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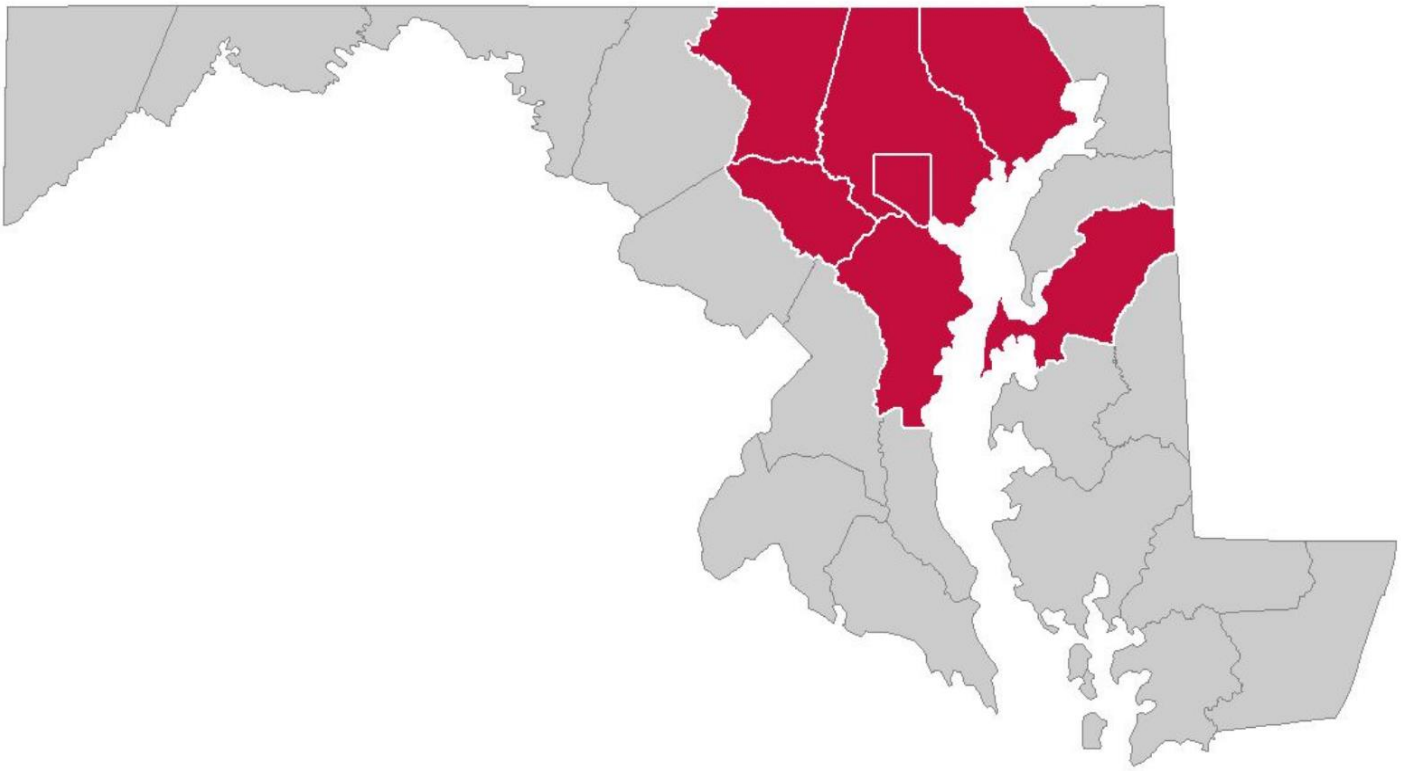

Baltimore Metropolitan Region Annual HIV Epidemiological Profile

Data reported through June 30, 2019

Maryland
DEPARTMENT OF HEALTH

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that people living with HIV be reported by name. The following highlights 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 immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.

- Physicians are required to report infants born to mothers living with HIV within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.

- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.

- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

HIV Incidence: The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.2 percent for the United States and 13.8 percent for Maryland in 2016. Using the CDC CD4 depletion model on Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 11.6 percent in 2017.

Maryland Residence: This epidemiological profile provides estimates of people living with diagnosed HIV in Maryland by their residence as of December 31, 2018. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data 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 during the most recent ten and a half years. 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.

Maryland Residence – Correctional Facilities: People living with diagnosed HIV who were reported to be residing in a state or federal prison as of December 31, 2018 will be presented in the Maryland epidemiological profile 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. Individuals diagnosed or previously identified as residing in a correctional facility, whose most recent reported residential address indicates they were not residing in a state/federal correctional facility as of December 31, 2018, are included with estimates of people who are not incarcerated. The movement of persons between Maryland correctional facilities is not reflected in this report.

Gender Identity: This epidemiological profile describes gender expansive people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Historically, it has been difficult to fully present data by gender identity. Data on gender expansive people has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). 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 expansive people 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. This report may be overreporting the number of Multiracial people living with diagnosed HIV because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

Foreign-Born Maryland Residents: 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.

Mortality: Mortality (death) data is presented in this epidemiological profile. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

Viral Suppression: In this epidemiological profile, viral suppression is defined as the most recent viral load measured in the specified year of less than 200 copies per milliliter. 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.

Changes in Terminology

The terminology for HIV and AIDS surveillance data was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and People Living with Diagnosed HIV replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed individuals as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the

Reported HIV Diagnoses for 2018 are the total number of people diagnosed with HIV from January 1, 2018 to December 31, 2018, as reported by name through June 30, 2019.

To calculate the number of people living with diagnosed HIV, we count all reported diagnoses from the beginning of the epidemic (all new diagnoses each year) and subtract all reported deaths. For example, the total people living with diagnosed HIV on December 31, 2018 are the total reported HIV diagnoses not reported to have died as of December 31, 2018 as reported by name through June 30, 2019.

Stages of HIV Surveillance

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can contract HIV but never be screened for HIV and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the health department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

An instance of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9] but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV transmission [time point 1].

Laboratory Data

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. Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very 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, are known as viral suppression. 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. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, 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 eHARS, as of June 30, 2019.

Population data by sex, age, and race/ethnicity are from the July 1, 2018 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2017 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.

The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

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 5 people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Exposure/risk data is not suppressed due to statistical adjustment resulting in the reporting of estimated or probable risk.

HIV Exposure Categories

The Centers for Disease Control and Prevention (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.

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

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).

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.

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.

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

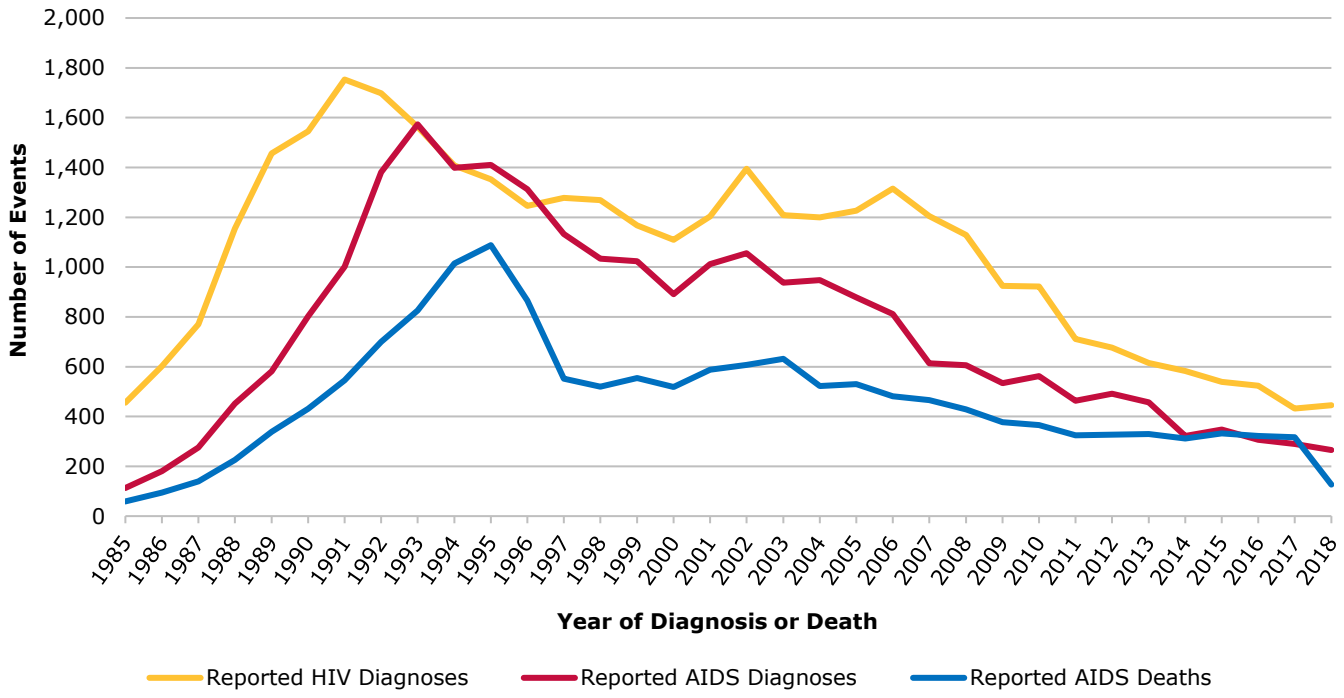
Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

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. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual person as well as data in aggregate from other people living with diagnosed HIV in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

Section II – Trends 1985-2018

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019

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 2018, as Reported through June 30, 2019

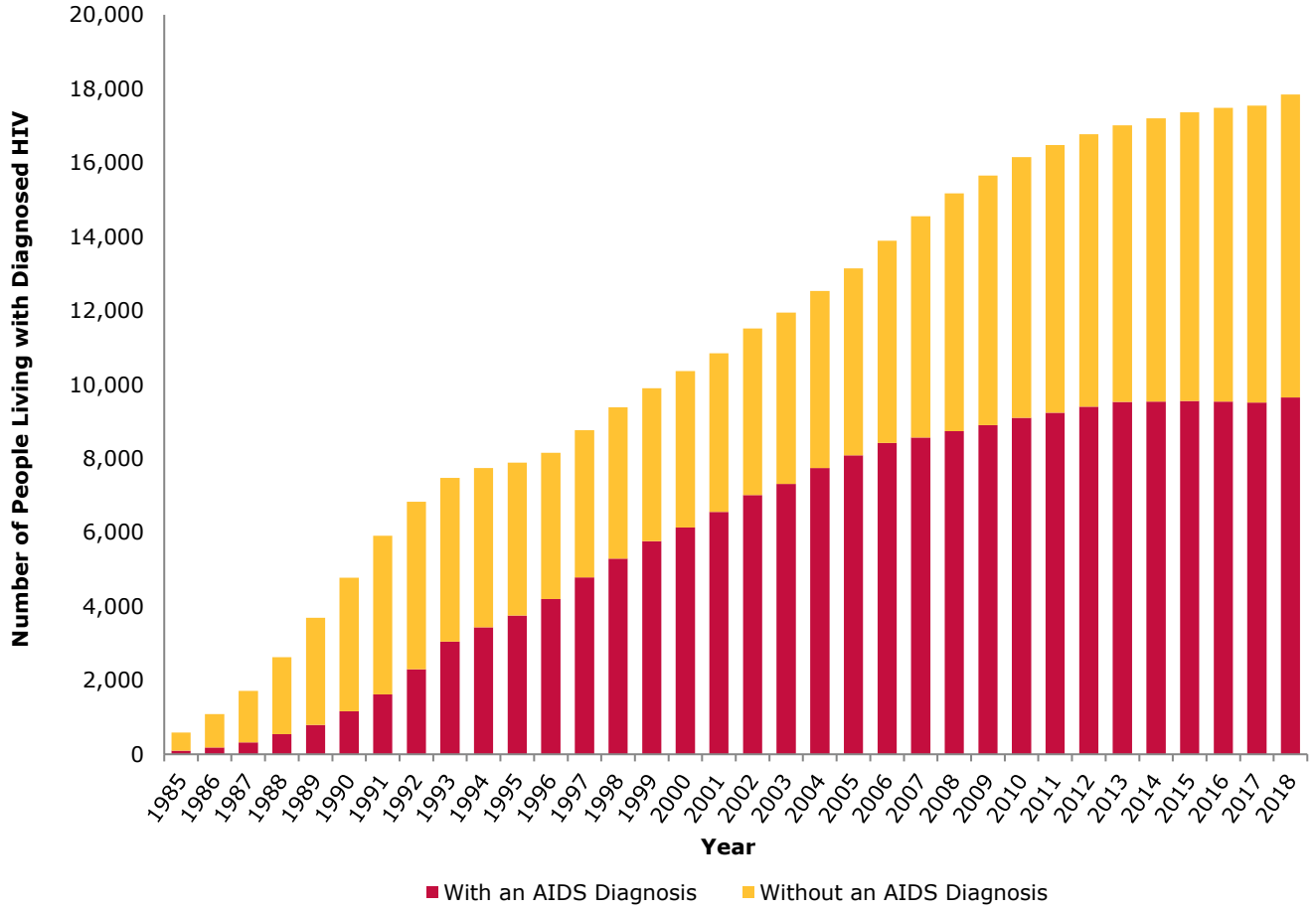


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	237	77	35	**2002**	1,395	1,056	607
1985	455	113	59	**2003**	1,208	937	631
1986	602	181	94	**2004**	1,200	948	522
1987	770	275	140	**2005**	1,227	878	530
1988	1,154	452	225	**2006**	1,315	811	481
1989	1,457	582	338	**2007**	1,204	613	466
1990	1,545	802	431	**2008**	1,129	606	429
1991	1,753	1,001	545	**2009**	924	534	377
1992	1,698	1,381	700	**2010**	922	562	365
1993	1,563	1,573	825	**2011**	711	463	324
1994	1,408	1,399	1,015	**2012**	676	492	327
1995	1,352	1,410	1,088	**2013**	615	457	330
1996	1,246	1,313	866	**2014**	583	322	311
1997	1,278	1,132	552	**2015**	539	348	332
1998	1,269	1,034	520	**2016**	523	307	322
1999	1,167	1,023	555	**2017***	432	290	317
2000	1,109	891	518	**2018***	445	265	127
2001	1,203	1,012	588	**Total**	36,314	25,540	15,892

