefore 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, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), as of June 30, 2020.

Population data by sex, age, and race/ethnicity are from the July 1, 2019 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2018 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 race and Non-Hispanic some 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 diagnosed 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.

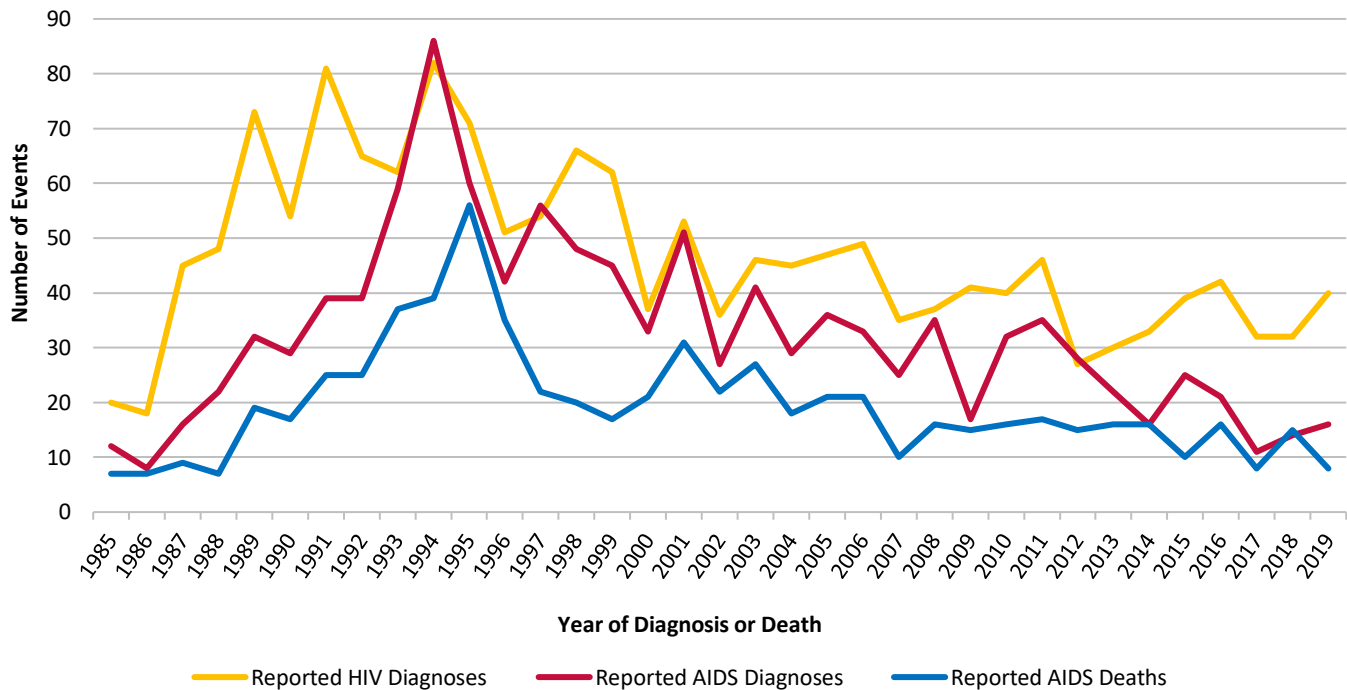
Multiple Imputation

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 1985-2019

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, Among Residents at Diagnosis, 1985-2019, Reported through June 30, 2020

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 2019, as Reported through June 30, 2020

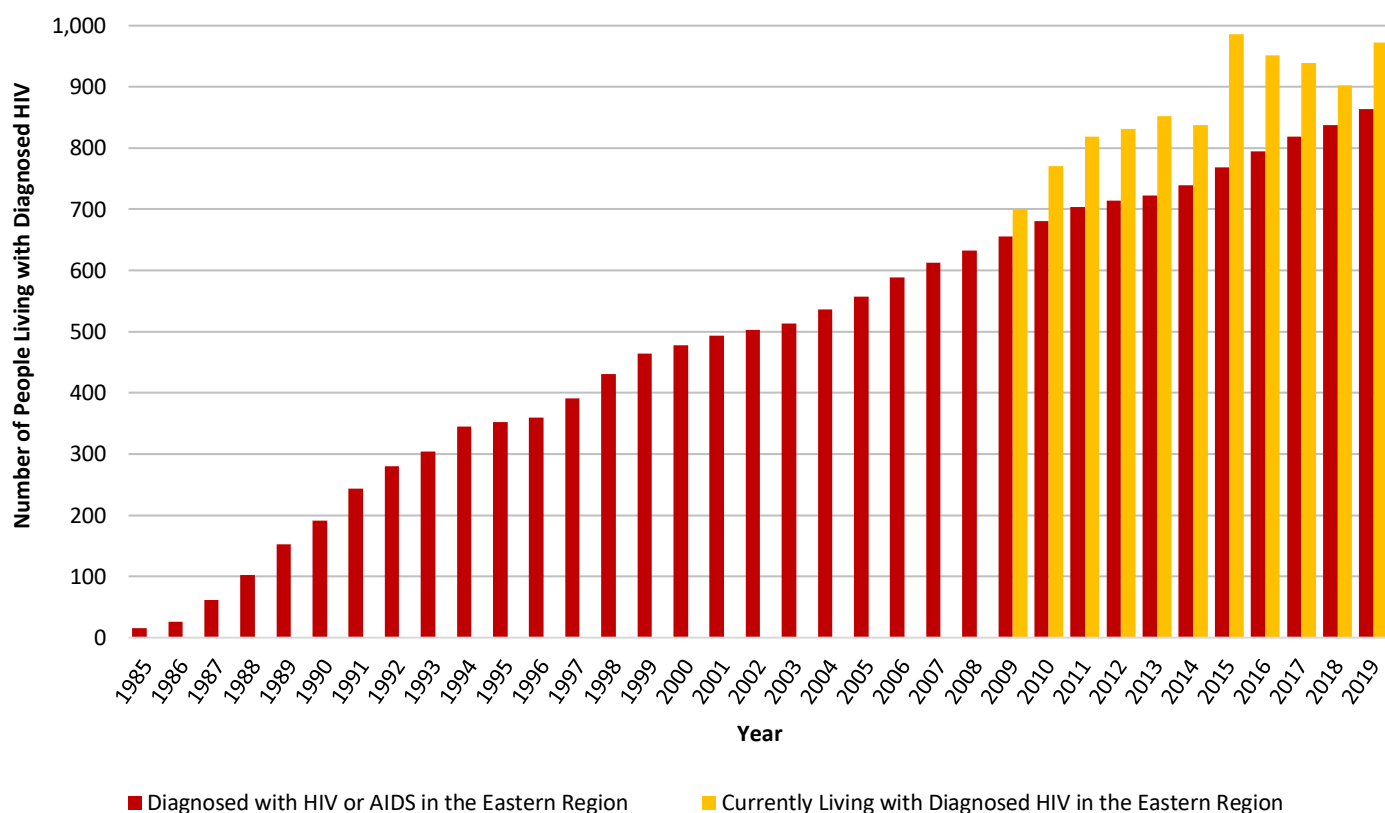


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	9	7	6	2002	36	27	22
1985	20	12	7	2003	46	41	27
1986	18	8	7	2004	45	29	18
1987	45	16	9	2005	47	36	21
1988	48	22	7	2006	49	33	21
1989	73	32	19	2007	35	25	10
1990	54	29	17	2008	37	35	16
1991	81	39	25	2009	41	17	15
1992	65	39	25	2010	40	32	16
1993	62	59	37	2011	46	35	17
1994	82	86	39	2012	27	28	15
1995	71	60	56	2013	30	22	16
1996	51	42	35	2014	33	16	16
1997	54	56	22	2015	39	25	10
1998	66	48	20	2016	42	21	16
1999	62	45	17	2017	32	11	8
2000	37	33	21	2018*	32	14	15
2001	53	51	31	2019*	40	16	8
				Total	36	27	22

*2018-2019 reported AIDS deaths are preliminary

Figure 2 – Trends in People Living with Diagnosed HIV, Among Residents at Diagnosis, 1985-2019, Reported through June 30, 2020

People Living with Diagnosed HIV in the Eastern Region and Not Reported to have Died as of December 31st of Each Year (People who were Diagnosed with HIV or AIDS in the Eastern Region and/or People who are Currently Living with Diagnosed HIV in the Eastern Region) from 1985 through 2019, as Reported through June 30, 2020

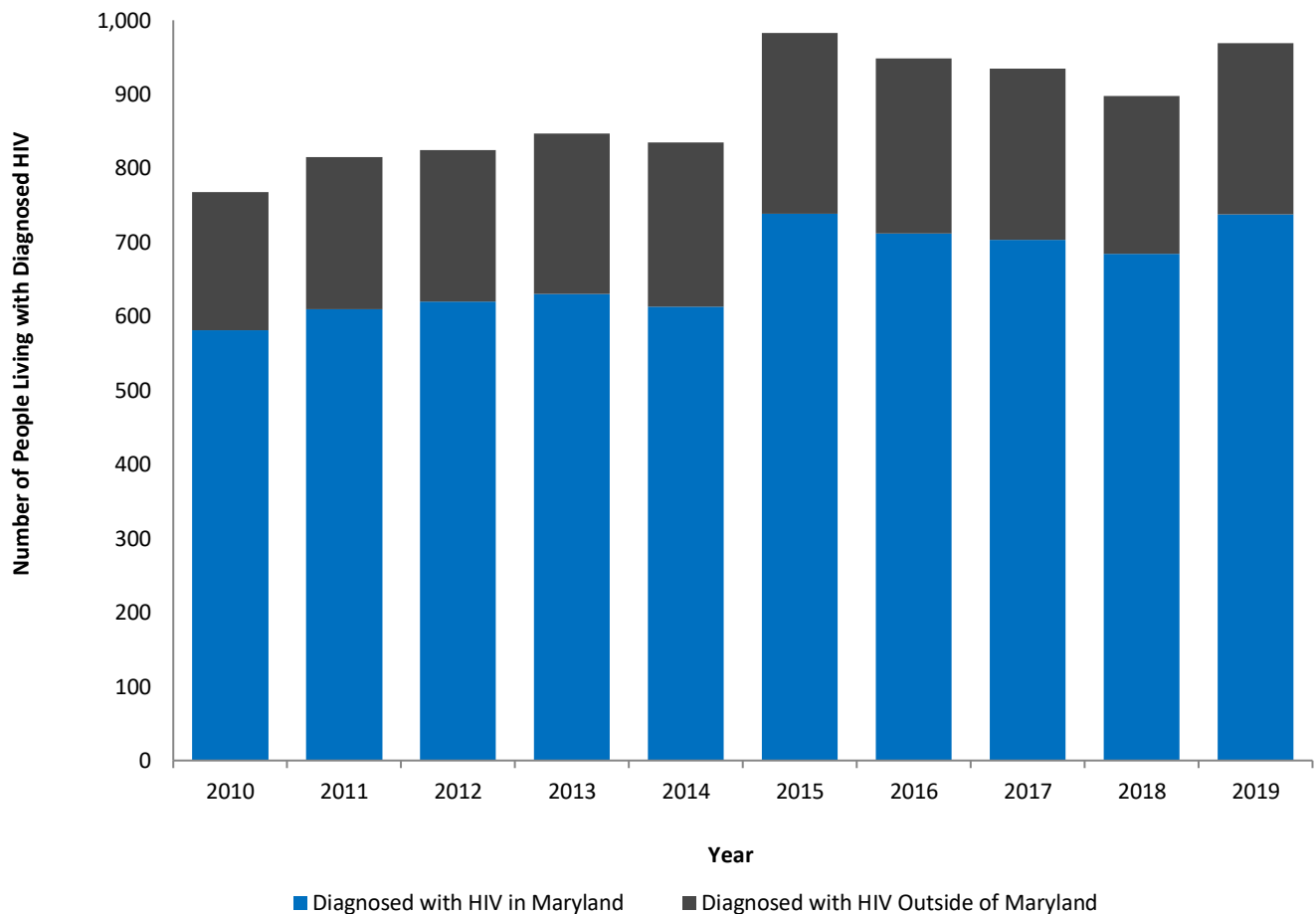


People Living with Diagnosed HIV			People Living with Diagnosed HIV		
Year	Diagnosed with HIV or AIDS in the Eastern Region	Current Residents	Year	Diagnosed with HIV or AIDS in the Eastern Region	Current Residents
1985	15	--	2003	513	--
1986	26	--	2004	536	--
1987	61	--	2005	557	--
1988	102	--	2006	589	--
1989	153	--	2007	613	--
1990	191	--	2008	633	--
1991	243	--	2009	656	700
1992	280	--	2010	681	771
1993	304	--	2011	704	819
1994	345	--	2012	714	831
1995	352	--	2013	722	852
1996	360	--	2014	739	838
1997	391	--	2015	768	986
1998	431	--	2016	795	952
1999	464	--	2017	819	939
2000	478	--	2018	837	902
2001	493	--	2019	864	972
2002	503	--			

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, 2010-2019, Reported through June 30, 2020