*2017-2018 reported AIDS deaths are preliminary

Figure 2 – Trends in People Living with Diagnosed HIV, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019

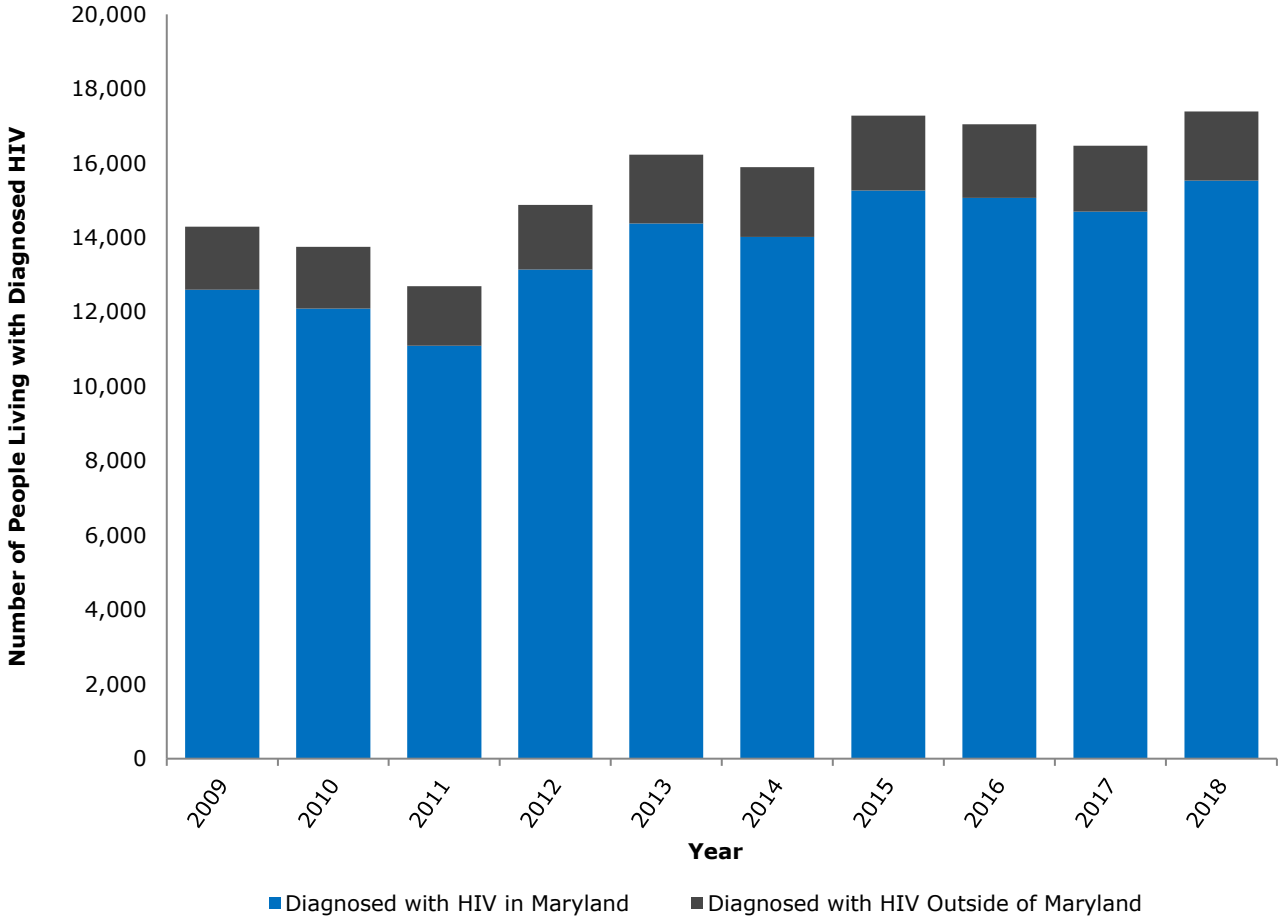
People Living with Diagnosed HIV and Not Reported to have Died as of December 31st of Each Year (People Living with Diagnosed HIV without an AIDS Diagnosis, People Living with Diagnosed HIV with an AIDS Diagnosis, and Total People Living with Diagnosed HIV) from 1985 through 2018, as Reported through June 30, 2019



Year	People Living with Diagnosed HIV			Year	People Living with Diagnosed HIV		
	without an AIDS Diagnosis	with an AIDS Diagnosis	Total		without an AIDS Diagnosis	with an AIDS Diagnosis	Total
1985	494	96	590	**2002**	4,509	7,008	11,517
1986	907	183	1,090	**2003**	4,634	7,314	11,948
1987	1,395	319	1,714	**2004**	4,790	7,740	12,530
1988	2,078	546	2,624	**2005**	5,055	8,088	13,143
1989	2,904	790	3,694	**2006**	5,474	8,418	13,892
1990	3,612	1,161	4,773	**2007**	5,985	8,565	14,550
1991	4,293	1,617	5,910	**2008**	6,425	8,742	15,167
1992	4,536	2,298	6,834	**2009**	6,754	8,899	15,653
1993	4,429	3,046	7,475	**2010**	7,055	9,096	16,151
1994	4,308	3,431	7,739	**2011**	7,247	9,235	16,482
1995	4,131	3,753	7,884	**2012**	7,368	9,400	16,768
1996	3,955	4,200	8,155	**2013**	7,481	9,527	17,008
1997	3,983	4,780	8,763	**2014**	7,665	9,538	17,203
1998	4,093	5,294	9,387	**2015**	7,813	9,554	17,367
1999	4,134	5,762	9,896	**2016**	7,943	9,539	17,482
2000	4,226	6,135	10,361	**2017**	8,034	9,512	17,546
2001	4,290	6,559	10,849	**2018**	8,195	9,650	17,845

Figure 3 – Trends in People Aged 13+ Living with Diagnosed HIV, Among Current Residents, 2009-2018, Reported through June 30, 2019

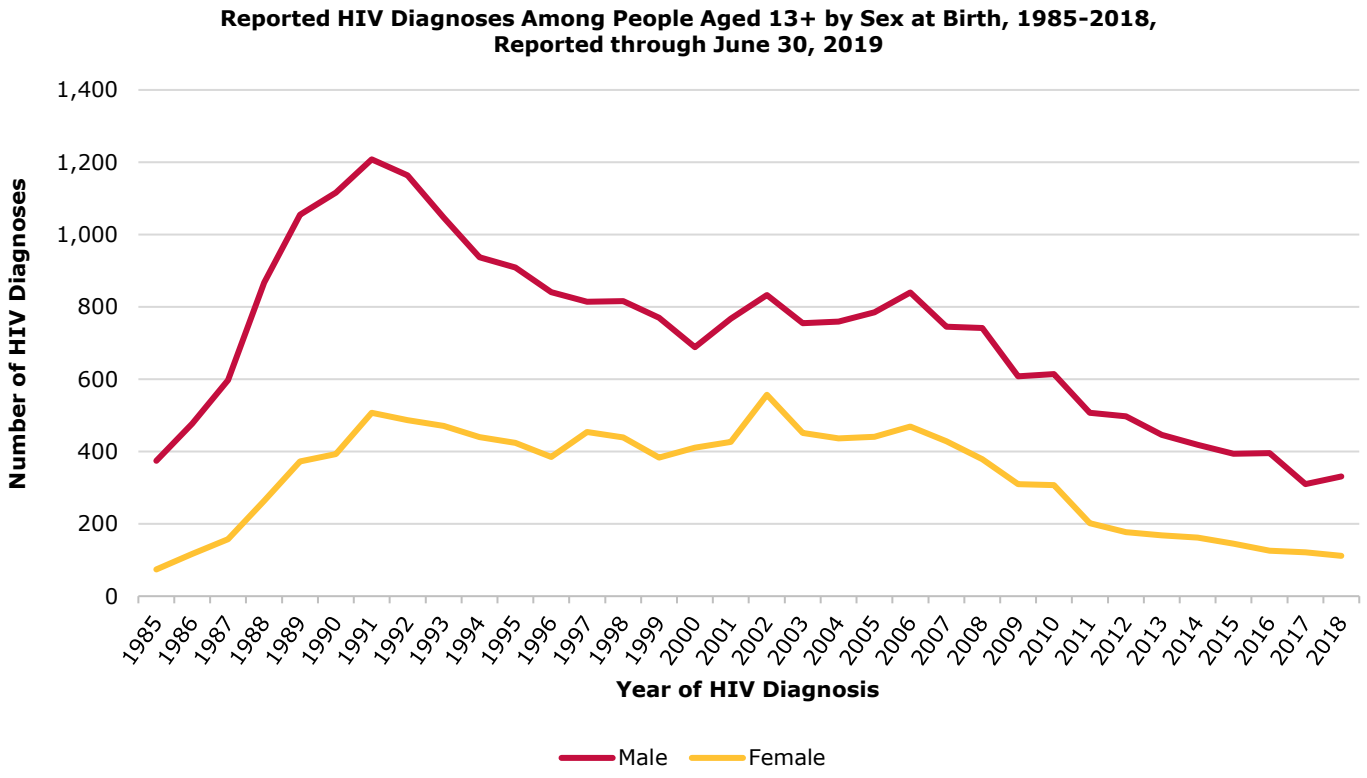
People Living with Diagnosed HIV in the Baltimore Metro region and Not Reported to have Died as of December 31st of Each Year from 2009 through 2018, as Reported through June 30, 2019

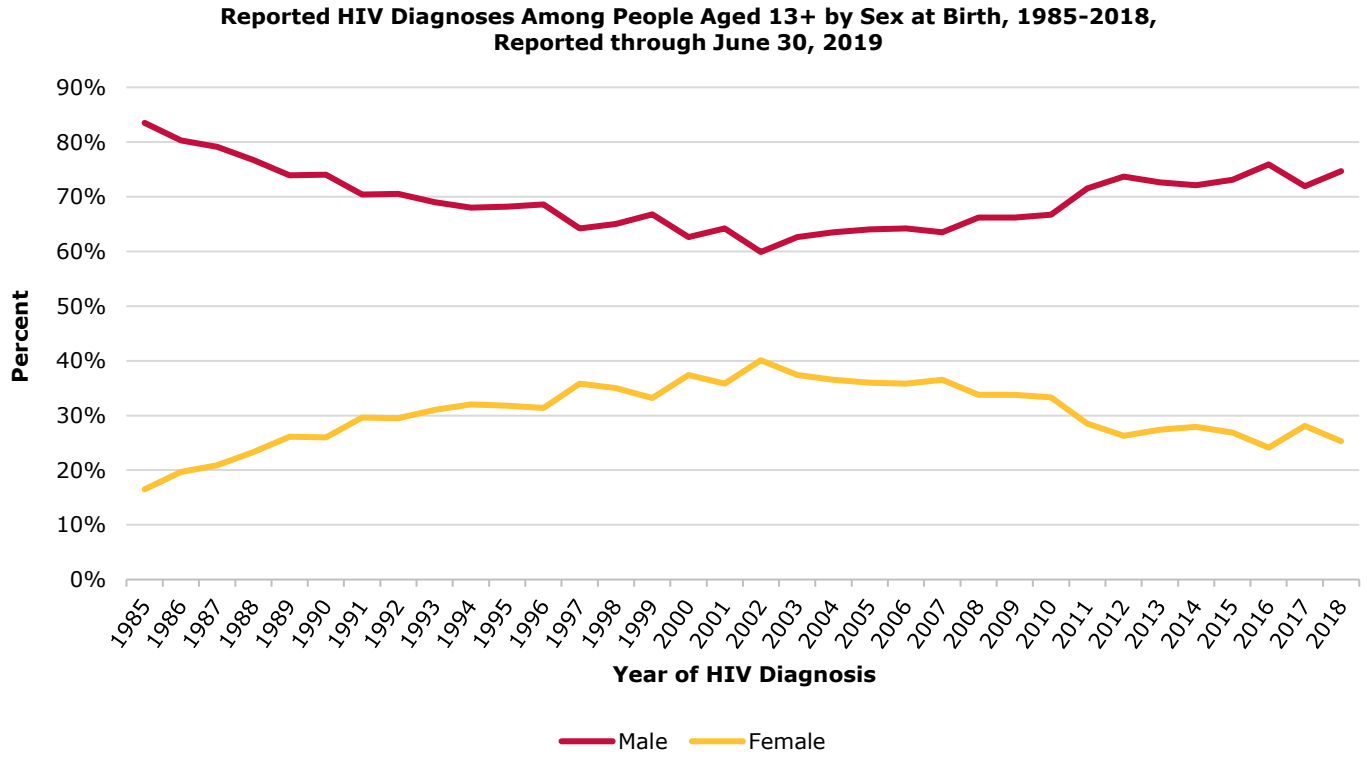


Year	Population Age 13+	Baltimore Metro Residents Aged 13+ as of December 31st of the Specified Year			
		Diagnosed with HIV in Maryland	Diagnosed with HIV Outside of Maryland	Total	Rate
2009	2,254,650	12,598	1,695	14,293	633.9
2010	2,274,168	12,094	1,663	13,757	604.9
2011	2,291,332	11,098	1,600	12,698	554.2
2012	2,310,871	13,141	1,735	14,876	643.7
2013	2,324,517	14,384	1,848	16,232	698.3
2014	2,336,663	14,017	1,877	15,894	680.2
2015	2,347,180	15,263	2,019	17,282	736.3
2016	2,352,043	15,065	1,979	17,044	724.6
2017	2,357,206	14,696	1,776	16,472	698.8
2018	2,362,283	15,534	1,860	17,394	736.3

Figure 4 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2018, Reported through June 30, 2019

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 2018, as Reported through June 30, 2019

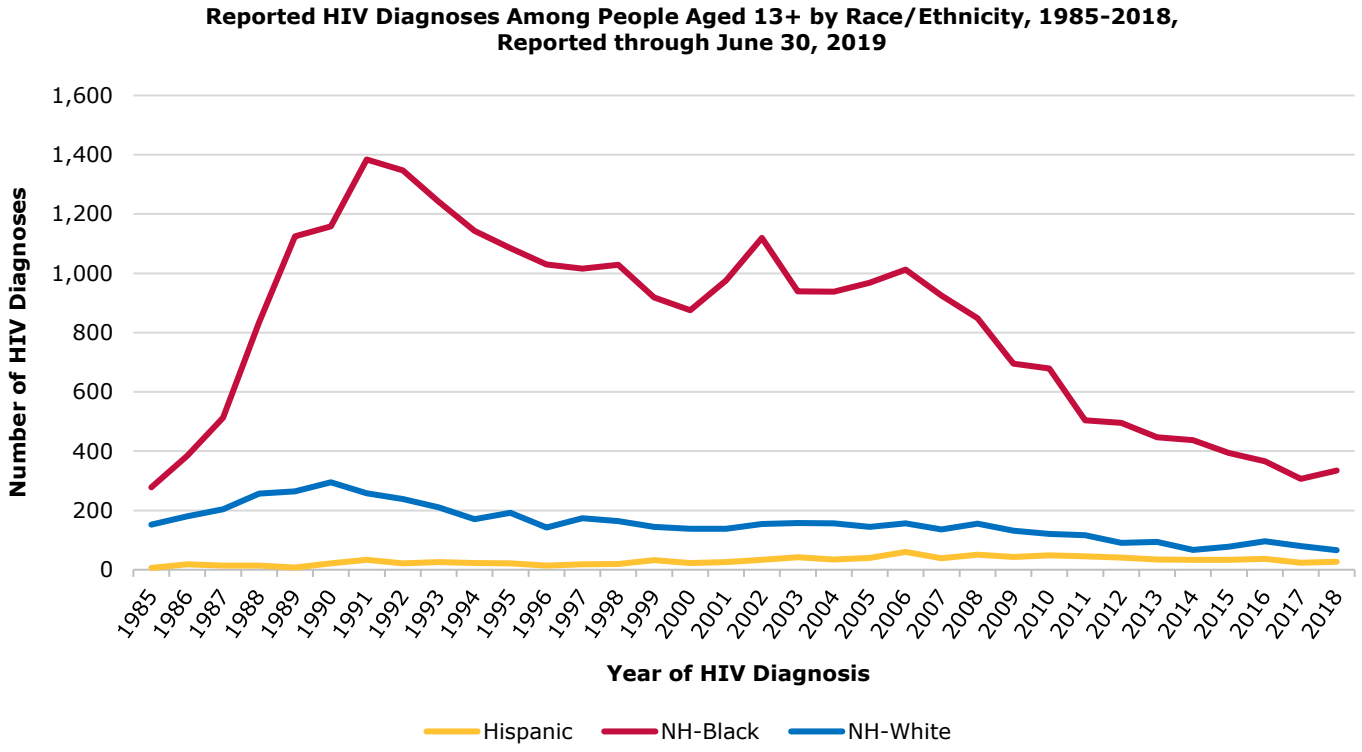


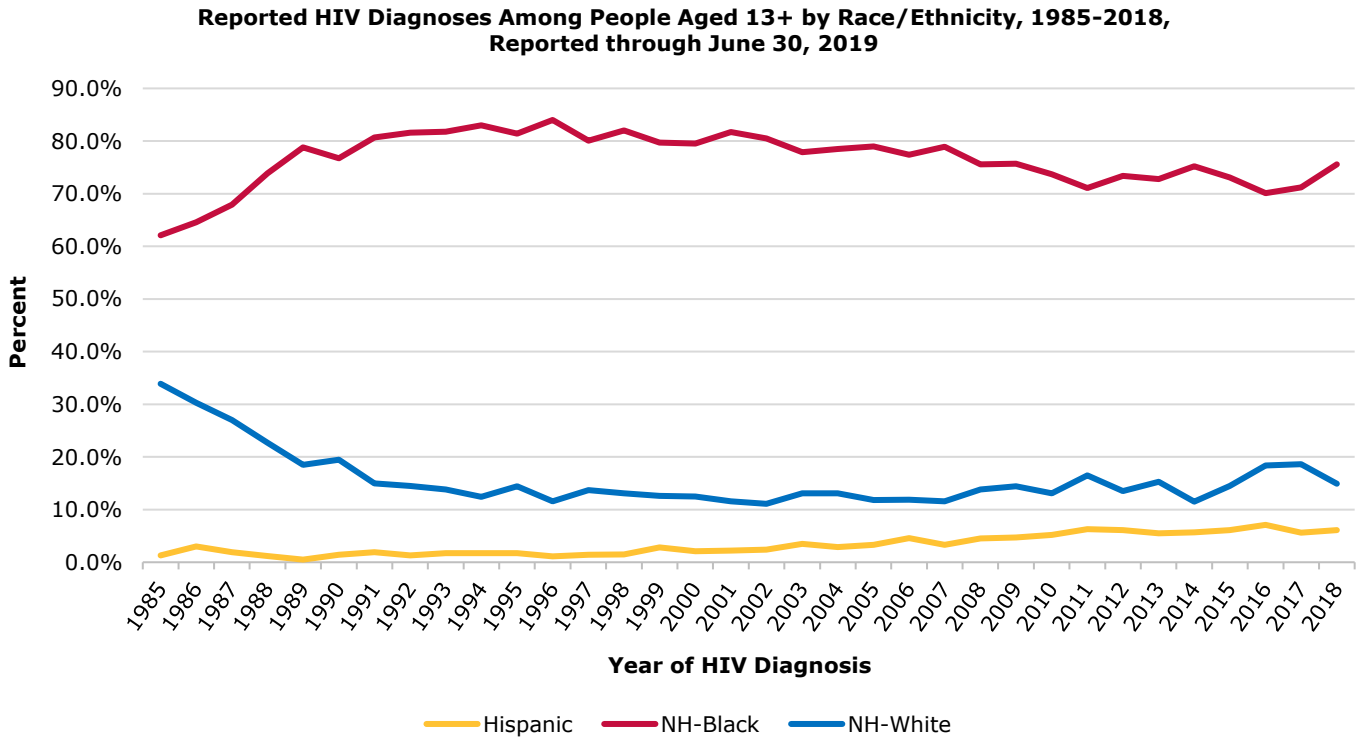


Year of HIV Diagnosis	Reported HIV Diagnoses Among People Aged 13+				
	Number	Sex at Birth			
		Male		Female	
		Number	Percent	Number	Percent
<1985	235	204	86.8%	31	13.2%
1985	448	374	83.5%	74	16.5%
1986	594	477	80.3%	117	19.7%
1987	755	597	79.1%	158	20.9%
1988	1,131	867	76.7%	264	23.3%
1989	1,428	1,055	73.9%	373	26.1%
1990	1,509	1,116	74.0%	393	26.0%
1991	1,715	1,208	70.4%	507	29.6%
1992	1,651	1,164	70.5%	487	29.5%
1993	1,518	1,047	69.0%	471	31.0%
1994	1,377	937	68.0%	440	32.0%
1995	1,333	909	68.2%	424	31.8%
1996	1,226	841	68.6%	385	31.4%
1997	1,268	814	64.2%	454	35.8%
1998	1,255	816	65.0%	439	35.0%
1999	1,153	770	66.8%	383	33.2%
2000	1,100	689	62.6%	411	37.4%
2001	1,194	767	64.2%	427	35.8%
2002	1,390	833	59.9%	557	40.1%
2003	1,206	755	62.6%	451	37.4%
2004	1,195	759	63.5%	436	36.5%
2005	1,226	785	64.0%	441	36.0%
2006	1,309	840	64.2%	469	35.8%
2007	1,173	745	63.5%	428	36.5%
2008	1,121	742	66.2%	379	33.8%
2009	918	608	66.2%	310	33.8%
2010	921	614	66.7%	307	33.3%
2011	709	507	71.5%	202	28.5%
2012	674	497	73.7%	177	26.3%
2013	614	446	72.6%	168	27.4%
2014	581	419	72.1%	162	27.9%
2015	539	394	73.1%	145	26.9%
2016	522	396	75.9%	126	24.1%
2017	431	310	71.9%	121	28.1%
2018	443	331	74.7%	112	25.3%
Total	35,862	24,633	68.7%	11,229	31.3%

Figure 5 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2018, Reported through June 30, 2019

Number and Percent by Race/Ethnicity of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019