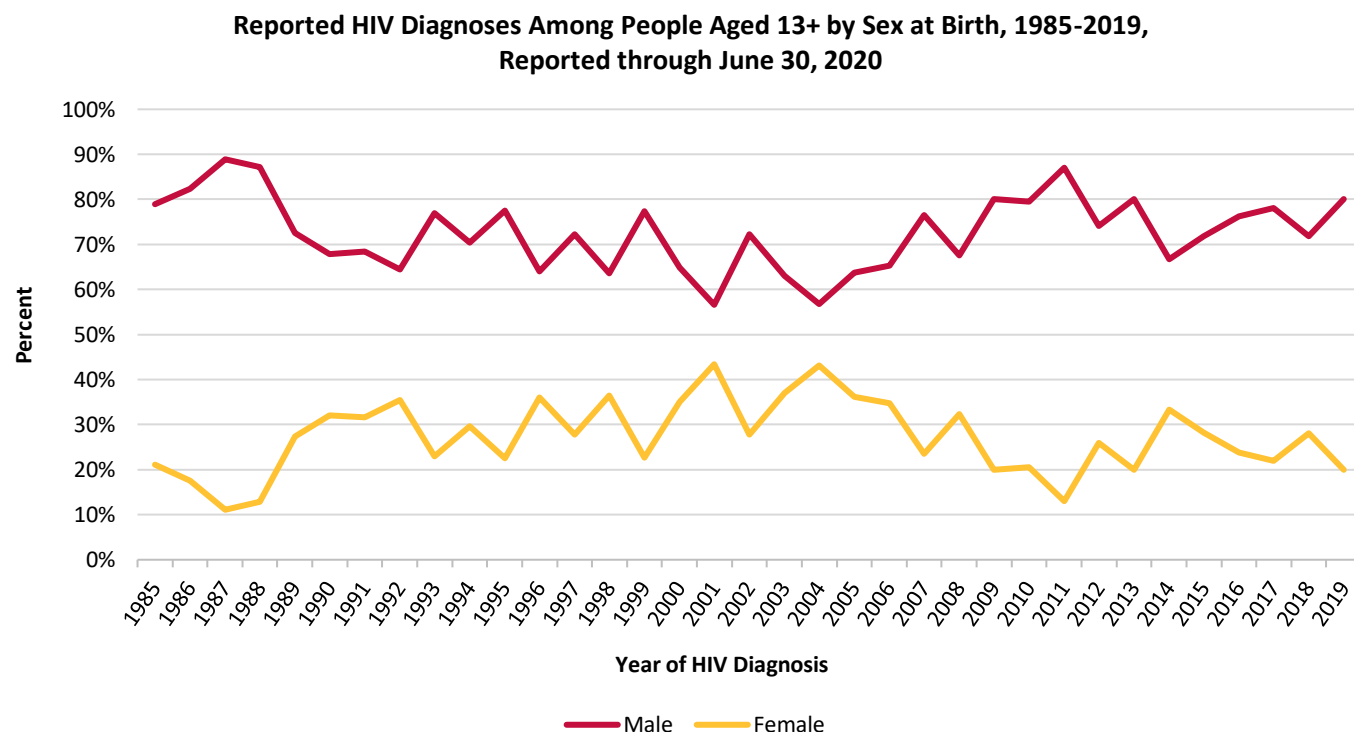
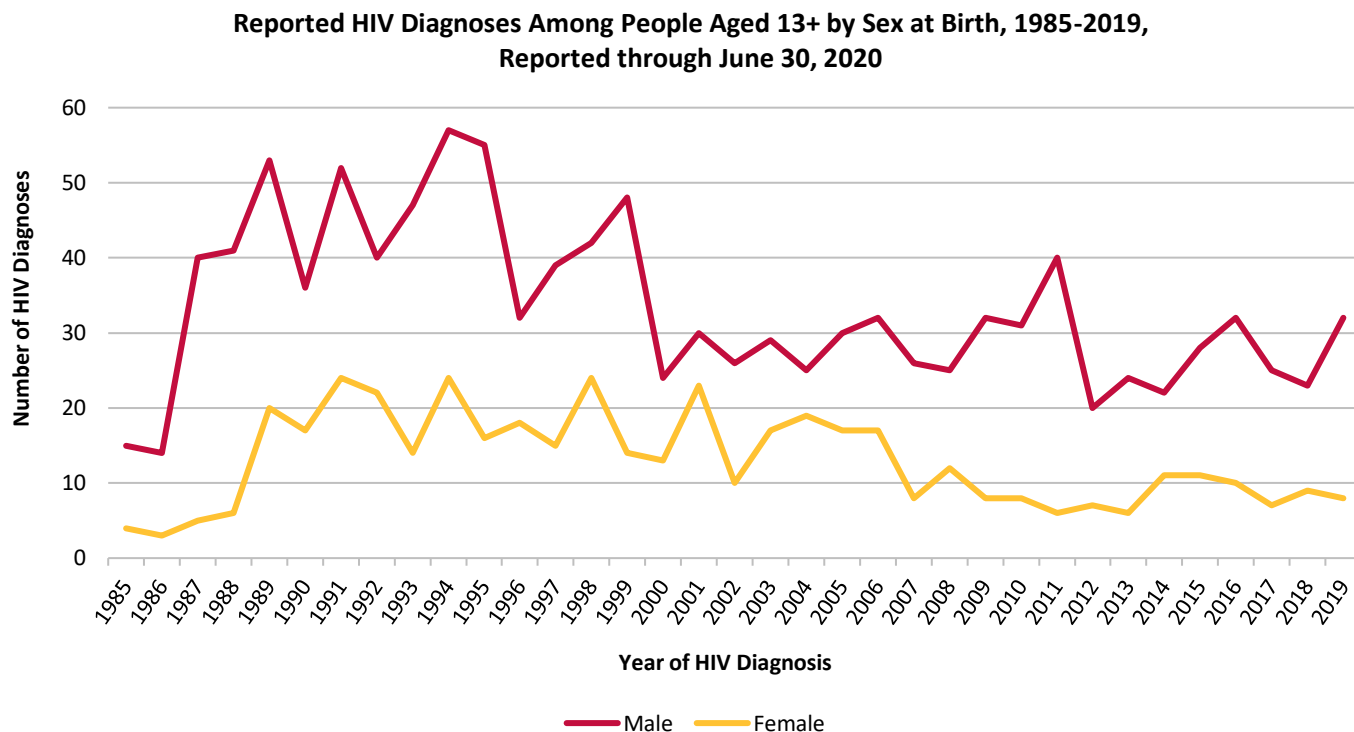
People Living with Diagnosed HIV in the Eastern Region and Not Reported to have Died as of December 31st of Each Year from 2010 through 2019, as Reported through June 30, 2020



Year	Population Age 13+	Eastern 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
2010	379,790	581	187	768	202.2
2011	381,952	610	205	815	213.4
2012	382,634	620	205	825	215.6
2013	383,286	630	217	847	221.0
2014	383,810	613	222	835	217.6
2015	385,035	739	244	983	255.3
2016	385,751	712	236	948	245.8
2017	386,788	703	232	935	241.7
2018	388,535	684	214	898	231.1
2019	390,148	738	231	969	248.4

Figure 4 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2019, Reported through June 30, 2020

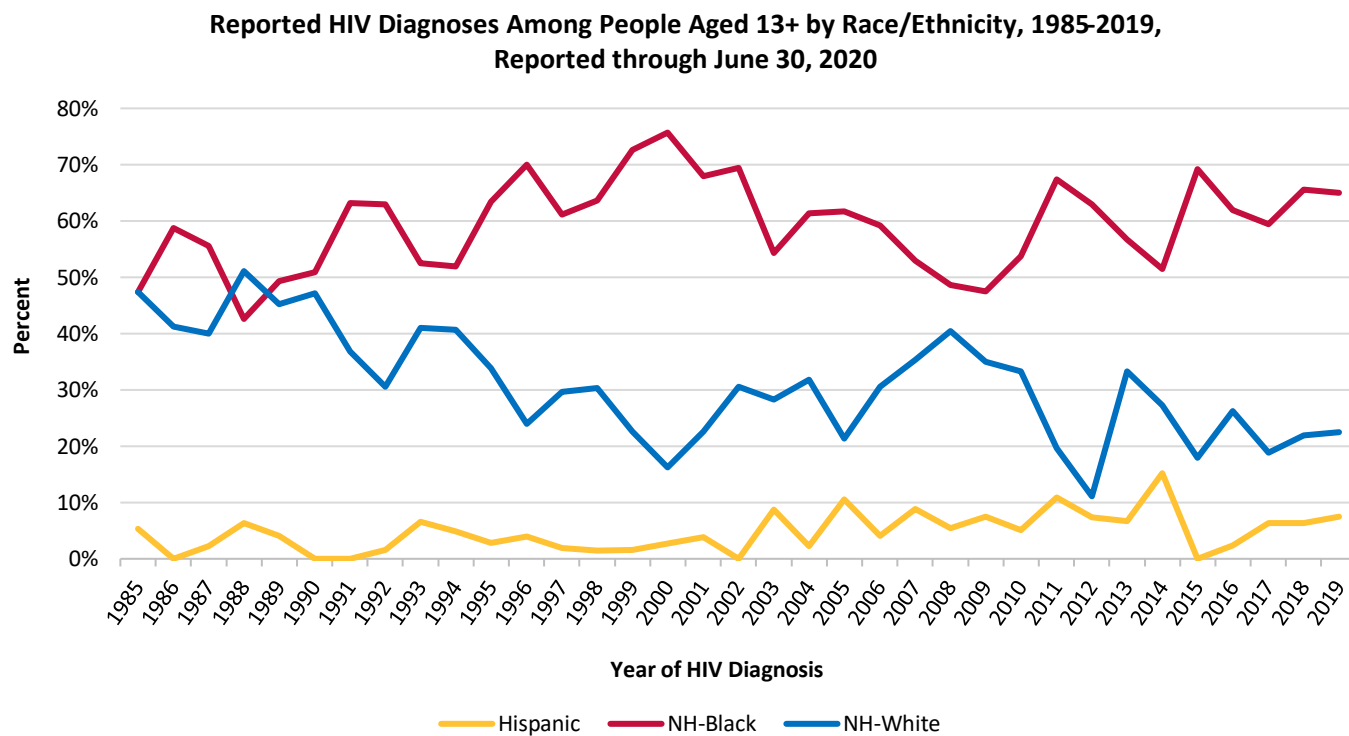
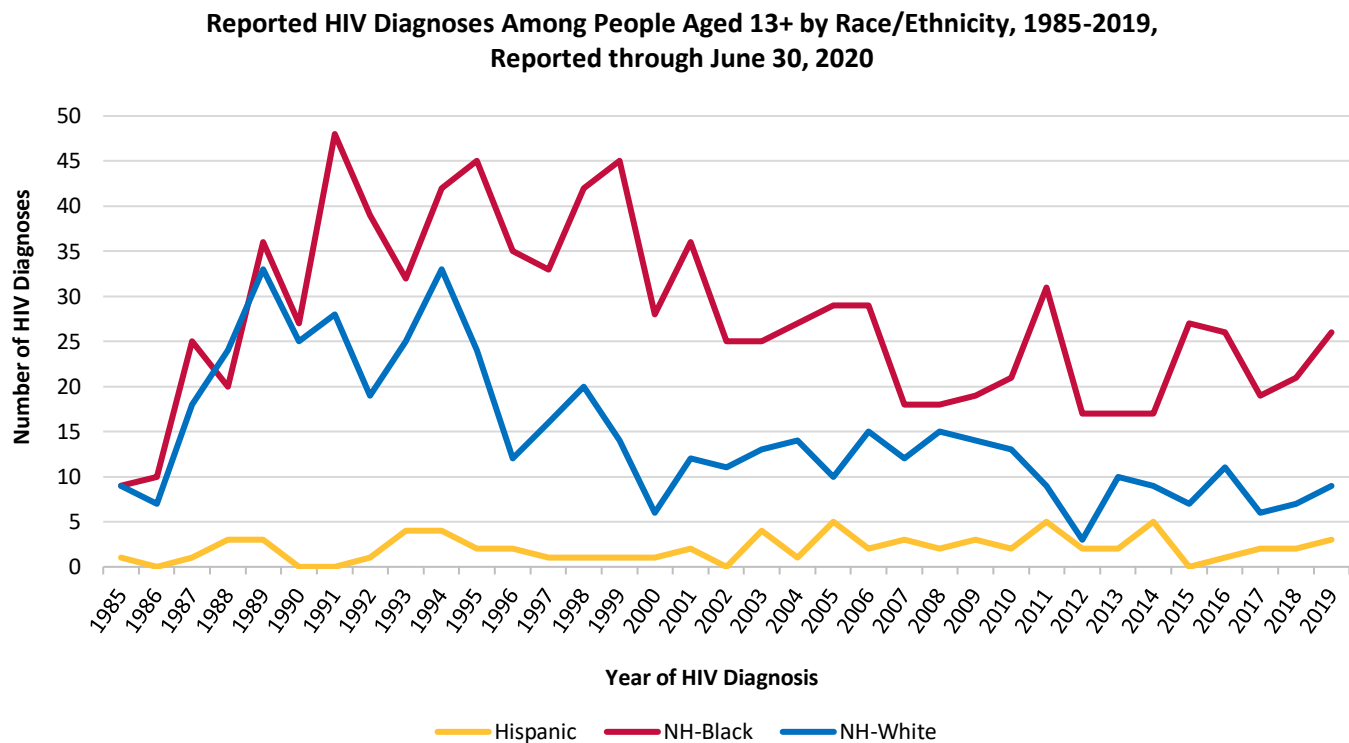
Number and Percent by Sex at Birth of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2019, as Reported through June 30, 2020