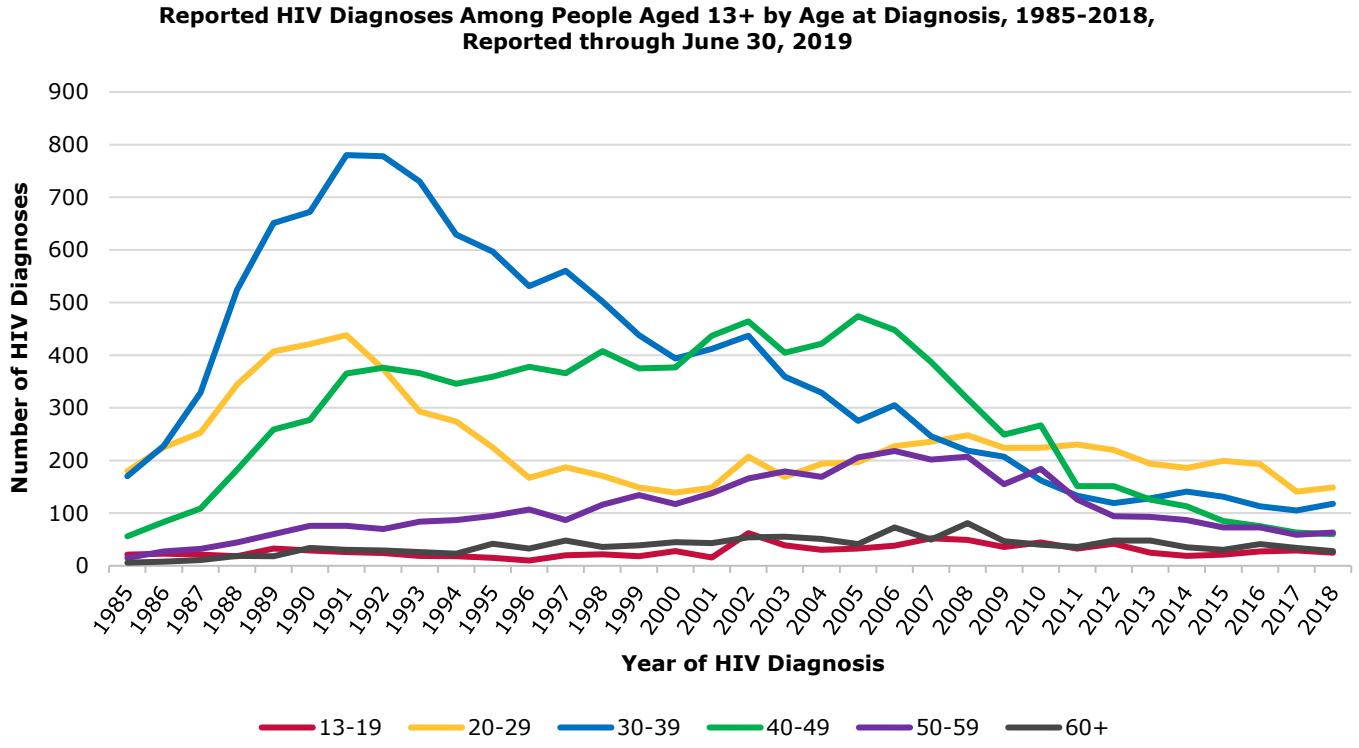


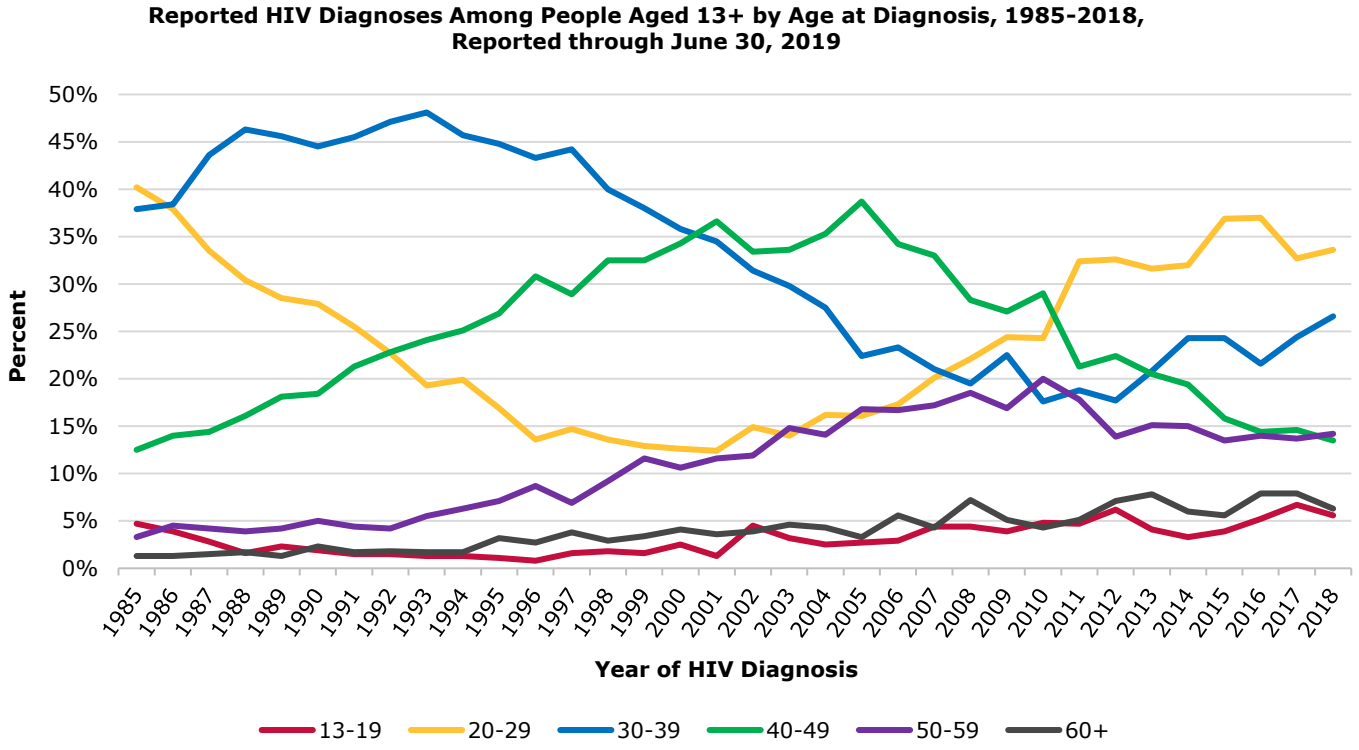
Non-Hispanic Other race not shown

Year of HIV Diagnosis	Reported HIV Diagnoses Among People Aged 13+								
	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	235	7	3.0%	126	53.6%	95	40.4%	7	3.0%
1985	448	6	1.3%	278	62.1%	152	33.9%	12	2.7%
1986	594	18	3.0%	384	64.6%	180	30.3%	12	2.0%
1987	755	14	1.9%	513	67.9%	204	27.0%	24	3.2%
1988	1,131	14	1.2%	836	73.9%	257	22.7%	24	2.1%
1989	1,428	7	0.5%	1,125	78.8%	264	18.5%	32	2.2%
1990	1,509	21	1.4%	1,158	76.7%	295	19.5%	35	2.3%
1991	1,715	33	1.9%	1,384	80.7%	258	15.0%	40	2.3%
1992	1,651	21	1.3%	1,347	81.6%	239	14.5%	44	2.7%
1993	1,518	26	1.7%	1,242	81.8%	210	13.8%	40	2.6%
1994	1,377	23	1.7%	1,143	83.0%	171	12.4%	40	2.9%
1995	1,333	22	1.7%	1,085	81.4%	192	14.4%	34	2.6%
1996	1,226	14	1.1%	1,030	84.0%	142	11.6%	40	3.3%
1997	1,268	18	1.4%	1,016	80.1%	174	13.7%	60	4.7%
1998	1,255	19	1.5%	1,029	82.0%	164	13.1%	43	3.4%
1999	1,153	32	2.8%	919	79.7%	145	12.6%	57	4.9%
2000	1,100	23	2.1%	875	79.5%	138	12.5%	64	5.8%
2001	1,194	26	2.2%	976	81.7%	138	11.6%	54	4.5%
2002	1,390	33	2.4%	1,119	80.5%	154	11.1%	84	6.0%
2003	1,206	42	3.5%	939	77.9%	158	13.1%	67	5.6%
2004	1,195	35	2.9%	938	78.5%	156	13.1%	66	5.5%
2005	1,226	40	3.3%	968	79.0%	145	11.8%	73	6.0%
2006	1,309	60	4.6%	1,013	77.4%	156	11.9%	80	6.1%
2007	1,173	39	3.3%	925	78.9%	136	11.6%	73	6.2%
2008	1,121	51	4.5%	848	75.6%	155	13.8%	67	6.0%
2009	918	43	4.7%	695	75.7%	132	14.4%	48	5.2%
2010	921	48	5.2%	679	73.7%	121	13.1%	73	7.9%
2011	709	45	6.3%	504	71.1%	117	16.5%	43	6.1%
2012	674	41	6.1%	495	73.4%	91	13.5%	47	7.0%
2013	614	34	5.5%	447	72.8%	94	15.3%	39	6.4%
2014	581	33	5.7%	437	75.2%	67	11.5%	44	7.6%
2015	539	33	6.1%	394	73.1%	78	14.5%	34	6.3%
2016	522	37	7.1%	366	70.1%	96	18.4%	23	4.4%
2017	431	24	5.6%	307	71.2%	80	18.6%	20	4.6%
2018	443	27	6.1%	335	75.6%	66	14.9%	15	3.4%
Total	35,862	1,009	2.8%	27,875	77.7%	5,420	15.1%	1,558	4.3%

Figure 6 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, 1985-2018, Reported through June 30, 2019

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 2018, as Reported through June 30, 2019