Reported HIV Diagnoses Among People Aged 13+					
Year of HIV Diagnosis	Number	Sex at Birth			
		Male		Female	
		Number	Percent	Number	Percent
<1985	9	8	88.9%	1	11.1%
1985	19	15	78.9%	4	21.1%
1986	17	14	82.4%	3	17.6%
1987	45	40	88.9%	5	11.1%
1988	47	41	87.2%	6	12.8%
1989	73	53	72.6%	20	27.4%
1990	53	36	67.9%	17	32.1%
1991	76	52	68.4%	24	31.6%
1992	62	40	64.5%	22	35.5%
1993	61	47	77.0%	14	23.0%
1994	81	57	70.4%	24	29.6%
1995	71	55	77.5%	16	22.5%
1996	50	32	64.0%	18	36.0%
1997	54	39	72.2%	15	27.8%
1998	66	42	63.6%	24	36.4%
1999	62	48	77.4%	14	22.6%
2000	37	24	64.9%	13	35.1%
2001	53	30	56.6%	23	43.4%
2002	36	26	72.2%	10	27.8%
2003	46	29	63.0%	17	37.0%
2004	44	25	56.8%	19	43.2%
2005	47	30	63.8%	17	36.2%
2006	49	32	65.3%	17	34.7%
2007	34	26	76.5%	8	23.5%
2008	37	25	67.6%	12	32.4%
2009	40	32	80.0%	8	20.0%
2010	39	31	79.5%	8	20.5%
2011	46	40	87.0%	6	13.0%
2012	27	20	74.1%	7	25.9%
2013	30	24	80.0%	6	20.0%
2014	33	22	66.7%	11	33.3%
2015	39	28	71.8%	11	28.2%
2016	42	32	76.2%	10	23.8%
2017	32	25	78.1%	7	21.9%
2018	32	23	71.9%	9	28.1%
2019	40	32	80.0%	8	20.0%
Total	1,629	1,175	72.1%	454	27.9%

Figure 5 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2019, Reported through June 30, 2020

Number and Percent by Race/Ethnicity of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2019, as Reported through June 30, 2020

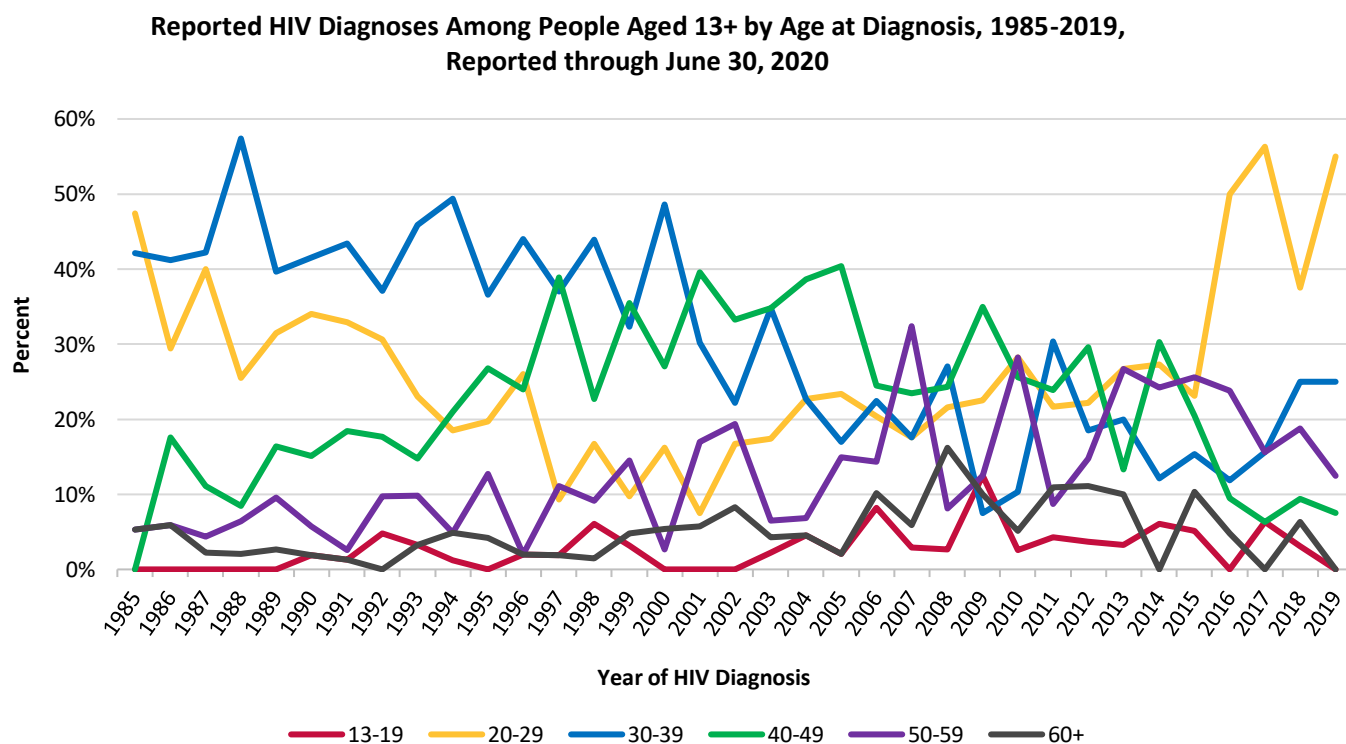
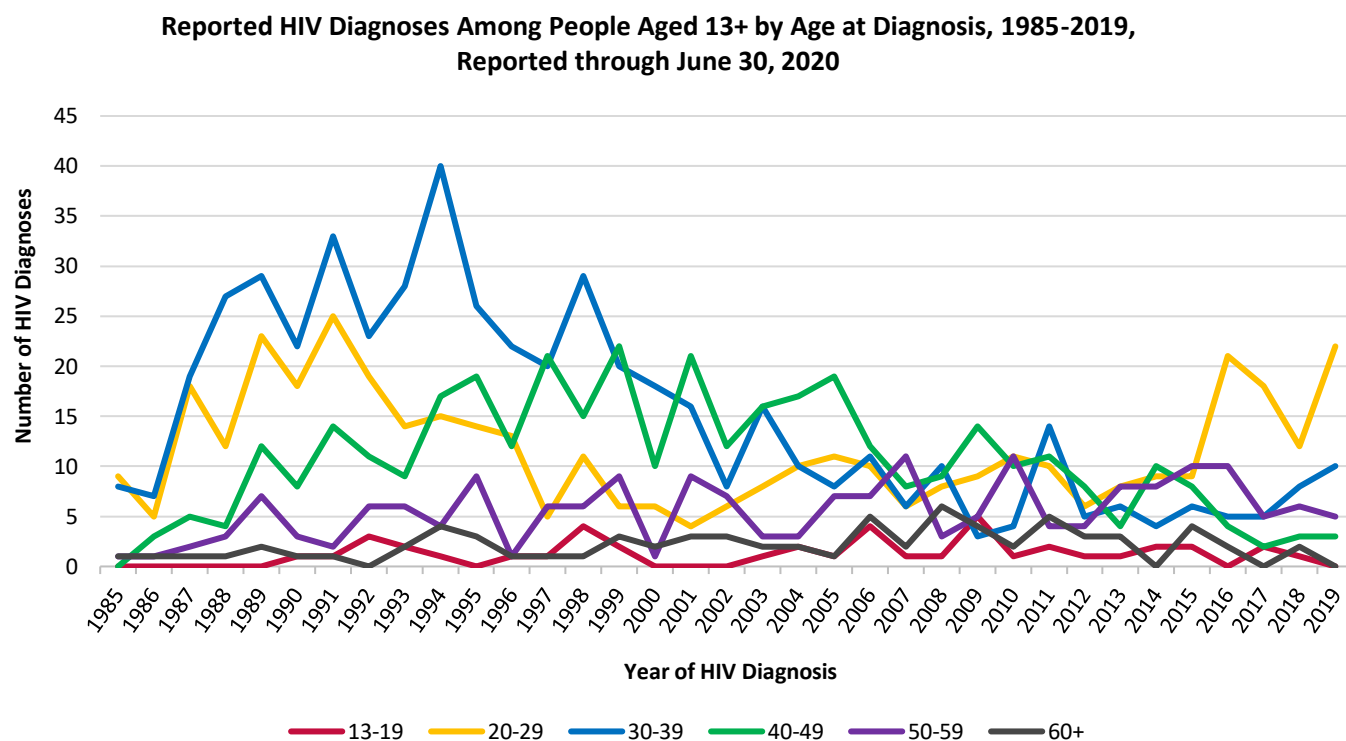


Non-Hispanic Other race not shown

Reported HIV Diagnoses Among People Aged 13+									
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	9	0	0.0%	5	55.6%	4	44.4%	0	0.0%
1985	19	1	5.3%	9	47.4%	9	47.4%	0	0.0%
1986	17	0	0.0%	10	58.8%	7	41.2%	0	0.0%
1987	45	1	2.2%	25	55.6%	18	40.0%	1	2.2%
1988	47	3	6.4%	20	42.6%	24	51.1%	0	0.0%
1989	73	3	4.1%	36	49.3%	33	45.2%	1	1.4%
1990	53	0	0.0%	27	50.9%	25	47.2%	1	1.9%
1991	76	0	0.0%	48	63.2%	28	36.8%	0	0.0%
1992	62	1	1.6%	39	62.9%	19	30.6%	3	4.8%
1993	61	4	6.6%	32	52.5%	25	41.0%	0	0.0%
1994	81	4	4.9%	42	51.9%	33	40.7%	2	2.5%
1995	71	2	2.8%	45	63.4%	24	33.8%	0	0.0%
1996	50	2	4.0%	35	70.0%	12	24.0%	1	2.0%
1997	54	1	1.9%	33	61.1%	16	29.6%	4	7.4%
1998	66	1	1.5%	42	63.6%	20	30.3%	3	4.5%
1999	62	1	1.6%	45	72.6%	14	22.6%	2	3.2%
2000	37	1	2.7%	28	75.7%	6	16.2%	2	5.4%
2001	53	2	3.8%	36	67.9%	12	22.6%	3	5.7%
2002	36	0	0.0%	25	69.4%	11	30.6%	0	0.0%
2003	46	4	8.7%	25	54.3%	13	28.3%	4	8.7%
2004	44	1	2.3%	27	61.4%	14	31.8%	2	4.5%
2005	47	5	10.6%	29	61.7%	10	21.3%	3	6.4%
2006	49	2	4.1%	29	59.2%	15	30.6%	3	6.1%
2007	34	3	8.8%	18	52.9%	12	35.3%	1	2.9%
2008	37	2	5.4%	18	48.6%	15	40.5%	2	5.4%
2009	40	3	7.5%	19	47.5%	14	35.0%	4	10.0%
2010	39	2	5.1%	21	53.8%	13	33.3%	3	7.7%
2011	46	5	10.9%	31	67.4%	9	19.6%	1	2.2%
2012	27	2	7.4%	17	63.0%	3	11.1%	5	18.5%
2013	30	2	6.7%	17	56.7%	10	33.3%	1	3.3%
2014	33	5	15.2%	17	51.5%	9	27.3%	2	6.1%
2015	39	0	0.0%	27	69.2%	7	17.9%	5	12.8%
2016	42	1	2.4%	26	61.9%	11	26.2%	4	9.5%
2017	32	2	6.3%	19	59.4%	6	18.8%	5	15.6%
2018	32	2	6.3%	21	65.6%	7	21.9%	2	6.3%
2019	40	3	7.5%	26	65.0%	9	22.5%	2	5.0%
Total	1,629	71	4.4%	969	59.5%	517	31.7%	72	4.4%

Figure 6 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, 1985-2019, Reported through June 30, 2020

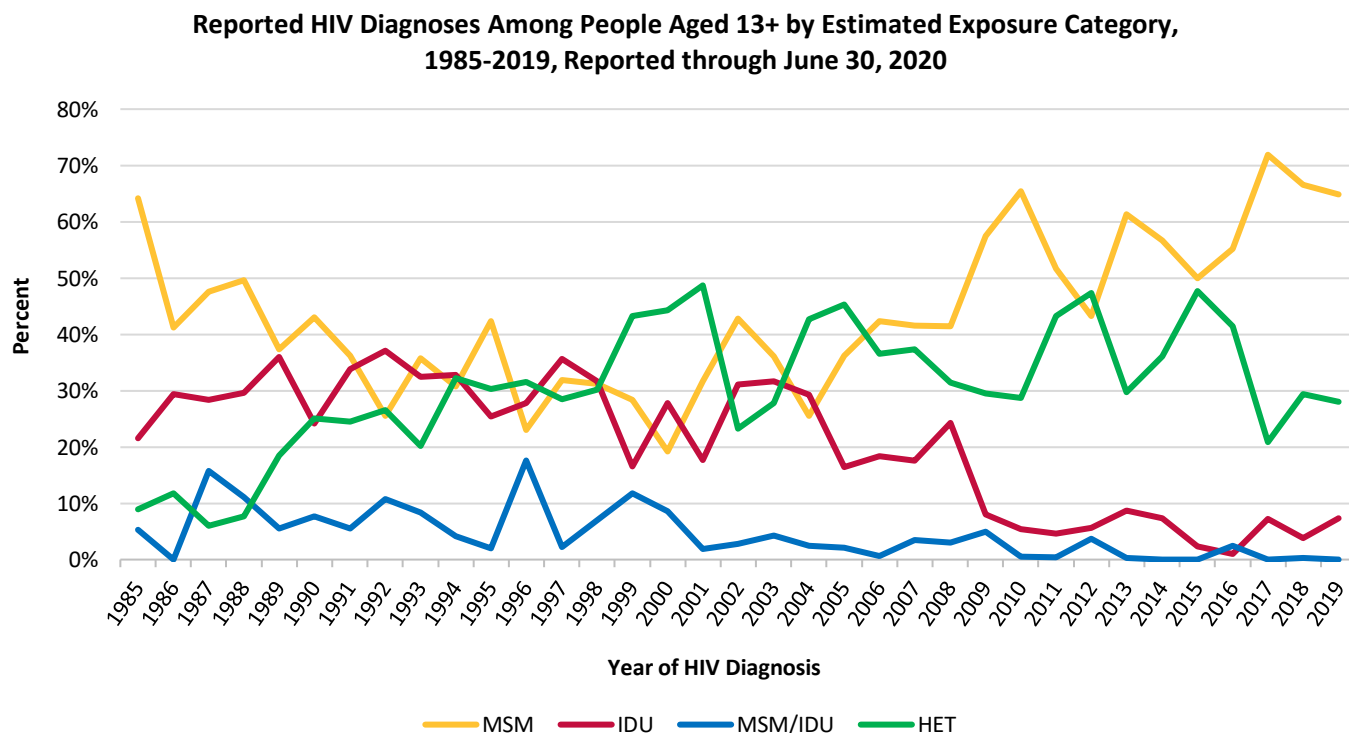
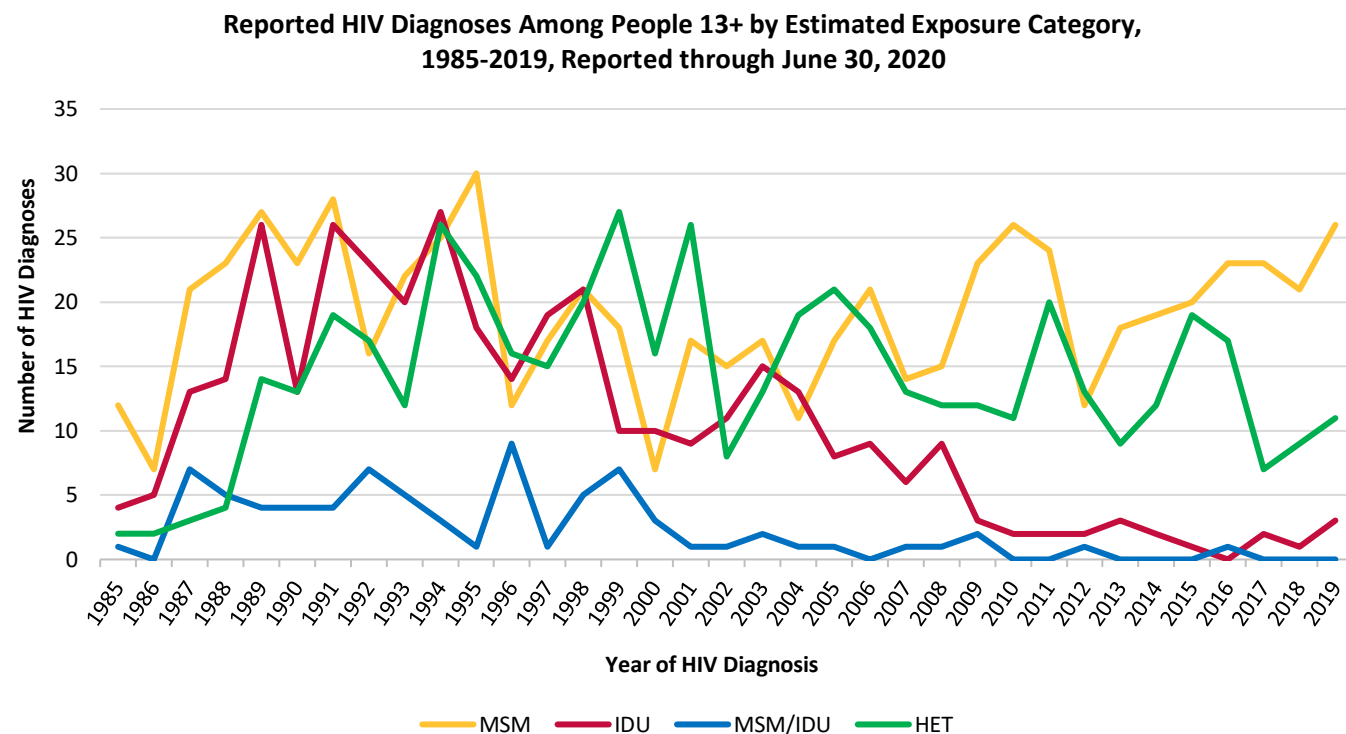
Number and Percent by Age at HIV Diagnosis of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2019, as Reported through June 30, 2020



Reported HIV Diagnoses Among People Aged 13+													
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	9	1	11.1%	3	33.3%	3	33.3%	1	11.1%	1	11.1%	0	0.0%
1985	19	0	0.0%	9	47.4%	8	42.1%	0	0.0%	1	5.3%	1	5.3%
1986	17	0	0.0%	5	29.4%	7	41.2%	3	17.6%	1	5.9%	1	5.9%
1987	45	0	0.0%	18	40.0%	19	42.2%	5	11.1%	2	4.4%	1	2.2%
1988	47	0	0.0%	12	25.5%	27	57.4%	4	8.5%	3	6.4%	1	2.1%
1989	73	0	0.0%	23	31.5%	29	39.7%	12	16.4%	7	9.6%	2	2.7%
1990	53	1	1.9%	18	34.0%	22	41.5%	8	15.1%	3	5.7%	1	1.9%
1991	76	1	1.3%	25	32.9%	33	43.4%	14	18.4%	2	2.6%	1	1.3%
1992	62	3	4.8%	19	30.6%	23	37.1%	11	17.7%	6	9.7%	0	0.0%
1993	61	2	3.3%	14	23.0%	28	45.9%	9	14.8%	6	9.8%	2	3.3%
1994	81	1	1.2%	15	18.5%	40	49.4%	17	21.0%	4	4.9%	4	4.9%
1995	71	0	0.0%	14	19.7%	26	36.6%	19	26.8%	9	12.7%	3	4.2%
1996	50	1	2.0%	13	26.0%	22	44.0%	12	24.0%	1	2.0%	1	2.0%
1997	54	1	1.9%	5	9.3%	20	37.0%	21	38.9%	6	11.1%	1	1.9%
1998	66	4	6.1%	11	16.7%	29	43.9%	15	22.7%	6	9.1%	1	1.5%
1999	62	2	3.2%	6	9.7%	20	32.3%	22	35.5%	9	14.5%	3	4.8%
2000	37	0	0.0%	6	16.2%	18	48.6%	10	27.0%	1	2.7%	2	5.4%
2001	53	0	0.0%	4	7.5%	16	30.2%	21	39.6%	9	17.0%	3	5.7%
2002	36	0	0.0%	6	16.7%	8	22.2%	12	33.3%	7	19.4%	3	8.3%
2003	46	1	2.2%	8	17.4%	16	34.8%	16	34.8%	3	6.5%	2	4.3%
2004	44	2	4.5%	10	22.7%	10	22.7%	17	38.6%	3	6.8%	2	4.5%
2005	47	1	2.1%	11	23.4%	8	17.0%	19	40.4%	7	14.9%	1	2.1%
2006	49	4	8.2%	10	20.4%	11	22.4%	12	24.5%	7	14.3%	5	10.2%
2007	34	1	2.9%	6	17.6%	6	17.6%	8	23.5%	11	32.4%	2	5.9%
2008	37	1	2.7%	8	21.6%	10	27.0%	9	24.3%	3	8.1%	6	16.2%
2009	40	5	12.5%	9	22.5%	3	7.5%	14	35.0%	5	12.5%	4	10.0%
2010	39	1	2.6%	11	28.2%	4	10.3%	10	25.6%	11	28.2%	2	5.1%
2011	46	2	4.3%	10	21.7%	14	30.4%	11	23.9%	4	8.7%	5	10.9%
2012	27	1	3.7%	6	22.2%	5	18.5%	8	29.6%	4	14.8%	3	11.1%
2013	30	1	3.3%	8	26.7%	6	20.0%	4	13.3%	8	26.7%	3	10.0%
2014	33	2	6.1%	9	27.3%	4	12.1%	10	30.3%	8	24.2%	0	0.0%
2015	39	2	5.1%	9	23.1%	6	15.4%	8	20.5%	10	25.6%	4	10.3%
2016	42	0	0.0%	21	50.0%	5	11.9%	4	9.5%	10	23.8%	2	4.8%
2017	32	2	6.3%	18	56.3%	5	15.6%	2	6.3%	5	15.6%	0	0.0%
2018	32	1	3.1%	12	37.5%	8	25.0%	3	9.4%	6	18.8%	2	6.3%
2019	40	0	0.0%	22	55.0%	10	25.0%	3	7.5%	5	12.5%	0	0.0%
Total	1,629	44	2.7%	414	25.4%	529	32.5%	374	23.0%	194	11.9%	74	4.5%

Figure 7 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2019, Reported through June 30, 2020

Number and Percent by Estimated Exposure Category[§] of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2019, as Reported through June 30, 2020



Other exposure category not shown

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

Reported HIV Diagnoses Among People Aged 13+												
Year of HIV Diagnosis	No.	% with No Reported Exposure [§]	Estimated Exposure Category [§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	9	22.2%	5	51.1%	1	11.1%	1	15.6%	1	11.1%	1	11.1%
1985	19	5.3%	12	64.2%	4	21.6%	1	5.3%	2	8.9%	0	0.0%
1986	17	0.0%	7	41.2%	5	29.4%	0	0.0%	2	11.8%	3	17.6%
1987	45	8.9%	21	47.6%	13	28.4%	7	15.8%	3	6.0%	1	2.2%
1988	47	8.5%	23	49.6%	14	29.6%	5	11.1%	4	7.7%	1	2.1%
1989	73	2.7%	27	37.3%	26	36.0%	4	5.5%	14	18.5%	2	2.7%
1990	53	5.7%	23	43.0%	13	24.2%	4	7.7%	13	25.1%	0	0.0%
1991	76	5.3%	28	36.2%	26	33.8%	4	5.5%	19	24.5%	0	0.0%
1992	62	8.1%	16	25.5%	23	37.1%	7	10.8%	17	26.6%	0	0.0%
1993	61	9.8%	22	35.7%	20	32.5%	5	8.4%	12	20.2%	2	3.3%
1994	81	12.3%	25	30.7%	27	32.8%	3	4.2%	26	32.2%	0	0.0%
1995	71	11.3%	30	42.4%	18	25.4%	1	2.0%	22	30.3%	0	0.0%
1996	50	12.0%	12	23.0%	14	27.8%	9	17.6%	16	31.6%	0	0.0%
1997	54	9.3%	17	31.9%	19	35.6%	1	2.2%	15	28.5%	1	1.9%
1998	66	15.2%	21	31.2%	21	31.7%	5	7.0%	20	30.2%	0	0.0%
1999	62	8.1%	18	28.4%	10	16.6%	7	11.8%	27	43.2%	0	0.0%
2000	37	8.1%	7	19.2%	10	27.8%	3	8.6%	16	44.3%	0	0.0%
2001	53	5.7%	17	31.7%	9	17.7%	1	1.9%	26	48.7%	0	0.0%
2002	36	22.2%	15	42.8%	11	31.1%	1	2.8%	8	23.3%	0	0.0%
2003	46	10.9%	17	36.1%	15	31.7%	2	4.3%	13	27.8%	0	0.0%
2004	44	13.6%	11	25.5%	13	29.3%	1	2.5%	19	42.7%	0	0.0%
2005	47	23.4%	17	36.2%	8	16.4%	1	2.1%	21	45.3%	0	0.0%
2006	49	14.3%	21	42.4%	9	18.4%	0	0.6%	18	36.5%	1	2.0%
2007	34	20.6%	14	41.5%	6	17.6%	1	3.5%	13	37.4%	0	0.0%
2008	37	27.0%	15	41.4%	9	24.3%	1	3.0%	12	31.4%	0	0.0%
2009	40	17.5%	23	57.5%	3	8.0%	2	5.0%	12	29.5%	0	0.0%
2010	39	25.6%	26	65.4%	2	5.4%	0	0.5%	11	28.7%	0	0.0%
2011	46	17.4%	24	51.7%	2	4.6%	0	0.4%	20	43.3%	0	0.0%
2012	27	14.8%	12	43.3%	2	5.6%	1	3.7%	13	47.4%	0	0.0%
2013	30	13.3%	18	61.3%	3	8.7%	0	0.3%	9	29.7%	0	0.0%
2014	33	21.2%	19	56.7%	2	7.3%	0	0.0%	12	36.1%	0	0.0%
2015	39	12.8%	20	50.0%	1	2.3%	0	0.0%	19	47.7%	0	0.0%
2016	42	9.5%	23	55.2%	0	1.0%	1	2.4%	17	41.4%	0	0.0%
2017	32	6.3%	23	71.9%	2	7.2%	0	0.0%	7	20.9%	0	0.0%
2018	32	6.3%	21	66.6%	1	3.8%	0	0.3%	9	29.4%	0	0.0%
2019	40	17.5%	26	64.8%	3	7.3%	0	0.0%	11	28.0%	0	0.0%
Total	1,629	12.0%	676	41.5%	365	22.4%	79	4.8%	499	30.6%	12	0.7%

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

*Percent with no reported exposure prior to multiple imputation adjustment.