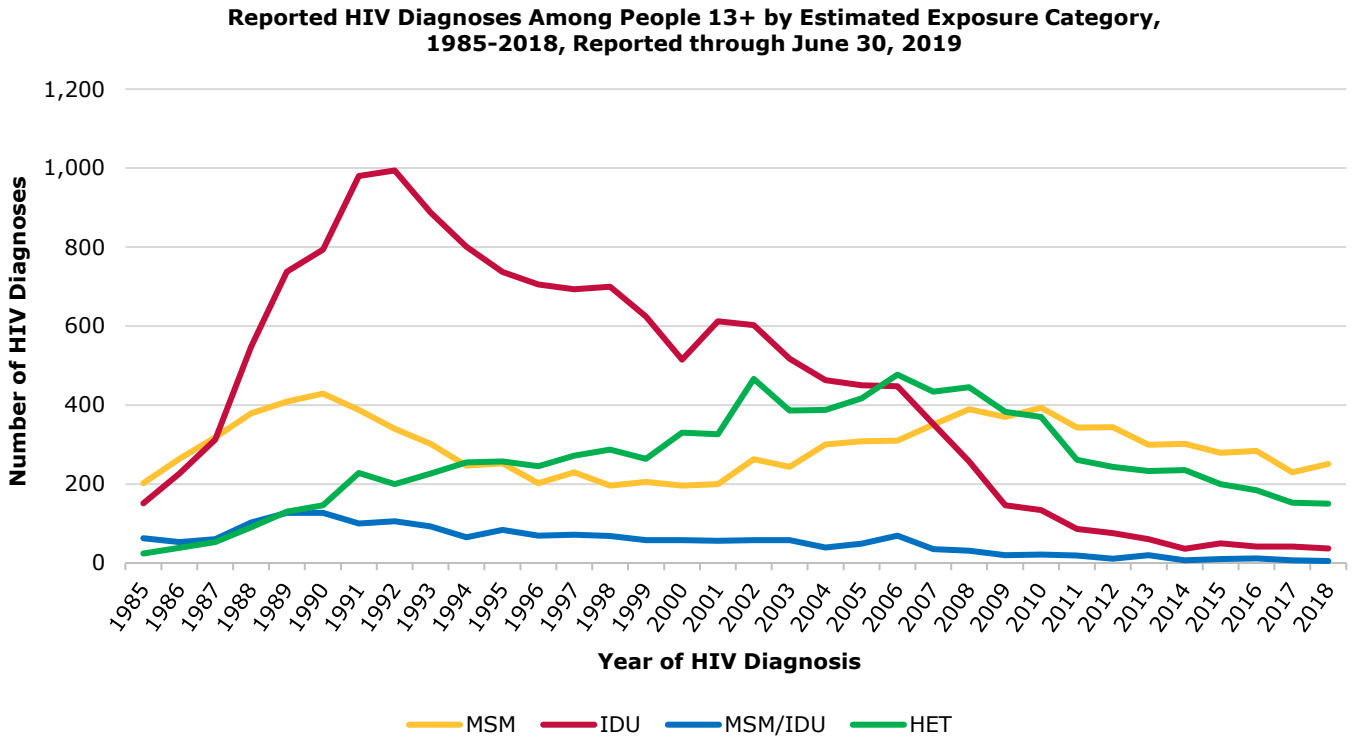


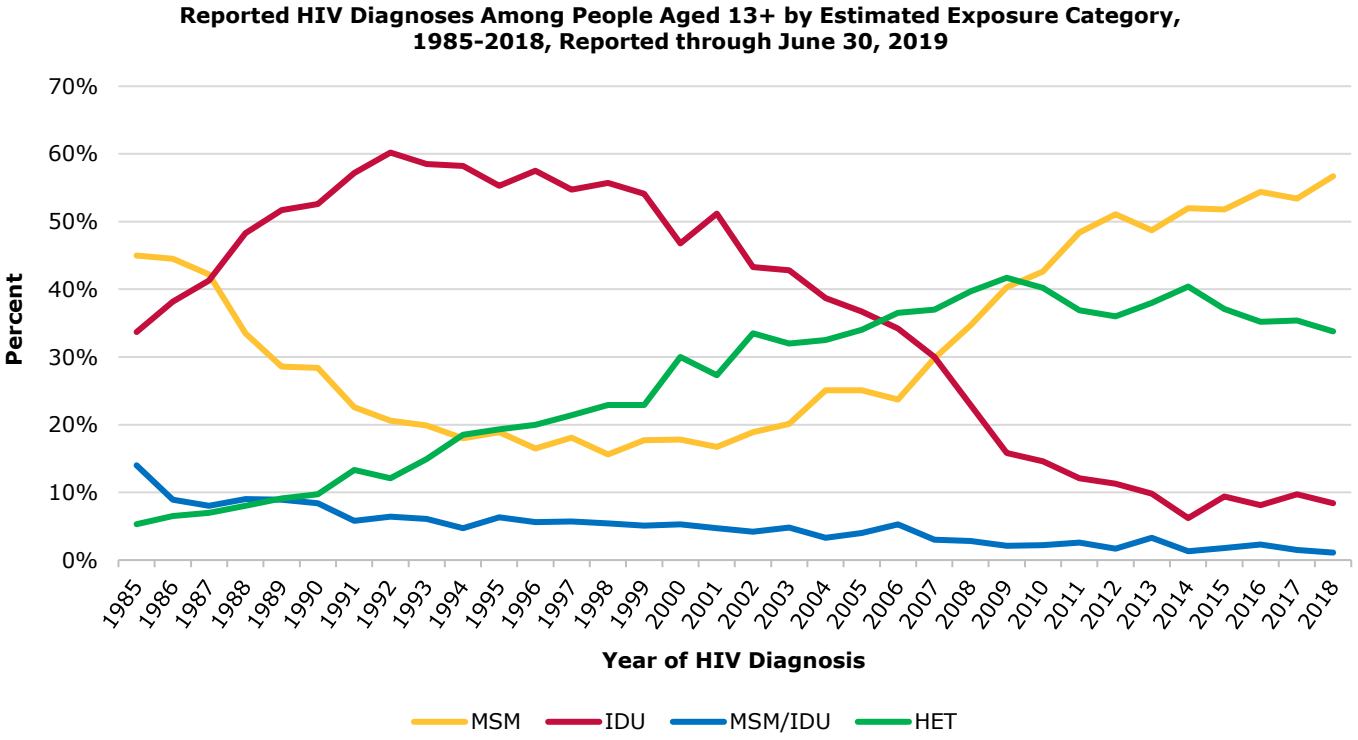


Year of HIV Diagnosis	Reported HIV Diagnoses Among People Aged 13+												
		Age at HIV Diagnosis											
	No.	13-19		20-29		30-39		40-49		50-59		60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	235	16	6.8%	101	43.0%	72	30.6%	31	13.2%	14	6.0%	1	0.4%
1985	448	21	4.7%	180	40.2%	170	37.9%	56	12.5%	15	3.3%	6	1.3%
1986	594	23	3.9%	225	37.9%	228	38.4%	83	14.0%	27	4.5%	8	1.3%
1987	755	21	2.8%	253	33.5%	329	43.6%	109	14.4%	32	4.2%	11	1.5%
1988	1,131	18	1.6%	344	30.4%	524	46.3%	182	16.1%	44	3.9%	19	1.7%
1989	1,428	33	2.3%	407	28.5%	651	45.6%	259	18.1%	60	4.2%	18	1.3%
1990	1,509	29	1.9%	421	27.9%	672	44.5%	277	18.4%	76	5.0%	34	2.3%
1991	1,715	26	1.5%	438	25.5%	780	45.5%	365	21.3%	76	4.4%	30	1.7%
1992	1,651	24	1.5%	374	22.7%	778	47.1%	376	22.8%	70	4.2%	29	1.8%
1993	1,518	19	1.3%	293	19.3%	730	48.1%	366	24.1%	84	5.5%	26	1.7%
1994	1,377	18	1.3%	274	19.9%	629	45.7%	346	25.1%	87	6.3%	23	1.7%
1995	1,333	15	1.1%	225	16.9%	597	44.8%	359	26.9%	95	7.1%	42	3.2%
1996	1,226	10	0.8%	167	13.6%	531	43.3%	378	30.8%	107	8.7%	33	2.7%
1997	1,268	20	1.6%	187	14.7%	560	44.2%	366	28.9%	87	6.9%	48	3.8%
1998	1,255	22	1.8%	171	13.6%	502	40.0%	408	32.5%	116	9.2%	36	2.9%
1999	1,153	18	1.6%	149	12.9%	438	38.0%	375	32.5%	134	11.6%	39	3.4%
2000	1,100	28	2.5%	139	12.6%	394	35.8%	377	34.3%	117	10.6%	45	4.1%
2001	1,194	16	1.3%	148	12.4%	412	34.5%	437	36.6%	138	11.6%	43	3.6%
2002	1,390	62	4.5%	207	14.9%	437	31.4%	464	33.4%	166	11.9%	54	3.9%
2003	1,206	39	3.2%	169	14.0%	359	29.8%	405	33.6%	179	14.8%	55	4.6%
2004	1,195	30	2.5%	194	16.2%	329	27.5%	422	35.3%	169	14.1%	51	4.3%
2005	1,226	33	2.7%	197	16.1%	275	22.4%	474	38.7%	206	16.8%	41	3.3%
2006	1,309	38	2.9%	227	17.3%	305	23.3%	448	34.2%	218	16.7%	73	5.6%
2007	1,173	52	4.4%	236	20.1%	246	21.0%	387	33.0%	202	17.2%	50	4.3%
2008	1,121	49	4.4%	248	22.1%	219	19.5%	317	28.3%	207	18.5%	81	7.2%
2009	918	36	3.9%	224	24.4%	207	22.5%	249	27.1%	155	16.9%	47	5.1%
2010	921	44	4.8%	224	24.3%	162	17.6%	267	29.0%	184	20.0%	40	4.3%
2011	709	33	4.7%	230	32.4%	133	18.8%	151	21.3%	126	17.8%	36	5.1%
2012	674	42	6.2%	220	32.6%	119	17.7%	151	22.4%	94	13.9%	48	7.1%
2013	614	25	4.1%	194	31.6%	128	20.8%	126	20.5%	93	15.1%	48	7.8%
2014	581	19	3.3%	186	32.0%	141	24.3%	113	19.4%	87	15.0%	35	6.0%
2015	539	21	3.9%	199	36.9%	131	24.3%	85	15.8%	73	13.5%	30	5.6%
2016	522	27	5.2%	193	37.0%	113	21.6%	75	14.4%	73	14.0%	41	7.9%
2017	431	29	6.7%	141	32.7%	105	24.4%	63	14.6%	59	13.7%	34	7.9%
2018	443	25	5.6%	149	33.6%	118	26.6%	60	13.5%	63	14.2%	28	6.3%
Total	35,862	981	2.7%	7,934	22.1%	12,524	34.9%	9,407	26.2%	3,733	10.4%	1,283	3.6%

Figure 7 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2018, Reported through June 30, 2019

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 2018, as Reported through June 30, 2019





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[§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	235	2.1%	131	55.7%	61	26.1%	26	10.9%	8	3.5%	9	3.8%
1985	448	4.2%	202	45.0%	151	33.7%	63	14.0%	24	5.3%	9	2.0%
1986	594	3.0%	264	44.5%	226	38.2%	53	8.9%	38	6.5%	12	2.0%
1987	755	2.9%	318	42.2%	312	41.3%	60	8.0%	53	7.0%	12	1.6%
1988	1,131	3.0%	379	33.5%	547	48.3%	102	9.0%	90	8.0%	13	1.1%
1989	1,428	2.6%	409	28.6%	738	51.7%	127	8.9%	130	9.1%	24	1.7%
1990	1,509	4.0%	429	28.4%	794	52.6%	127	8.4%	146	9.7%	13	0.9%
1991	1,715	3.7%	388	22.6%	980	57.2%	100	5.8%	228	13.3%	19	1.1%
1992	1,651	4.5%	340	20.6%	994	60.2%	106	6.4%	200	12.1%	12	0.7%
1993	1,518	2.8%	302	19.9%	888	58.5%	93	6.1%	226	14.9%	10	0.7%
1994	1,377	3.8%	247	18.0%	801	58.2%	65	4.7%	255	18.5%	9	0.7%
1995	1,333	4.3%	252	18.9%	737	55.3%	84	6.3%	257	19.3%	4	0.3%
1996	1,226	4.2%	202	16.5%	705	57.5%	69	5.6%	245	20.0%	5	0.4%
1997	1,268	6.2%	230	18.1%	693	54.7%	72	5.7%	272	21.4%	1	0.1%
1998	1,255	5.3%	196	15.6%	700	55.7%	68	5.4%	287	22.9%	4	0.3%
1999	1,153	7.1%	205	17.8%	623	54.1%	58	5.1%	264	23.0%	2	0.2%
2000	1,100	7.1%	196	17.8%	515	46.8%	58	5.3%	330	30.0%	1	0.1%
2001	1,194	7.8%	200	16.7%	612	51.2%	56	4.7%	326	27.3%	1	0.1%
2002	1,390	10.3%	263	18.9%	602	43.3%	58	4.2%	466	33.5%	1	0.1%
2003	1,206	9.5%	243	20.1%	517	42.8%	58	4.8%	386	32.0%	3	0.2%
2004	1,195	10.4%	300	25.1%	463	38.7%	39	3.3%	388	32.5%	5	0.4%
2005	1,226	14.4%	308	25.1%	450	36.7%	49	4.0%	417	34.0%	1	0.1%
2006	1,309	18.8%	310	23.7%	448	34.2%	69	5.3%	477	36.5%	5	0.4%
2007	1,173	19.6%	350	29.8%	352	30.0%	35	3.0%	434	37.0%	3	0.3%
2008	1,121	26.8%	389	34.7%	257	22.9%	31	2.8%	445	39.7%	0	0.0%
2009	918	27.3%	370	40.3%	146	15.8%	20	2.1%	383	41.7%	0	0.0%
2010	921	31.1%	393	42.6%	134	14.6%	21	2.2%	370	40.2%	3	0.3%
2011	709	26.0%	343	48.4%	86	12.1%	19	2.6%	261	36.9%	0	0.0%
2012	674	17.5%	344	51.1%	76	11.3%	11	1.7%	243	36.0%	0	0.0%
2013	614	11.2%	299	48.7%	60	9.8%	20	3.3%	233	38.0%	1	0.2%
2014	581	9.1%	302	52.0%	36	6.2%	7	1.3%	235	40.4%	1	0.2%
2015	539	5.6%	279	51.8%	50	9.4%	10	1.8%	200	37.1%	0	0.0%
2016	522	12.5%	284	54.4%	42	8.1%	12	2.3%	184	35.2%	0	0.0%
2017	431	10.9%	230	53.4%	42	9.7%	7	1.5%	153	35.4%	0	0.0%
2018	443	22.8%	251	56.7%	37	8.4%	5	1.1%	150	33.8%	0	0.0%
Total	35,862	9.7%	10,148	28.3%	14,875	41.5%	1,858	5.2%	8,804	24.5%	183	0.5%

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

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

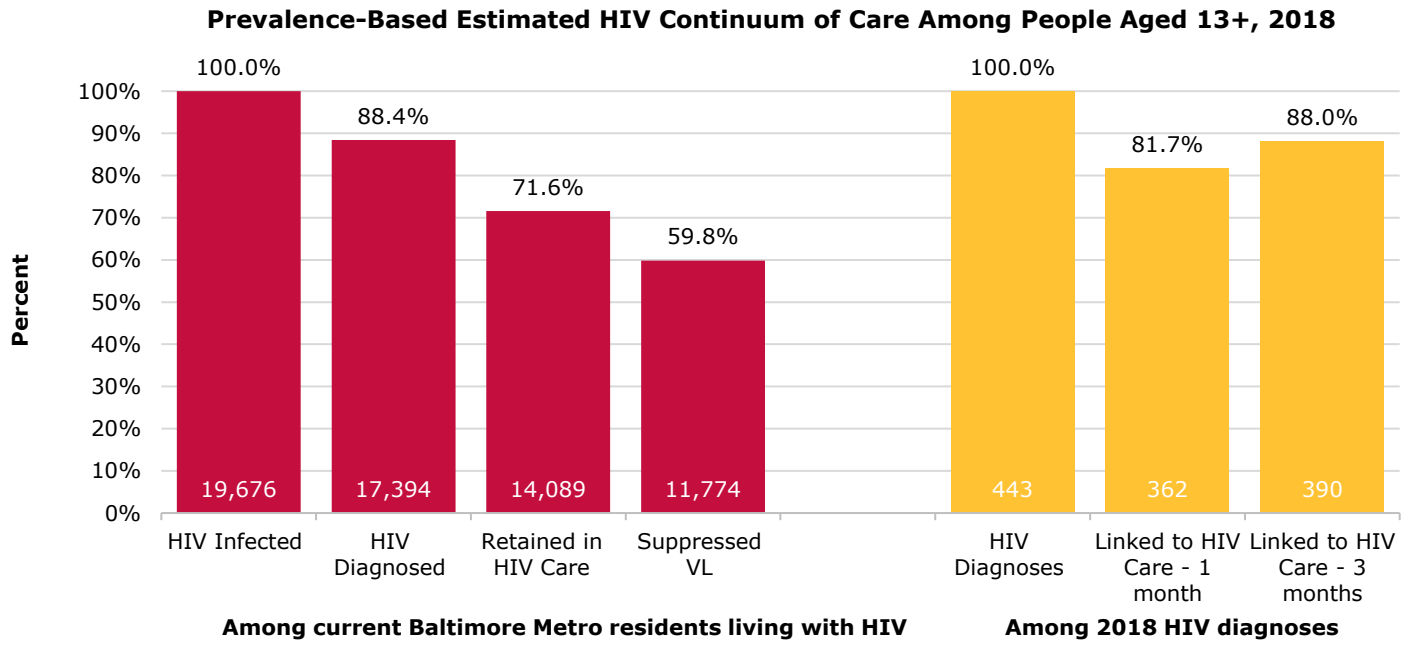
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of people missing transmission category after multiple imputation.

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 2018 HIV Continuum of Care Cascades, Among Current Baltimore Metro Residents Aged 13+, Reported through June 30, 2019

The prevalence-based Baltimore Metro 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, 2019, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of people living with HIV currently residing in the Baltimore Metro region. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Baltimore Metro region on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 who belong to each of the stages of engagement in HIV care.

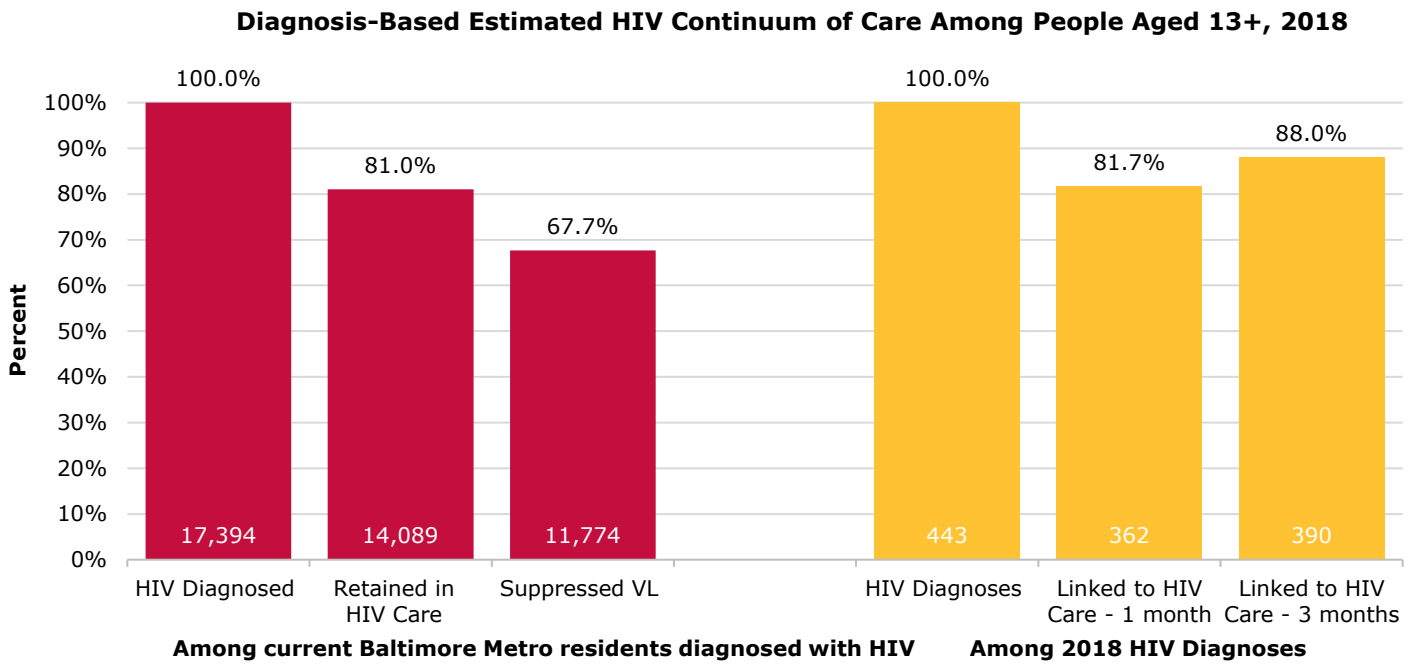


Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected	19,676	100.0%	New HIV Diagnoses	443	100.0%
HIV Diagnosed	17,394	88.4%	Linked to HIV Care – 1 Month	362	81.7%
Retained in HIV Care	14,089	71.6%	Linked to HIV Care – 3 Months	390	88.0%
Suppressed VL	11,774	59.8%			

[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.
[2] Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2010–2015. HIV Surveillance Supplemental Report 2018;23(No. 1). http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published March 2018.

Figure 9 – Diagnosis-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Baltimore Metro Residents Aged 13+, Reported through June 30, 2019

The diagnosis-based Baltimore Metro Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Baltimore Metro residents to describe the number and percentage of persons living with diagnosed HIV in the Baltimore Metro region on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 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 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Diagnosed	17,394	100.0%	New HIV Diagnoses	443	100.0%
Retained in HIV Care	14,089	81.0%	Linked to HIV Care – 1 Month	362	81.7%
Suppressed VL	11,774	67.7%	Linked to HIV Care – 3 Months	390	88.0%

Section IV –Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

Table 1 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2019

Jurisdiction of Residence at HIV Diagnosis	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 mo.	% 3 mo.	%	% with Test	Median Count
Anne Arundel	483,036	40	9.0%	8.3	92.5%	97.5%	37.5%	95.0%	380
Baltimore City	510,571	224	50.6%	43.9	78.6%	85.3%	19.2%	90.6%	407
Baltimore	699,848	120	27.1%	17.1	83.3%	88.3%	20.8%	90.0%	382
Carroll	143,269	7	1.6%	4.9	***	***	***	***	***
Harford	214,532	18	4.1%	8.4	72.2%	88.9%	***	100.0%	439
Howard	268,234	31	7.0%	11.6	93.5%	96.8%	29.0%	96.8%	396
Queen Anne's	42,794	3	0.7%	7.0	***	***	***	***	***
Total	2,362,283	443	100.0%	18.8	81.7%	88.0%	22.6%	91.4%	403

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

Table 2 – Reported AIDS Diagnoses, Among People Aged 13+ During 2018, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2019

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Reported AIDS Diagnoses Among People Aged 13+				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Anne Arundel	483,036	32	12.3%	6.6	3.5	50.0%
Baltimore City	510,571	143	55.0%	28.0	7.4	30.1%
Baltimore	699,848	59	22.7%	8.4	5.6	45.8%
Carroll	143,269	5	1.9%	3.5	***	***
Harford	214,532	7	2.7%	3.3	6.8	42.9%
Howard	268,234	13	5.0%	4.8	1.3	69.2%
Queen Anne's	42,794	1	0.4%	2.3	***	***
Total	2,362,283	260	100.0	11.0	6.1	39.6%

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

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2019

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)	
Anne Arundel	483,036	1,251	7.0%	259.0	386	1,358	7.8%	281.1	356	8.6%
Baltimore City	510,571	12,120	68.0%	2,373.8	42	11,036	63.4%	2,161.5	46	-8.9%
Baltimore	699,848	3,186	17.9%	455.2	220	3,597	20.7%	514.0	195	12.9%
Carroll	143,269	146	0.8%	101.9	981	158	0.9%	110.3	907	8.2%
Harford	214,532	460	2.6%	214.4	466	516	3.0%	240.5	416	12.2%
Howard	268,234	609	3.4%	227.0	440	681	3.9%	253.9	394	11.8%
Queen Anne's	42,794	52	0.3%	121.5	823	48	0.3%	112.2	892	-7.7%
Total	2,362,283	17,824	100.0%	754.5	133	17,394	100.0%	736.3	136	-2.4%

Table 4 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Anne Arundel	1,358	1,029	75.8%	617	8.3%	11.3%	17.0%	63.5%
Baltimore City	11,036	8,392	76.0%	594	10.3%	13.0%	15.7%	61.0%
Baltimore	3,597	2,741	76.2%	629	7.9%	11.4%	15.1%	65.6%
Carroll	158	114	72.2%	681	5.3%	13.2%	12.3%	69.3%
Harford	516	386	74.8%	598	8.5%	11.1%	19.2%	61.1%
Howard	681	517	75.9%	643	6.0%	13.3%	14.5%	66.2%
Queen Anne's	48	40	83.3%	673	7.5%	15.0%	12.5%	65.0%
Total	17,394	13,219	76.0%	606	9.4%	12.5%	15.7%	62.4%

Table 5 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Anne Arundel	1,358	1,043	76.8%	87.2%	10,450
Baltimore City	11,036	8,679	78.6%	85.4%	11,600
Baltimore	3,597	2,834	78.8%	88.4%	8,645
Carroll	158	113	71.5%	95.6%	40,700
Harford	516	390	75.6%	86.9%	14,900
Howard	681	529	77.7%	87.3%	4,330
Queen Anne's	48	39	81.3%	94.9%	44,507
Total	17,394	13,627	78.3%	86.4%	10,250

Section V – People Living with Diagnosed HIV by Age

Table 6 – Reported HIV Diagnoses During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2019

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	% with Test	Median Count
<5 (Pediatric)	167,429	1	0.2%	0.6	***	***	***	***	***
5-12 (Pediatric)	273,077	1	0.2%	0.4	***	***	***	***	***
13-19	242,910	25	5.6%	10.3	92.0%	96.0%	***	96.0%	403
20-29	378,127	149	33.5%	39.4	81.2%	88.6%	14.1%	91.3%	438
30-39	392,444	118	26.5%	30.1	78.8%	86.4%	23.7%	94.1%	405
40-49	342,718	60	13.5%	17.5	80.0%	80.0%	28.3%	80.0%	287
50-59	393,028	63	14.2%	16.0	87.3%	92.1%	38.1%	95.2%	291
60+	613,056	28	6.3%	4.6	78.6%	92.9%	28.6%	92.9%	408
Total	2,802,789	445	100.0%	15.9	81.8%	88.1%	22.5%	91.5%	404

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

Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Population	Total People Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
<5 (Pediatric)	167,429	6	0.0%	3.6	27,905
5-12 (Pediatric)	273,077	20	0.1%	7.3	13,654
13-19	242,910	84	0.5%	34.6	2,892
20-29	378,127	1,462	8.4%	386.6	259
30-39	392,444	2,973	17.1%	757.6	132
40-49	342,718	3,367	19.3%	982.4	102
50-59	393,028	5,656	32.5%	1,439.1	69
60+	613,056	3,852	22.1%	628.3	159
Total	2,802,789	17,420	100.0%	621.5	161

Table 8 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	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	84	62	73.8%	693	0.0%	12.9%	22.6%	64.5%
20-29	1,462	1,089	74.5%	603	10.1%	9.8%	15.8%	64.3%
30-39	2,973	2,215	74.5%	620	9.6%	11.5%	16.3%	62.6%
40-49	3,367	2,516	74.7%	618	9.5%	12.9%	14.3%	63.2%
50-59	5,656	4,396	77.7%	598	9.7%	12.9%	15.4%	62.1%
60+	3,852	2,941	76.3%	595	8.6%	13.2%	16.7%	61.5%
Total	17,394	13,219	76.0%	606	9.4%	12.5%	15.7%	62.4%

Table 9 – Viral Load Test Results During 2018 for People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
13-19	84	65	77.4%	81.5%	3,192
20-29	1,462	1,129	77.2%	73.8%	11,320
30-39	2,973	2,244	75.5%	81.8%	11,619
40-49	3,367	2,594	77.0%	85.5%	17,641
50-59	5,656	4,546	80.4%	88.3%	7,825
60+	3,852	3,049	79.2%	92.5%	8,535
Total	17,394	13,627	78.3%	86.4%	10,250

Section VI – People Aged 13+ Living with Diagnosed HIV by Demographics

Table 10 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, 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, 2019

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 mo.	% 3 mo.	%	% with Test	Median Count
Sex at Birth									
Male	1,126,474	331	74.7%	29.4	82.2%	87.6%	23.9%	90.9%	375
Female	1,235,809	112	25.3%	9.1	80.4%	89.3%	18.8%	92.9%	479
Gender									
Male	1,126,474	323	72.9%	28.7	82.4%	87.6%	24.1%	91.0%	375
Female	1,235,809	111	25.1%	9.0	81.1%	89.2%	18.9%	92.8%	478
Transgender Female	--	8	1.8%	--	***	***	***	***	***
Transgender Male	--	1	0.2%	--	***	***	***	***	***
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	123,440	27	6.1%	21.9	100.0%	100.0%	25.9%	96.3%	410
Non-Hispanic	2,238,843	416	93.9%	18.6	80.5%	87.3%	22.4%	91.1%	396
American Indian/Alaska Native, only	5,973	1	0.2%	16.7	***	***	***	***	***
Asian, only	137,527	6	1.4%	4.4	***	***	***	***	***
Black, only	679,865	335	75.6%	49.3	81.2%	87.8%	20.3%	91.0%	404
Native Hawaiian/Other Pacific Islander, only	1,190	0	0.0%	0.0	--	--	--	--	--
White, only	1,371,344	66	14.9%	4.8	74.2%	81.8%	25.8%	89.4%	378
Multiracial/Other	42,945	8	1.8%	18.6	87.5%	100.0%	***	100.0%	573
Total	2,362,283	443	100.0%	18.8	81.7%	88.0%	22.6%	91.4%	403
Country of Birth									
United States	2,076,832	381	86.0%	18.3	79.0%	86.4%	22.3%	90.6%	391
Foreign-Born	270,180	44	9.9%	16.3	97.7%	97.7%	31.8%	97.7%	428
Africa	--	29	6.5%	--	96.6%	96.6%	27.6%	96.6%	467
Asia	--	5	1.1%	--	100.0%	100.0%	***	100.0%	443
Caribbean	--	2	0.5%	--	***	***	***	***	***
Central America	--	6	1.4%	--	100.0%	100.0%	***	100.0%	282
Other	--	2	0.5%	--	***	***	***	***	***
Unknown	--	18	4.1%	--	100.0%	100.0%	***	94.4%	503
Total	2,347,012	443	100.0%	18.9	81.7%	88.0%	22.6%	91.4%	403