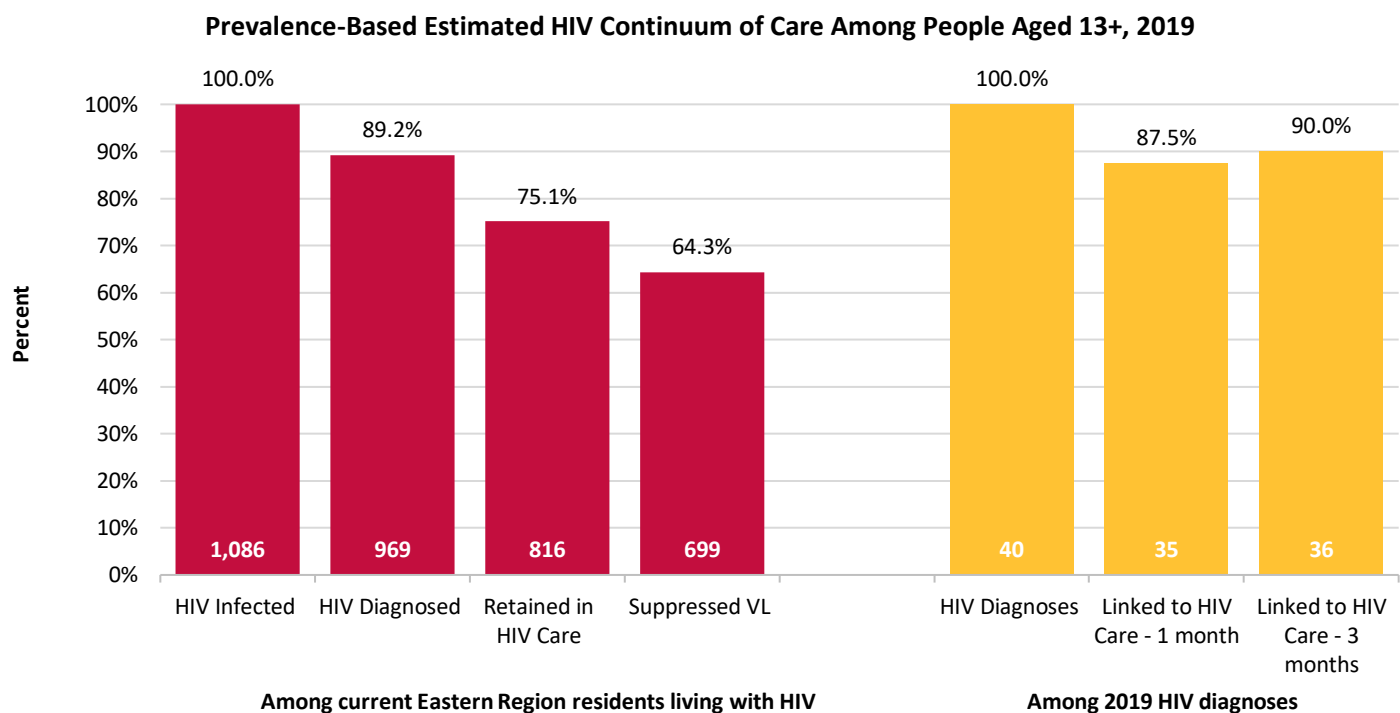
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of people missing transmission category after multiple imputation.

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 2019 HIV Continuum of Care Cascades, Among Current Eastern Region Residents Aged 13+, Reported through June 30, 2020

The prevalence-based Eastern Region Engagement in HIV Care Cascades (below) apply the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 30, 2020, to estimate the number of people living with undiagnosed HIV (10.8 percent) and the estimated number of people living with HIV currently residing in the Eastern Region. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Eastern Region on December 31, 2019 and the number and percentage of new HIV diagnoses in 2019 who belong to each of the stages of engagement in HIV care.

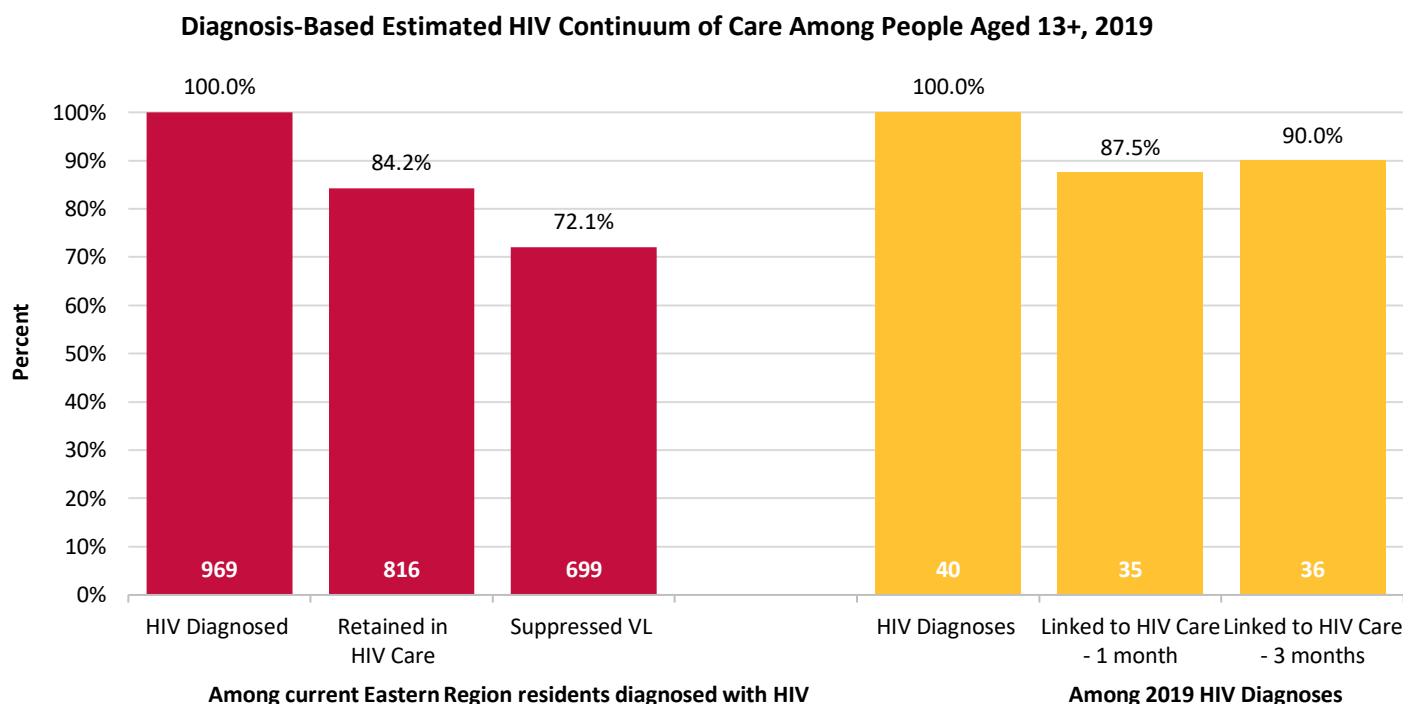


Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2019 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected	1,086	100.0%	New HIV Diagnoses	40	100.0%
HIV Diagnosed	969	89.2%	Linked to HIV Care – 1 Month	35	87.5%
Retained in HIV Care	816	75.1%	Linked to HIV Care – 3 Months	36	90.0%
Suppressed VL	699	64.3%			

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 2019 HIV Continuum of Care Cascades, Among Current Eastern Region Residents Aged 13+, Reported through June 30, 2020

The diagnosis-based Eastern Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Eastern Region residents to describe the number and percentage of persons living with diagnosed HIV in the Eastern Region on December 31, 2019 and the number and percentage of new HIV diagnoses in 2019 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 2019 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Diagnosed	969	100.0%	New HIV Diagnoses	40	100.0%
Retained in HIV Care	816	84.2%	Linked to HIV Care – 1 Month	35	87.5%
Suppressed VL	699	72.1%	Linked to HIV Care – 3 Months	36	90.0%

Section IV – By Jurisdiction

Table 1 – Reported HIV Diagnoses and Reported AIDS Diagnoses, Among People Aged 13+ During 2019, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2020

Jurisdiction of Residence at Diagnosis	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+			Reported AIDS Diagnoses Among People Aged 13+		
		No.	% of Total	Rate	No.	% of Total	Rate
Caroline	27,787	3	7.5%	10.8	0	0.0%	0.0
Cecil	86,690	7	17.5%	8.1	0	0.0%	0.0
Dorchester	27,165	2	5.0%	7.4	0	0.0%	0.0
Kent	17,295	3	7.5%	17.3	3	18.8%	17.3
Queen Anne's	42,995	3	7.5%	7.0	0	0.0%	0.0
Somerset	22,450	0	0.0%	0.0	0	0.0%	0.0
Talbot	32,407	0	0.0%	0.0	0	0.0%	0.0
Wicomico	87,334	20	50.0%	22.9	12	75.0%	13.7
Worcester	46,024	2	5.0%	4.3	1	6.3%	2.2
Total	390,148	40	100.0%	11.9	16	100.0%	10.6

Table 2 – Reported HIV Diagnoses, Among People Aged 13+ During 2019, Linked to Care, Late Diagnosis, First CD4 Test Result, and Mean Years from HIV Diagnosis by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2020

Jurisdiction of Residence at HIV Diagnosis	Reported HIV Diagnoses Among People Aged 13+					
	No.	Linked to Care		% Late HIV Diagnoses	First CD4 Test Result	
		% 1 month	% 3 months		% with Test	Median Count
Caroline	3	***	***	***	***	***
Cecil	7	71.4%	71.4%	0.0%	71.4%	525
Dorchester	2	***	***	***	***	***
Kent	3	***	***	***	***	***
Queen Anne's	3	***	***	***	***	***
Somerset	0	--	--	--	--	--
Talbot	0	--	--	--	--	--
Wicomico	20	90.0%	90.0%	30.0%	90.0%	445
Worcester	2	***	***	***	***	***
Total	40	87.5%	90.0%	25.0%	90.0%	434

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

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2020

Jurisdiction of Residence	Population Age 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)	
Caroline	27,787	68	7.9%	244.7	409	66	6.8%	237.5	421	-2.9%
Cecil	86,690	122	14.2%	140.7	711	142	14.7%	163.8	610	16.4%
Dorchester	27,165	131	15.2%	482.2	207	148	15.3%	544.8	184	13.0%
Kent	17,295	38	4.4%	219.7	455	46	4.7%	266.0	376	21.1%
Queen Anne's	42,995	52	6.0%	120.9	827	57	5.9%	132.6	754	9.6%
Somerset	22,450	60	7.0%	267.3	374	104	10.7%	463.2	216	73.3%
Talbot	32,407	65	7.5%	200.6	499	75	7.7%	231.4	432	15.4%
Wicomico	87,334	250	29.0%	286.3	349	264	27.2%	302.3	331	5.6%
Worcester	46,024	76	8.8%	165.1	606	67	6.9%	145.6	687	-11.8%
Total	390,148	862	100.0%	220.9	453	969	100.0%	248.4	403	12.4%

Table 4 – CD4 Test Results During 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Jurisdiction of Current Residence, Reported through June 30, 2020

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV								
	No.	Recent CD4 Test Result				<200	200-349	350-499	500+
		No. with Test	% with Test	Median Count					
Caroline	66	60	90.9%	694		1.7%	11.7%	5.0%	81.7%
Cecil	142	90	63.4%	606		10.0%	6.7%	18.9%	64.4%
Dorchester	148	119	80.4%	647		4.2%	16.0%	14.3%	65.5%
Kent	46	41	89.1%	683		4.9%	7.3%	4.9%	82.9%
Queen Anne's	57	39	68.4%	729		10.3%	5.1%	12.8%	71.8%
Somerset	104	93	89.4%	619		6.5%	10.8%	12.9%	69.9%
Talbot	75	65	86.7%	524		12.3%	15.4%	18.5%	53.8%
Wicomico	264	217	82.2%	562		12.0%	13.8%	17.1%	57.1%
Worcester	67	56	83.6%	628		3.6%	10.7%	17.9%	67.9%
Total	969	780	80.5%	620		8.1%	11.9%	14.7%	65.3%

Table 5 – Viral Load Test Results During 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Jurisdiction of Current Residence, Reported through June 30, 2020

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Caroline	66	57	86.4%	96.5%	1,560
Cecil	142	94	66.2%	85.1%	3,995
Dorchester	148	119	80.4%	93.3%	6,895
Kent	46	42	91.3%	81.0%	6,350
Queen Anne's	57	43	75.4%	90.7%	8,220
Somerset	104	94	90.4%	89.4%	3,785
Talbot	75	63	84.0%	90.5%	6,395
Wicomico	264	218	82.6%	85.3%	18,640
Worcester	67	56	83.6%	94.6%	15,000
Total	969	786	81.1%	88.9%	9,020

Section V – By Age

Table 6 – Reported HIV Diagnoses During 2019, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2020

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 month	% 3 months		% with Test	Median Count
<5 (Pediatric)	24,332	0	0.0%	0.0	--	--	--	--	--
5-12 (Pediatric)	42,195	0	0.0%	0.0	--	--	--	--	--
13-19	41,272	0	0.0%	0.0	--	--	--	--	--
20-29	58,075	22	55.0%	37.9	90.9%	90.9%	27.3%	90.9%	453
30-39	51,283	10	25.0%	19.5	90.0%	90.0%	***	90.0%	433
40-49	50,663	3	7.5%	5.9	***	***	***	***	***
50-59	64,467	5	12.5%	7.8	***	***	***	***	***
60+	124,388	0	0.0%	0.0	--	--	--	--	--
Total	456,675	40	100.0%	8.8	87.5%	90.0%	25.0%	90.0%	434

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

Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2019, by Age on December 31, 2019, Reported through June 30, 2020