Note. Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

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

Table 11 – People Aged 13+ Living with Diagnosed HIV Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2019

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	1,126,474	11,413	65.6%	1,013.2	99
Female	1,235,809	5,981	34.4%	484.0	207
Gender					
Male	1,126,474	11,207	64.4%	994.9	101
Female	1,235,809	5,968	34.3%	482.9	207
Transgender Female	--	***	***	***	***
Transgender Male	--	***	***	***	***
Another Gender Identity	--	0	0.0%	--	--
Race/Ethnicity					
Hispanic	123,440	799	4.6%	647.3	154
Non-Hispanic	2,238,843	16,595	95.4%	741.2	135
American Indian/Alaska Native, only	5,973	9	0.1%	150.7	664
Asian, only	137,527	97	0.6%	70.5	1,418
Black, only	679,865	13,201	75.9%	1,941.7	52
Native Hawaiian/Other Pacific Islander, only	1,190	1	0.0%	84.1	1,190
White, only	1,371,344	2,277	13.1%	166.0	602
Multiracial/Other	42,945	1,010	5.8%	2,351.8	43
Total	2,362,283	17,394	100.0%	736.3	136
Country of Birth					
United States	2,076,832	16,021	92.1%	771.4	130
Foreign-Born	270,180	926	5.3%	342.7	292
Africa	--	502	2.9%	--	--
Asia	--	108	0.6%	--	--
Caribbean	--	73	0.4%	--	--
Central America	--	154	0.9%	--	--
Other	--	89	0.5%	--	--
Unknown	--	447	2.6%	--	--
Total	2,347,012	17,394	100.0%	741.1	135

Note. Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

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

Table 12 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019

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	11,413	8,518	74.6%	587	9.5%	12.9%	16.9%	60.7%
Female	5,981	4,701	78.6%	645	9.2%	11.7%	13.5%	65.6%
Gender								
Male	11,207	8,354	74.5%	586	9.5%	13.0%	16.9%	60.6%
Female	5,968	4,692	78.6%	645	9.2%	11.7%	13.5%	65.6%
Transgender Female	206	164	79.6%	626	9.1%	11.6%	14.0%	65.2%
Transgender Male	13	9	69.2%	628	0.0%	0.0%	22.2%	77.8%
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	799	593	74.2%	602	8.8%	13.0%	15.9%	62.4%
Non-Hispanic	16,595	12,626	76.1%	606	9.4%	12.5%	15.7%	62.4%
American Indian/Alaska Native, only	9	***	***	***	***	***	***	***
Asian, only	97	69	71.1%	516	4.3%	18.8%	21.7%	55.1%
Black, only	13,201	10,055	76.2%	603	9.7%	12.6%	15.7%	62.0%
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***	***	***	***
White, only	2,277	1,678	73.7%	635	7.3%	11.3%	15.6%	65.8%
Multiracial/Other	1,010	819	81.1%	600	11.0%	12.5%	15.4%	61.2%
Country of Birth								
United States	16,021	12,226	76.3%	605	9.8%	12.4%	15.6%	62.2%
Foreign-Born	926	662	71.5%	610	4.8%	13.6%	16.8%	64.8%
Africa	502	363	72.3%	601	4.4%	13.5%	17.4%	64.7%
Asia	108	74	68.5%	566	2.7%	17.6%	20.3%	59.5%
Caribbean	73	50	68.5%	704	6.0%	6.0%	18.0%	70.0%
Central America	154	113	73.4%	594	6.2%	17.7%	14.2%	61.9%
Other	89	62	69.7%	697	6.5%	8.1%	12.9%	72.6%
Unknown	447	331	74.0%	634	4.5%	11.5%	16.9%	67.1%
Total	17,394	13,219	76.0%	606	9.4%	12.5%	15.7%	62.4%

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

Table 13 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Sex at Birth					
Male	11,413	8,771	76.9%	86.9%	10,520
Female	5,981	4,856	81.2%	85.5%	10,080
Gender					
Male	11,207	8,601	76.7%	87.2%	10,786
Female	5,968	4,845	81.2%	85.5%	10,080
Transgender Female	206	170	82.5%	74.1%	7,610
Transgender Male	13	11	84.6%	81.8%	7,319
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	799	608	76.1%	88.2%	12,819
Non-Hispanic	16,595	13,019	78.5%	86.3%	10,080
American Indian/Alaska Native, only	9	***	***	***	***
Asian, only	97	73	75.3%	94.5%	96,665
Black, only	13,201	10,362	78.5%	85.3%	9,560
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***
White, only	2,277	1,746	76.7%	91.5%	17,268
Multiracial/Other	1,010	833	82.5%	87.6%	12,995
Country of Birth					
United States	16,021	12,603	78.7%	85.9%	10,300
Foreign-Born	926	682	73.7%	93.8%	9,643
Africa	502	369	73.5%	94.0%	10,550
Asia	108	79	73.1%	92.4%	2,574
Caribbean	73	53	72.6%	96.2%	40,850
Central America	154	117	76.0%	93.2%	11,119
Other	89	64	71.9%	93.8%	1,277
Unknown	447	342	76.5%	92.1%	9,320
Total	17,394	13,627	78.3%	86.4%	10,250

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

Section VII – People Living with Diagnosed HIV by Expanded Demographics

Figure 10 – Population Pyramids of Total People Living with Diagnosed HIV, by Age on December 31, 2018, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

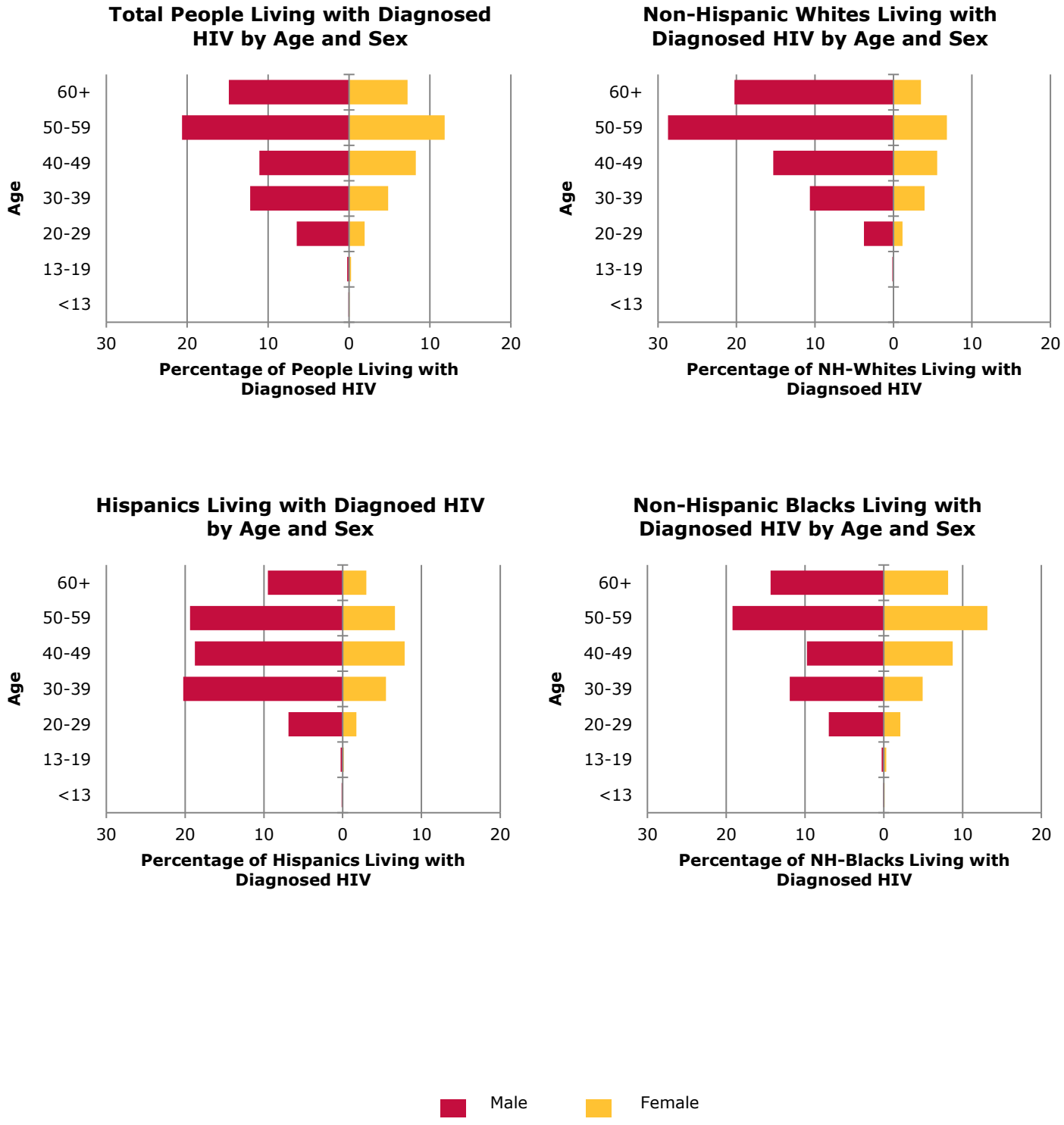


Table 14 – Total Males Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

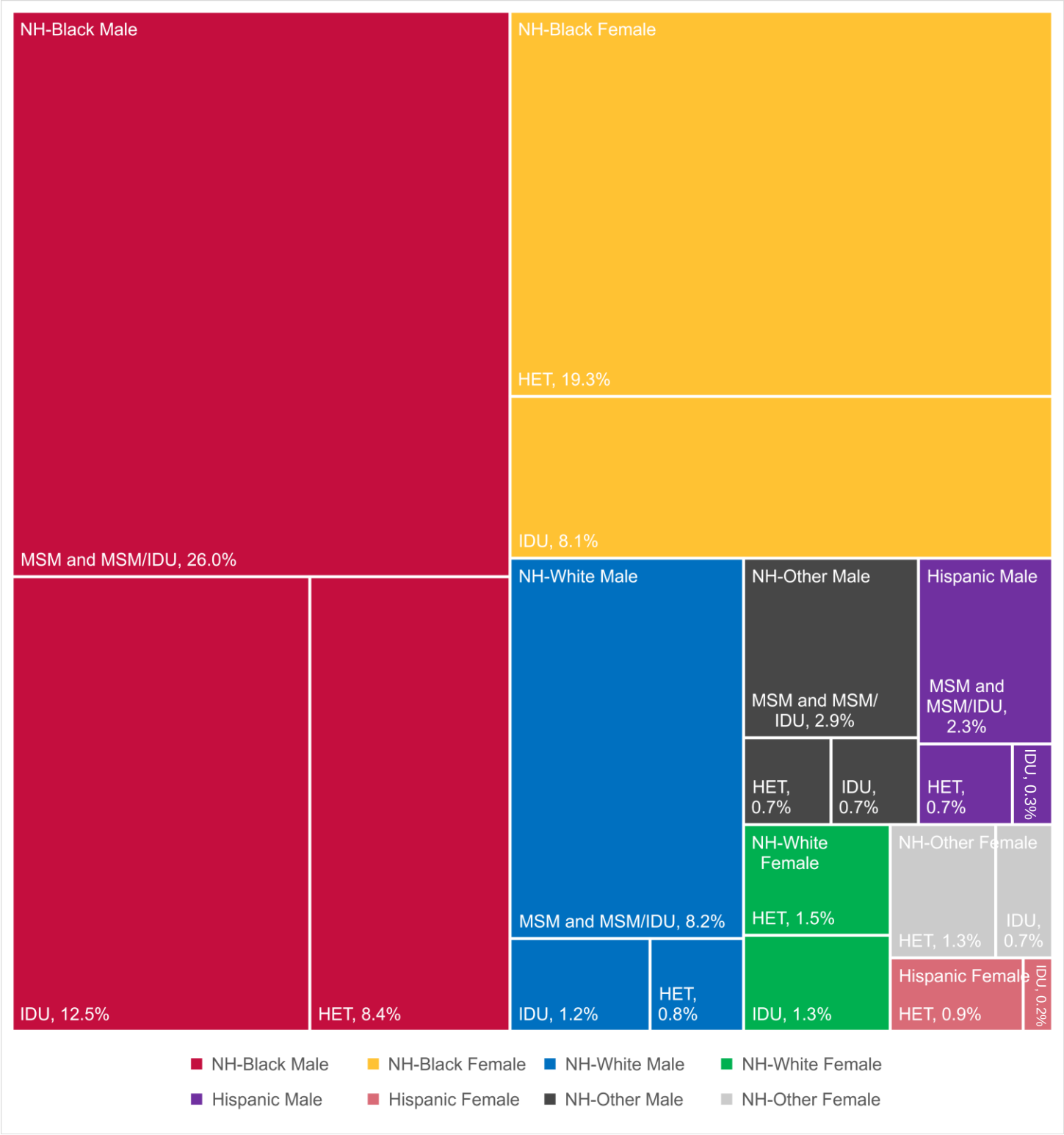
Total Males Living with Diagnosed HIV						
Age on December 31, 2018		**Race/Ethnicity**				**Total Males by Age Group**
		Hispanic	**Non-Hispanic Black, only**	**Non-Hispanic White, only**	**Non-Hispanic Other Race**	
<13 (Pediatric)	Population	23,950	70,530	103,915	26,313	224,709
	Number	1	10	2	0	13
	Rate	4.2	14.2	1.9	0.0	5.8
	Ratio (1 in X)	23,950	7,053	51,958	--	17,285
13-19	Population	9,658	39,638	61,408	13,015	123,718
	Number	2	34	3	1	40
	Rate	20.7	85.8	4.9	7.7	32.3
	Ratio (1 in X)	4,829	1,166	20,469	13,015	3,093
20-29	Population	13,176	59,523	100,143	17,111	189,953
	Number	55	924	86	62	1,127
	Rate	417.4	1,552.3	85.9	362.3	593.3
	Ratio (1 in X)	240	64	1,164	276	169
30-39	Population	16,181	51,349	104,939	17,699	190,168
	Number	162	1,577	243	149	2,131
	Rate	1,001.2	3,071.1	231.6	841.9	1,120.6
	Ratio (1 in X)	100	33	432	119	89
40-49	Population	12,306	45,857	90,801	15,657	164,621
	Number	150	1,288	349	143	1,930
	Rate	1,218.9	2,808.7	384.4	913.3	1,172.4
	Ratio (1 in X)	82	36	260	109	85
50-59	Population	7,264	50,299	118,668	11,526	187,757
	Number	155	2,537	655	248	3,595
	Rate	2,133.8	5,043.8	552.0	2,151.7	1,914.7
	Ratio (1 in X)	47	20	181	46	52
60+	Population	5,431	59,646	191,251	13,929	270,257
	Number	76	1,898	462	154	2,590
	Rate	1,399.4	3,182.1	241.6	1,105.6	958.3
	Ratio (1 in X)	71	31	414	90	104
Total Males by Race/Ethnicity	Population	87,966	376,842	771,125	115,250	1,351,183
	Number	601	8,268	1,800	757	11,426
	Rate	683.2	2,194.0	233.4	656.8	845.6
	Ratio (1 in X)	146	46	428	152	118