Age on December 31, 2019	Population	Total People Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
<5 (Pediatric)	24,332	0	0.0%	0.0	--
5-12 (Pediatric)	42,195	3	0.3%	7.1	14,065
13-19	41,272	2	0.2%	4.8	20,636
20-29	58,075	100	10.3%	172.2	581
30-39	51,283	140	14.4%	273.0	366
40-49	50,663	167	17.2%	329.6	303
50-59	64,467	325	33.4%	504.1	198
60+	124,388	235	24.2%	188.9	529
Total	456,675	972	100.0%	212.8	470

Table 8 – CD4 Test Results During 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Age on December 31, 2019, Reported through June 30, 2020

Age on December 31, 2019	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	100	***	***	***	***	***	***	***
30-39	140	110	78.6%	639	10.9%	9.1%	17.3%	62.7%
40-49	167	130	77.8%	577	9.2%	16.2%	13.1%	61.5%
50-59	325	260	80.0%	611	8.1%	13.5%	13.5%	65.0%
60+	235	197	83.8%	650	6.6%	9.1%	17.3%	67.0%
Total	969	780	80.5%	620	8.1%	11.9%	14.7%	65.3%

Table 9 – Viral Load Test Results During 2019 for People Living with Diagnosed HIV, Alive on December 31, 2019, by Age on December 31, 2019, Reported through June 30, 2020

Age on December 31, 2019	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
13-19	2	***	***	***	***
20-29	100	***	***	***	***
30-39	140	111	79.3%	81.1%	12,730
40-49	167	129	77.2%	89.1%	21,140
50-59	325	265	81.5%	92.5%	4,015
60+	235	194	82.6%	94.8%	8,220
Total	969	786	81.1%	88.9%	9,020

Section VI – By Demographics

Table 10 – Reported HIV Diagnoses, Among People Aged 13+ During 2019, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2020

Demographic Characteristics	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 month	% 3 months	%	% with Test	Median Count
Sex at Birth									
Male	188,650	32	80.0%	17.0	90.6%	93.8%	***	93.8%	431
Female	201,499	8	20.0%	4.0	75.0%	75.0%	***	75.0%	440
Gender									
Male	188,650	31	77.5%	16.4	90.3%	93.5%	29.0%	93.5%	428
Female	201,499	8	20.0%	4.0	***	***	***	***	***
Transfeminine	--	1	2.5%	0.0	***	***	***	***	***
Transmasculine	--	0	0.0%	0.0	--	--	--	--	--
Another Gender Identity	--	0	0.0%	0.0	--	--	--	--	--
Race/Ethnicity									
Hispanic	16,713	3	7.5%	17.9	***	***	***	***	***
Non-Hispanic	373,435	37	92.5%	9.9	86.5%	89.2%	21.6%	89.2%	434
American Indian/Alaska Native, only	1,066	0	0.0%	0.0	--	--	--	--	--
Asian, only	6,343	0	0.0%	0.0	--	--	--	--	--
Black, only	62,945	26	65.0%	41.3	88.5%	88.5%	30.8%	88.5%	278
Native Hawaiian/Other Pacific Islander, only	151	0	0.0%	0.0	--	--	--	--	--
White, only	296,833	9	22.5%	3.0	77.8%	88.9%	0.0%	88.9%	510
Multiracial/Other	6,098	2	5.0%	32.8	***	***	***	***	***
Total	390,148	40	100.0%	10.3	87.5%	90.0%	25.0%	90.0%	434
Country of Birth									
United States	363,189	29	72.5%	8.0	89.7%	93.1%	17.2%	93.1%	456
Foreign-Born	22,418	8	20.0%	35.7	75.0%	75.0%	***	75.0%	89
Africa	--	1	2.5%	--	***	***	***	***	***
Asia	--	0	0.0%	--	--	--	--	--	--
Caribbean	--	6	15.0%	--	***	***	***	***	***
Central America	--	1	2.5%	--	***	***	***	***	***
Other	--	0	0.0%	--	--	--	--	--	--
Unknown	--	3	7.5%	--	***	***	***	***	***
Total	385,607	40	100.0%	10.4	87.5%	90.0%	25.0%	90.0%	434

Note. Population data by sex at birth, age, and race/ethnicity are from the 2019 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2018 American Community Survey.

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

Table 11 – Reported HIV Diagnoses, Among People Aged 13+ During 2019, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2020

Reported HIV Diagnoses Among People Aged 13+								
Race/Ethnicity	Sex at Birth							
	Male				Female			
	Population 13+	No.	% of Total	Rate	Population 13+	No.	% of Total	Rate
Hispanic	8,672	3	9.4%	34.6	8,041	0	0.0%	0.0
Non-Hispanic	179,978	29	90.6%	16.1	193,457	8	100.0%	16.1
American Indian/Alaska Native, only	541	0	0.0%	0.0	525	0	0.0%	0.0
Asian, only	2,838	0	0.0%	0.0	3,505	0	0.0%	0.0
Black, only	30,464	21	65.6%	68.9	32,481	5	62.5%	15.4
Native Hawaiian/Other Pacific Islander, only	87	0	0.0%	0.0	64	0	0.0%	0.0
White, only	143,156	6	18.8%	4.2	153,678	3	37.5%	2.0
Multiracial/Other	2,892	2	6.3%	69.1	3,205	0	0.0%	0.0
Total	188,650	32	100.0%	17.0	201,499	8	100.0%	17.0

Note. Population data by sex at birth, age, and race/ethnicity are from the 2019 U.S. Census population estimates.

Table 12 – People Aged 13+ Living with Diagnosed HIV Alive on December 31, 2019, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2020

Demographic Characteristics	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
Sex at Birth					
Male	188,650	676	69.8%	358.3	279
Female	201,499	293	30.2%	145.4	688
Gender					
Male	188,650	669	69.0%	354.6	282
Female	201,499	292	30.1%	144.9	690
Transfeminine	--	6	0.6%	--	--
Transmasculine	--	1	0.1%	--	--
Another Gender Identity	--	1	0.1%	--	--
Race/Ethnicity					
Hispanic	16,713	57	5.9%	341.0	293
Non-Hispanic	373,435	912	94.1%	244.2	409
American Indian/Alaska Native, only	1,066	0	0.0%	0.0	--
Asian, only	6,343	4	0.4%	63.1	1,586
Black, only	62,945	556	57.4%	883.3	113
Native Hawaiian/Other Pacific Islander, only	151	0	0.0%	0.0	--
White, only	296,833	279	28.8%	94.0	1,064
Multiracial/Other	6,098	73	7.5%	1,197.2	84
Total	390,148	969	100.0%	248.4	403
Country of Birth					
United States	363,189	879	90.7%	242.0	413
Foreign-Born	22,418	76	7.8%	339.0	295
Africa	--	16	1.7%	--	--
Asia	--	1	0.1%	--	--
Caribbean	--	38	3.9%	--	--
Central America	--	16	1.7%	--	--
Other	--	5	0.5%	--	--
Unknown	--	14	1.4%	--	--
Total	385,607	969	100.0%	251.3	398

Note. Population data by sex at birth, age, and race/ethnicity are from the 2019 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2018 American Community Survey.

Table 13 – People Aged 13+ Living with Diagnosed HIV Alive on December 31, 2019, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2020

Total People Aged 13+ Living with Diagnosed HIV								
Race/Ethnicity	Sex at Birth							
	Male				Female			
	Population 13+	No.	% of Total	Rate	Population 13+	No.	% of Total	Rate
Hispanic	8,672	41	6.1%	472.8	8,041	16	5.5%	199.0
Non-Hispanic	179,978	635	93.9%	352.8	193,457	277	94.5%	143.2
American Indian/Alaska Native, only	541	0	0.0%	0.0	525	0	0.0%	0.0
Asian, only	2,838	4	0.6%	140.9	3,505	0	0.0%	0.0
Black, only	30,464	360	53.3%	1,181.7	32,481	196	66.9%	603.4
Native Hawaiian/Other Pacific Islander, only	87	0	0.0%	0.0	64	0	0.0%	0.0
White, only	143,156	221	32.7%	154.4	153,678	58	19.8%	37.7
Multiracial/Other	2,892	50	7.4%	1,728.7	3,205	23	7.8%	717.6
Total	188,650	676	100.0%	358.3	201,499	293	100.0%	145.4

Note. Population data by sex at birth, age, and race/ethnicity are from the 2019 U.S. Census population estimates.

Table 14 – CD4 Test Results During 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2020

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								
Male	676	537	79.4%	607	8.2%	12.5%	15.3%	64.1%
Female	293	243	82.9%	671	7.8%	10.7%	13.6%	67.9%
Gender								
Male	669	531	79.4%	607	8.3%	12.6%	15.1%	64.0%
Female	292	242	82.9%	672	7.9%	10.7%	13.2%	68.2%
Transfeminine	6	5	83.3%	848	0.0%	0.0%	20.0%	80.0%
Transmasculine	1	***	***	***	***	***	***	***
Another Gender Identity	1	***	***	***	***	***	***	***
Race/Ethnicity								
Hispanic	57	***	***	***	***	***	***	***
Non-Hispanic	912	746	81.8%	621	7.9%	11.9%	14.6%	65.5%
American Indian/Alaska Native, only	0	--	--	--	--	--	--	--
Asian, only	4	***	***	***	***	***	***	***
Black, only	556	461	82.9%	616	8.5%	11.9%	15.0%	64.6%
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--	--	--	--
White, only	279	222	79.6%	671	6.8%	12.6%	13.5%	67.1%
Multiracial/Other	73	60	82.2%	567	8.3%	10.0%	15.0%	66.7%
Country of Birth								
United States	879	711	80.9%	631	7.7%	11.3%	14.8%	66.2%
Foreign-Born	76	58	76.3%	515	12.1%	17.2%	15.5%	55.2%
Africa	16	14	87.5%	649	0.0%	14.3%	21.4%	64.3%
Asia	1	***	***	***	***	***	***	***
Caribbean	38	29	76.3%	461	20.7%	20.7%	10.3%	48.3%
Central America	16	9	56.3%	552	11.1%	11.1%	22.2%	55.6%
Other	5	***	***	***	***	***	***	***
Unknown	14	11	78.6%	539	9.1%	27.3%	9.1%	54.5%
Total	969	780	80.5%	620	8.1%	11.9%	14.7%	65.3%

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

Table 15 – Viral Load Test Results During 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2020

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Sex at Birth					
Male	676	548	81.1%	89.1%	9,300
Female	293	238	81.2%	88.7%	9,020
Gender					
Male	669	541	80.9%	89.5%	8,180
Female	292	237	81.2%	88.6%	9,020
Transfeminine	6	6	100.0%	66.7%	622,450
Transmasculine	1	***	***	***	***
Another Gender Identity	1	***	***	***	***
Race/Ethnicity					
Hispanic	57	35	61.4%	80.0%	7,940
Non-Hispanic	912	751	82.3%	89.3%	9,560
American Indian/Alaska Native, only	0	--	--	--	--
Asian, only	4	***	***	***	***
Black, only	556	456	82.0%	87.9%	11,730
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--
White, only	279	230	82.4%	92.6%	1,680
Multiracial/Other	73	***	***	***	***
Country of Birth					
United States	879	717	81.6%	89.3%	9,020
Foreign-Born	76	57	75.0%	89.5%	23,175
Africa	16	14	87.5%	100.0%	--
Asia	1	***	***	***	***
Caribbean	38	29	76.3%	86.2%	52,605
Central America	16	8	50.0%	87.5%	370
Other	5	***	***	***	***
Unknown	14	12	85.7%	66.7%	50,999
Total	969	786	81.1%	88.9%	9,020

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

Table 16 – Males Living with Diagnosed HIV by Age on December 31, 2019 and Race/Ethnicity, Alive on December 31, 2019, and Reported through June 30, 2020

Total Males Living with Diagnosed HIV						
Age on December 31, 2019		Race/Ethnicity				Total Males by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	3,597	6,385	21,382	2,600	33,964
	Number	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0
	Ratio (1 in X)	--	--	--	--	--
13-19	Population	1,528	4,133	13,762	1,284	20,707
	Number	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0
	Ratio (1 in X)	--	--	--	--	--
20-29	Population	1,706	6,388	19,713	1,259	29,066
	Number	9	60	10	4	83
	Rate	527.5	939.3	50.7	317.7	285.6
	Ratio (1 in X)	190	106	1,971	315	350
30-39	Population	2,033	4,685	17,952	831	25,501
	Number	***	54	21	***	95
	Rate	***	1,152.6	117.0	***	372.5
	Ratio (1 in X)	***	87	855	***	268
40-49	Population	1,489	4,146	18,260	870	24,765
	Number	***	53	27	***	99
	Rate	***	1,278.3	147.9	***	399.8
	Ratio (1 in X)	***	78	676	***	250
50-59	Population	1,082	4,644	24,844	816	31,386
	Number	***	110	94	***	233
	Rate	***	2,368.6	378.4	***	742.4
	Ratio (1 in X)	***	42	264	***	135
60+	Population	834	6,468	48,625	1,298	57,225
	Number	***	83	69	***	166
	Rate	***	1,283.2	141.9	***	290.1
	Ratio (1 in X)	***	78	705	***	345
Total Males by Race/Ethnicity	Population	12,269	36,849	164,538	8,958	222,614
	Number	41	360	221	54	676
	Rate	334.2	977.0	134.3	602.8	303.7
	Ratio (1 in X)	299	102	745	166	329

Table 17 – Females Living with Diagnosed HIV by Age on December 31, 2019 and Race/Ethnicity, Alive on December 31, 2019, and Reported through June 30, 2020

Total Females Living with Diagnosed HIV						
Age on December 31, 2019		Race/Ethnicity				Total Females by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	3,484	6,281	20,469	2,328	32,562
	Number	0	2	1	0	3
	Rate	0.0	31.8	4.9	0.0	9.2
	Ratio (1 in X)	--	3,141	20,469	--	10,854
13-19	Population	1,510	4,002	13,667	1,387	20,566
	Number	0	1	1	0	2
	Rate	0.0	25.0	7.3	0.0	9.7
	Ratio (1 in X)	--	4,002	13,667	--	10,283
20-29	Population	1,612	5,868	20,027	1,502	29,009
	Number	0	12	2	3	17
	Rate	0.0	204.5	10.0	199.7	58.6
	Ratio (1 in X)	--	489	10,014	501	1,706
30-39	Population	1,684	4,683	18,330	1,085	25,782
	Number	5	28	7	5	45
	Rate	296.9	597.9	38.2	460.8	174.5
	Ratio (1 in X)	337	167	2,619	217	573
40-49	Population	1,547	4,232	19,138	981	25,898
	Number	***	42	18	***	68
	Rate	***	992.4	94.1	***	262.6
	Ratio (1 in X)	***	101	1,063	***	381
50-59	Population	836	4,964	26,382	899	33,081
	Number	***	62	16	***	92
	Rate	***	1,249.0	60.6	***	278.1
	Ratio (1 in X)	***	80	1,649	***	360
60+	Population	852	8,732	56,134	1,445	67,163
	Number	0	51	14	4	69
	Rate	0.0	584.1	24.9	276.8	102.7
	Ratio (1 in X)	--	171	4,010	361	973
Total Females by Race/Ethnicity	Population	11,525	38,762	174,147	9,627	234,061
	Number	16	198	59	23	296
	Rate	138.8	510.8	33.9	238.9	126.5
	Ratio (1 in X)	720	196	2,952	419	791

Section VII – By HIV Exposure Category

Table 18 – Reported HIV Diagnoses, Among People Aged 13+ During 2019, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2020

Estimated or Reported Exposure Category	Reported HIV Diagnoses Among People Aged 13+						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 month	% 3 months	%	% with Test	Median Count
Male-to-male Sexual Contact (MSM)	26	64.8%	92.3%	96.1%	22.0%	96.1%	456
Injection Drug Use (IDU)	3	7.3%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	0	0.0%	--	--	--	--	--
Heterosexual Contact (HET)	11	28.0%	***	***	***	***	***
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	40	100.0%	87.5%	90.0%	25.0%	90.0%	434
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	26	80.9%	92.3%	96.1%	22.0%	96.1%	456
Injection Drug Use (IDU)	3	7.8%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	0	0.0%	--	--	--	--	--
Heterosexual Contact (HET)	4	11.3%	***	***	***	***	***
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	32	100.0%	90.6%	93.8%	28.1%	93.8%	431
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	0	0.0%	--	--	--	--	--
Heterosexual Contact (HET)	8	95.0%	73.7%	73.7%	***	73.7%	447
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	8	100.0%	75.0%	75.0%	***	75.0%	440

Note. Data for 2019 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. 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

Table 19 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2020

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV	
	No.	% of Total
Male-to-male Sexual Contact (MSM)	435	44.9%
Injection Drug Use (IDU)	140	14.4%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	40	4.1%
Heterosexual Contact (HET)	339	34.9%
Perinatal Transmission	12	1.2%
Other Exposure	2	0.2%
No Estimated or Reported Exposure	1	0.1%
Total	969	100.0%
Male Estimated or Reported Exposure Category		
Male-to-male Sexual Contact (MSM)	435	64.4%
Injection Drug Use (IDU)	80	11.8%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	40	5.9%
Heterosexual Contact (HET)	115	17.0%
Perinatal Transmission	3	0.4%
Other Exposure	2	0.3%
No Estimated or Reported Exposure	1	0.1%
Total	676	100.0%
Female Estimated or Reported Exposure Category		
Injection Drug Use (IDU)	60	20.5%
Heterosexual Contact (HET)	224	76.4%
Perinatal Transmission	9	3.1%
Other Exposure	0	0.0%
No Estimated or Reported Exposure	0	0.0%
Total	293	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. 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, 2019, and Reported through June 30, 2020

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 (MSM)	29	51.6%	196	35.2%	175	62.8%
Injection Drug Use (IDU)	4	7.7%	85	15.3%	33	11.9%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1	1.9%	24	4.2%	9	3.3%
Heterosexual Contact (HET)	22	38.8%	243	43.7%	55	19.8%
Perinatal Transmission	0	0.0%	9	1.6%	3	1.1%
Other Exposure	0	0.0%	0	0.0%	2	0.7%
No Estimated or Reported Exposure	0	0.0%	0	0.0%	1	0.4%
Total	56	100.0%	557	100.0%	278	100.0%

Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	29	71.7%	196	54.3%	175	79.3%
Injection Drug Use (IDU)	1	3.4%	57	15.7%	13	5.7%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1	2.7%	24	6.5%	9	4.2%
Heterosexual Contact (HET)	9	22.2%	82	22.6%	21	9.5%
Perinatal Transmission	0	0.0%	3	0.8%	0	0.0%
Other Exposure	0	0.0%	0	0.0%	2	0.9%
No Estimated or Reported Exposure	0	0.0%	0	0.0%	1	0.5%
Total	40	100.0%	362	100.0%	221	100.0%

Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	3	18.8%	29	14.5%	21	35.5%
Heterosexual Contact (HET)	13	81.3%	162	82.4%	34	59.3%
Perinatal Transmission	0	0.0%	6	3.1%	3	5.2%
Other Exposure	0	0.0%	0	0.0%	0	0.0%
No Estimated or Reported Exposure	0	0.0%	0	0.0%	0	0.0%
Total	16	100.0%	197	100.0%	58	100.0%

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

Table 21 – CD4 Test Results During 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Estimated or Reported Exposure Category, Reported through June 30, 2020

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 (MSM)	435	347	79.7%	594	6.8%	13.4%	16.5%	63.2%
Injection Drug Use (IDU)	140	107	76.1%	656	11.6%	7.3%	15.5%	65.6%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	40	33	83.5%	597	6.0%	18.9%	9.0%	66.2%
Heterosexual Contact (HET)	339	280	82.7%	650	8.9%	11.6%	13.6%	65.9%
Perinatal Transmission	12	11	91.7%	853	0.0%	0.0%	0.0%	100.0%
Other Exposure	2	***	***	***	***	***	***	***
No Estimated or Reported Exposure	1	***	***	***	***	***	***	***
Total	435	347	79.7%	594	6.8%	13.4%	16.5%	63.2%

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 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Estimated or Reported Exposure Category, Reported through June 30, 2020

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
Male-to-male Sexual Contact (MSM)	435	360	82.7%	87.9%	10,615
Injection Drug Use (IDU)	140	108	77.5%	85.3%	1,060
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	40	33	81.3%	96.9%	7,038
Heterosexual Contact (HET)	339	271	80.0%	90.9%	15,000
Perinatal Transmission	12	11	91.7%	81.8%	2,290
Other Exposure	2	***	***	***	***
No Estimated or Reported Exposure	1	***	***	***	***
Total	435	360	82.7%	87.9%	10,615

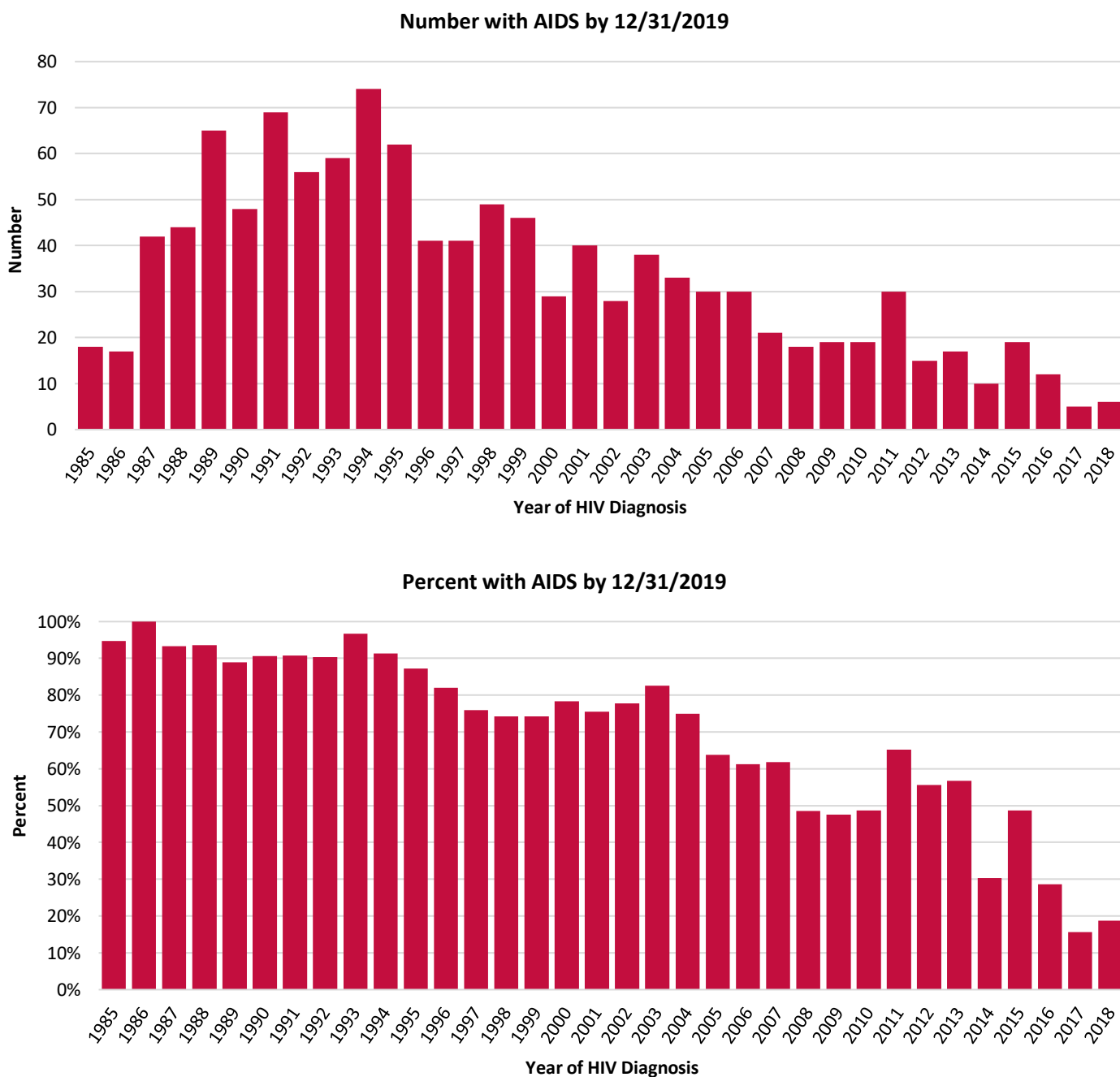
Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

*** 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, 1985-2018, Reported through June 30, 2020

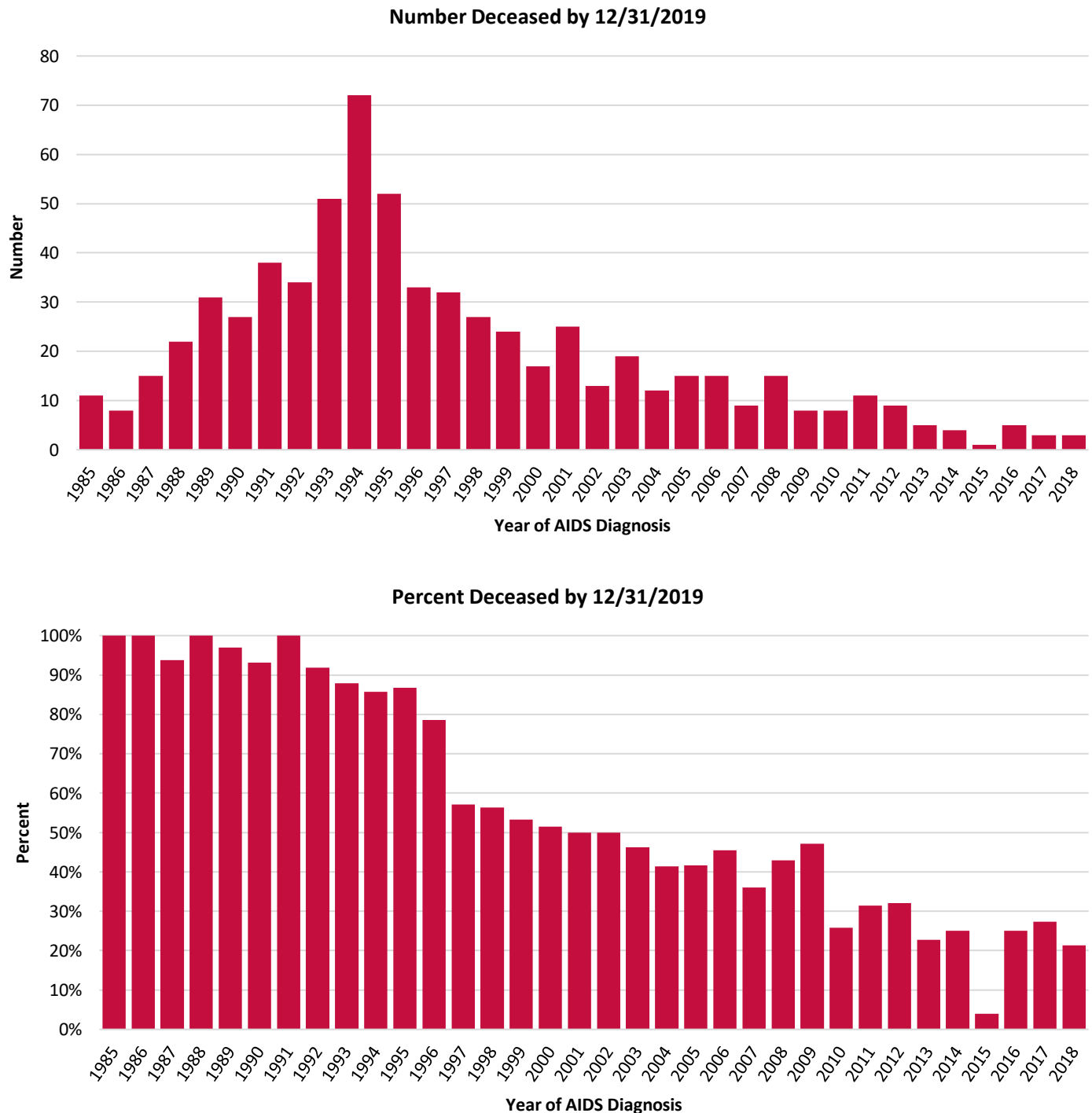
Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, (Reported HIV Diagnoses Among People Aged 13+), Number of People Aged 13+ with Diagnosed HIV with an AIDS Diagnosis by December 31, 2019 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis Among People Aged 13+ by December 31, 2019, 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 2018, Reported through June 30, 2020



Reported HIV Diagnoses Among People Aged 13+								
Year of HIV Diagnosis	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	9	9	100.0%	2.4	77.8%	77.8%	77.8%	88.9%
1985	19	18	94.7%	3.4	63.2%	63.2%	68.4%	84.2%
1986	17	17	100.0%	3.1	52.9%	58.8%	76.5%	94.1%
1987	45	42	93.3%	4.9	35.6%	35.6%	57.8%	77.8%
1988	47	44	93.6%	3.8	51.1%	53.2%	70.2%	80.9%
1989	73	65	89.0%	3.7	39.7%	45.2%	58.9%	84.9%
1990	53	48	90.6%	3.6	35.8%	39.6%	60.4%	84.9%
1991	76	69	90.8%	3.2	43.4%	48.7%	65.8%	85.5%
1992	62	56	90.3%	4.0	41.9%	48.4%	66.1%	80.6%
1993	61	59	96.7%	2.4	55.7%	68.9%	83.6%	91.8%
1994	81	74	91.4%	2.2	64.2%	67.9%	77.8%	84.0%
1995	71	62	87.3%	2.6	53.5%	59.2%	73.2%	83.1%
1996	50	41	82.0%	3.1	46.0%	50.0%	60.0%	76.0%
1997	54	41	75.9%	1.7	57.4%	61.1%	70.4%	72.2%
1998	66	49	74.2%	4.2	40.9%	42.4%	51.5%	59.1%
1999	62	46	74.2%	1.9	56.5%	58.1%	62.9%	69.4%
2000	37	29	78.4%	2.0	51.4%	51.4%	67.6%	73.0%
2001	53	40	75.5%	1.2	58.5%	62.3%	66.0%	75.5%
2002	36	28	77.8%	2.5	52.8%	58.3%	63.9%	69.4%
2003	46	38	82.6%	1.8	60.9%	63.0%	71.7%	80.4%
2004	44	33	75.0%	2.2	50.0%	50.0%	61.4%	72.7%
2005	47	30	63.8%	1.7	51.1%	51.1%	55.3%	59.6%
2006	49	30	61.2%	1.8	46.9%	46.9%	53.1%	59.2%
2007	34	21	61.8%	0.9	52.9%	52.9%	58.8%	61.8%
2008	37	18	48.6%	2.7	29.7%	32.4%	35.1%	45.9%
2009	40	19	47.5%	0.9	42.5%	42.5%	42.5%	47.5%
2010	39	19	48.7%	1.6	33.3%	35.9%	38.5%	--
2011	46	30	65.2%	0.9	54.3%	56.5%	60.9%	--
2012	27	15	55.6%	0.5	48.1%	51.9%	55.6%	--
2013	30	17	56.7%	0.3	53.3%	53.3%	56.7%	--
2014	33	10	30.3%	0.3	27.3%	27.3%	30.3%	--
2015	39	19	48.7%	0.4	46.2%	46.2%	--	--
2016	42	12	28.6%	0.3	26.2%	28.6%	--	--
2017	32	5	15.6%	0.6	12.5%	15.6%	--	--
2018	32	6	18.8%	0.2	18.8%	--	--	--
Total	1,589	1,159	72.9%	2.5	46.7%	49.7%	59.0%	68.3%

Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2018, Reported through June 30, 2020

Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2018 (Reported AIDS Diagnoses), Number of Reported AIDS Diagnosis Among People Aged 13+ Reported to Have Died of Any Cause by December 31, 2019 (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, 2019, 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 2018, Reported through June 30, 2020



Reported AIDS Diagnoses Among People Aged 13+								
Year of AIDS Diagnosis	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	7	7	100.0%	0.4	14.3%	0.0%	0.0%	0.0%
1985	11	11	100.0%	0.5	27.3%	0.0%	0.0%	0.0%
1986	8	8	100.0%	0.9	37.5%	25.0%	0.0%	0.0%
1987	16	15	93.8%	2.6	62.5%	43.8%	12.5%	12.5%
1988	22	22	100.0%	1.9	63.6%	31.8%	9.1%	0.0%
1989	32	31	96.9%	2.4	59.4%	46.9%	15.6%	6.3%
1990	29	27	93.1%	2.7	75.9%	51.7%	24.1%	6.9%
1991	38	38	100.0%	2.4	71.1%	39.5%	15.8%	2.6%
1992	37	34	91.9%	3.0	62.2%	40.5%	18.9%	16.2%
1993	58	51	87.9%	3.2	79.3%	55.2%	29.3%	17.2%
1994	84	72	85.7%	4.5	75.0%	63.1%	40.5%	25.0%
1995	60	52	86.7%	5.1	71.7%	61.7%	46.7%	26.7%
1996	42	33	78.6%	6.1	78.6%	73.8%	54.8%	35.7%
1997	56	32	57.1%	6.9	89.3%	82.1%	71.4%	57.1%
1998	48	27	56.3%	5.2	85.4%	81.3%	64.6%	52.1%
1999	45	24	53.3%	6.1	95.6%	88.9%	73.3%	55.6%
2000	33	17	51.5%	7.3	84.8%	78.8%	72.7%	69.7%
2001	50	25	50.0%	4.8	80.0%	78.0%	70.0%	62.0%
2002	26	13	50.0%	5.2	80.8%	76.9%	69.2%	65.4%
2003	41	19	46.3%	2.8	78.0%	70.7%	65.9%	53.7%
2004	29	12	41.4%	4.7	89.7%	82.8%	75.9%	65.5%
2005	36	15	41.7%	3.7	83.3%	83.3%	72.2%	63.9%
2006	33	15	45.5%	3.1	78.8%	75.8%	66.7%	54.5%
2007	25	9	36.0%	4.1	88.0%	88.0%	76.0%	68.0%
2008	35	15	42.9%	3.5	82.9%	80.0%	71.4%	57.1%
2009	17	8	47.1%	1.1	64.7%	58.8%	58.8%	52.9%
2010	31	8	25.8%	4.1	93.5%	90.3%	87.1%	--
2011	35	11	31.4%	4.2	91.4%	91.4%	80.0%	--
2012	28	9	32.1%	1.9	82.1%	78.6%	71.4%	--
2013	22	5	22.7%	1.5	81.8%	81.8%	81.8%	--
2014	16	4	25.0%	0.1	75.0%	75.0%	75.0%	--
2015	25	1	4.0%	2.8	100.0%	100.0%	--	--
2016	20	5	25.0%	1.2	85.0%	80.0%	--	--
2017	11	3	27.3%	1.4	90.9%	81.8%	--	--
2018*	14	3	21.4%	0.1	78.6%	--	--	--
Total	1,120	681	60.8%	3.9	78.8%	69.6%	55.9%	45.4%

*2018 AIDS deaths are preliminary

Section IX – Pediatrics

Figure 12 – Trends in Reported HIV Diagnoses Among People Aged <13, 1985-2019, Reported through June 30, 2020

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 2019, as Reported by Name through June 30, 2020

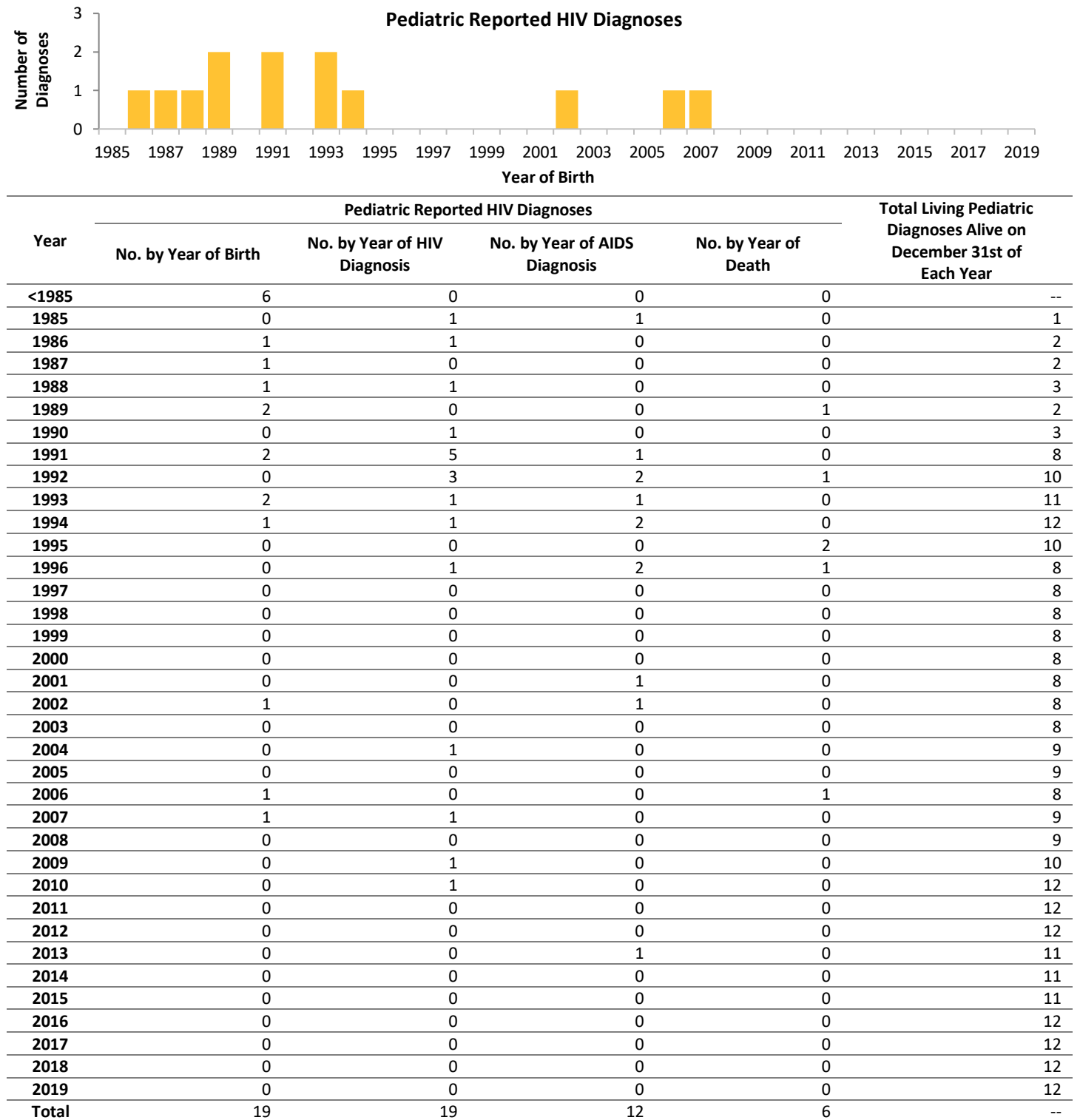


Table 23 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2019, by Jurisdiction of Current Residence, Reported through June 30, 2020

Jurisdiction of Current Residence	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Caroline	0	0.0%
Cecil	3	100.0%
Dorchester	0	0.0%
Kent	0	0.0%
Queen Anne's	0	0.0%
Somerset	0	0.0%
Talbot	0	0.0%
Wicomico	0	0.0%
Worcester	0	0.0%
Total	3	100.0%

Table 24 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2019, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2020

Demographic Characteristic	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Sex at Birth		
Male	0	0.0%
Female	3	100.0%
Race/Ethnicity		
Hispanic		
Non-Hispanic		
American Indian/Alaska Native, only	0	0.0%
Asian, only	3	100.0%
Black, only	0	0.0%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	2	66.7%
Multiracial/Other	0	0.0%
Total	1	33.3%

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.

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

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

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.

Heterosexual Contact (HET): Men or women 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): Men or women 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 or 3 months after their initial HIV diagnosis.

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.

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 (MSM): 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 (MSM/IDU): Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Other Exposure: Includes men or women 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.

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 Exposure: Any baby born to a woman living with diagnosed HIV.

Perinatal HIV Transmission Percent: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures by year of birth.

Perinatal HIV Transmission Rate: Number of confirmed perinatal HIV transmissions divided by the number of live births multiplied by 100,000 by year of birth.

Population: Population estimate for July 1, 2019.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2019.

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.

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.

Transfeminine: A person whose sex assigned at birth is male but who identify as feminine.

Transmasculine: A person whose sex assigned at birth is female but who identify as masculine.

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