Table 15 – Total Females Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

Total Females Living with Diagnosed HIV						
Age on December 31, 2018		**Race/Ethnicity**				**Total Females by Age Group**
		Hispanic	**Non-Hispanic Black, only**	**Non-Hispanic White, only**	**Non-Hispanic Other Race**	
<13 (Pediatric)	Population	22,519	68,466	99,231	25,582	215,797
	Number	0	12	0	1	13
	Rate	0.0	17.5	0.0	3.9	6.0
	Ratio (1 in X)	--	5,706	--	25,582	16,600
13-19	Population	9,285	38,851	58,060	12,995	119,192
	Number	1	41	1	1	44
	Rate	10.8	105.5	1.7	7.7	36.9
	Ratio (1 in X)	9,285	948	58,060	12,995	2,709
20-29	Population	12,311	62,794	95,456	17,613	188,174
	Number	14	277	26	18	335
	Rate	113.7	441.1	27.2	102.2	178.0
	Ratio (1 in X)	879	227	3,671	979	562
30-39	Population	13,832	63,549	104,624	20,271	202,276
	Number	44	651	90	57	842
	Rate	318.1	1,024.4	86.0	281.2	416.3
	Ratio (1 in X)	314	98	1,162	356	240
40-49	Population	10,750	56,357	93,373	17,617	178,097
	Number	63	1,157	127	90	1,437
	Rate	586.0	2,053.0	136.0	510.9	806.9
	Ratio (1 in X)	171	49	735	196	124
50-59	Population	6,800	61,473	123,847	13,151	205,271
	Number	53	1,738	155	115	2,061
	Rate	779.4	2,827.3	125.2	874.5	1,004.0
	Ratio (1 in X)	128	35	799	114	100
60+	Population	6,446	90,529	228,774	17,050	342,799
	Number	24	1,079	80	79	1,262
	Rate	372.3	1,191.9	35.0	463.3	368.1
	Ratio (1 in X)	269	84	2,860	216	272
Total Females by Race/Ethnicity	Population	81,943	442,019	803,365	124,279	1,451,606
	Number	199	4,955	479	361	5,994
	Rate	242.9	1,121.0	59.6	290.5	412.9
	Ratio (1 in X)	412	89	1,677	344	242

Section VIII – HIV Exposure Category

Figure 11 – Proportion of Total People Aged 13+ Living with Diagnosed HIV, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, Reported through June 30, 2019



Note. Other exposure category and perinatal transmission not shown (<2 percent). Multiple imputation was used to estimate and adjust for missing transmission category.

Table 16 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019

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 mo.	% 3 mo.	%	% with Test	Median Count
Male-to-male Sexual Contact (MSM)	251	56.7%	80.8%	86.7%	20.9%	90.5%	395
Injection Drug Use (IDU)	37	8.4%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	5	1.1%	***	***	***	***	***
Heterosexual Contact (HET)	150	33.8%	86.6%	92.1%	25.3%	93.3%	428
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	443	100.0%	81.7%	88.0%	22.6%	91.4%	403
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	251	75.9%	80.8%	86.7%	20.9%	90.5%	395
Injection Drug Use (IDU)	22	6.7%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	5	1.5%	***	***	***	***	***
Heterosexual Contact (HET)	53	16.0%	90.9%	94.1%	35.3%	94.3%	290
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	331	100.0%	82.2%	87.6%	23.9%	90.9%	375
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	15	13.6%	55.9%	78.3%	***	94.1%	508
Heterosexual Contact (HET)	97	86.4%	84.2%	91.0%	***	92.7%	478
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	112	100.0%	80.4%	89.3%	18.7%	92.9%	479

Note. Data for 2018 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. Median count is weighted based on statistical adjustment. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

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

Table 17 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV	
	No.	**% of Total**
Male-to-male Sexual Contact (MSM)	6,079	34.9%
Injection Drug Use (IDU)	4,359	25.1%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	779	4.5%
Heterosexual Contact (HET)	5,862	33.7%
Perinatal Transmission	247	1.4%
Other Exposure	28	0.2%
No Estimated or Reported Exposure	41	0.2%
Total	17,394	100.0%
Male Estimated or Reported Exposure Category		
Male-to-male Sexual Contact (MSM)	6,079	53.3%
Injection Drug Use (IDU)	2,559	22.4%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	779	6.8%
Heterosexual Contact (HET)	1,857	16.3%
Perinatal Transmission	103	0.9%
Other Exposure	17	0.1%
No Estimated or Reported Exposure	20	0.2%
Total	11,413	100.0%
Female Estimated or Reported Exposure Category		
Injection Drug Use (IDU)	1,800	30.1%
Heterosexual Contact (HET)	4,005	67.0%
Perinatal Transmission	144	2.4%
Other Exposure	11	0.2%
No Estimated or Reported Exposure	21	0.4%
Total	5,981	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 Expansive People Supplement.

Table 18 – People Aged 13+ Living with Diagnosed HIV by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, and Reported through June 30, 2019

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)	375	46.9%	3,932	29.8%	1,329	58.4%
Injection Drug Use (IDU)	92	11.6%	3,591	27.2%	424	18.6%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	34	4.2%	580	4.4%	103	4.5%
Heterosexual Contact (HET)	289	36.2%	4,832	36.6%	398	17.5%
Perinatal Transmission	4	0.5%	219	1.7%	10	0.4%
Other Exposure	1	0.1%	13	0.1%	12	0.5%
No Estimated or Reported Exposure	4	0.5%	34	0.3%	1	0.0%
Total	799	100.0%	13,201	100.0%	2,277	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	375	62.5%	3,932	47.6%	1,329	73.9%
Injection Drug Use (IDU)	58	9.6%	2,176	26.3%	203	11.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	34	5.6%	580	7.0%	103	5.7%
Heterosexual Contact (HET)	129	21.4%	1,464	17.7%	146	8.1%
Perinatal Transmission	2	0.3%	87	1.1%	6	0.3%
Other Exposure	1	0.2%	5	0.1%	10	0.6%
No Estimated or Reported Exposure	2	0.3%	15	0.2%	1	0.1%
Total	601	100.0%	8,259	100.0%	1,798	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	35	17.4%	1,416	28.6%	221	46.2%
Heterosexual Contact (HET)	160	80.6%	3,368	68.1%	252	52.6%
Perinatal Transmission	2	1.0%	132	2.7%	4	0.8%
Other Exposure	0	0.0%	8	0.2%	2	0.4%
No Estimated or Reported Exposure	2	1.0%	19	0.4%	0	0.0%
Total	199	100.0%	4,943	100.0%	479	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 Expansive People Supplement.

Table 19 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019

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)	6,079	4,576	75.3%	629	6.6%	11.0%	15.9%	66.4%
Injection Drug Use (IDU)	4,359	3,387	77.7%	546	14.3%	14.9%	15.7%	55.1%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	779	605	77.7%	555	11.9%	12.0%	18.4%	57.6%
Heterosexual Contact (HET)	5,862	4,426	75.5%	635	7.6%	12.2%	14.9%	65.4%
Perinatal Transmission	247	180	72.9%	476	21.1%	13.3%	18.3%	47.2%
Other Exposure	28	21	75.0%	482	19.0%	14.3%	19.0%	47.6%
No Estimated or Reported Exposure	41	24	58.5%	495	20.8%	12.5%	16.7%	50.0%
Total	17,394	13,219	76.0%	606	9.4%	12.5%	15.7%	62.4%

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 20 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019

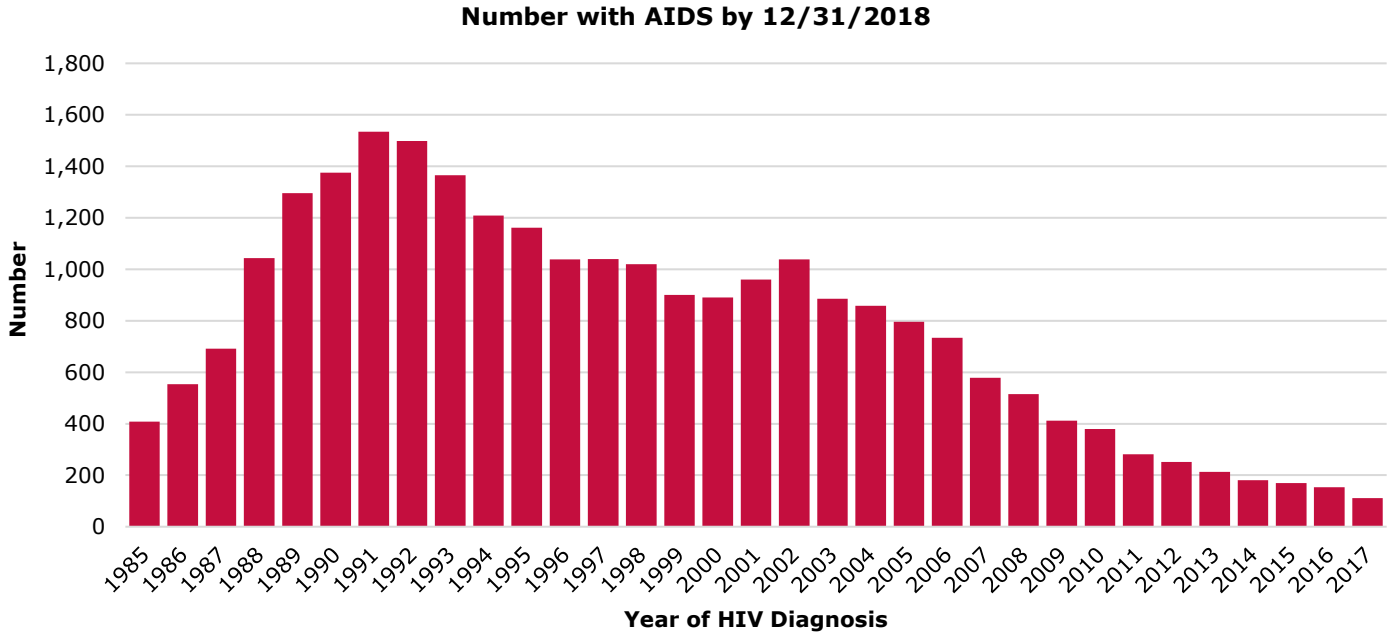
Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male-to-male Sexual Contact (MSM)	6,079	4,730	77.8%	87.6%	12,900
Injection Drug Use (IDU)	4,359	3,476	79.8%	85.0%	12,295
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	779	617	79.2%	87.2%	5,740
Heterosexual Contact (HET)	5,862	4,564	77.9%	87.0%	8,280
Perinatal Transmission	247	193	78.1%	70.5%	14,800
Other Exposure	28	21	75.0%	95.2%	11,190
No Estimated or Reported Exposure	41	26	63.4%	57.7%	8,550
Total	17,394	13,627	78.3%	86.4%	10,250

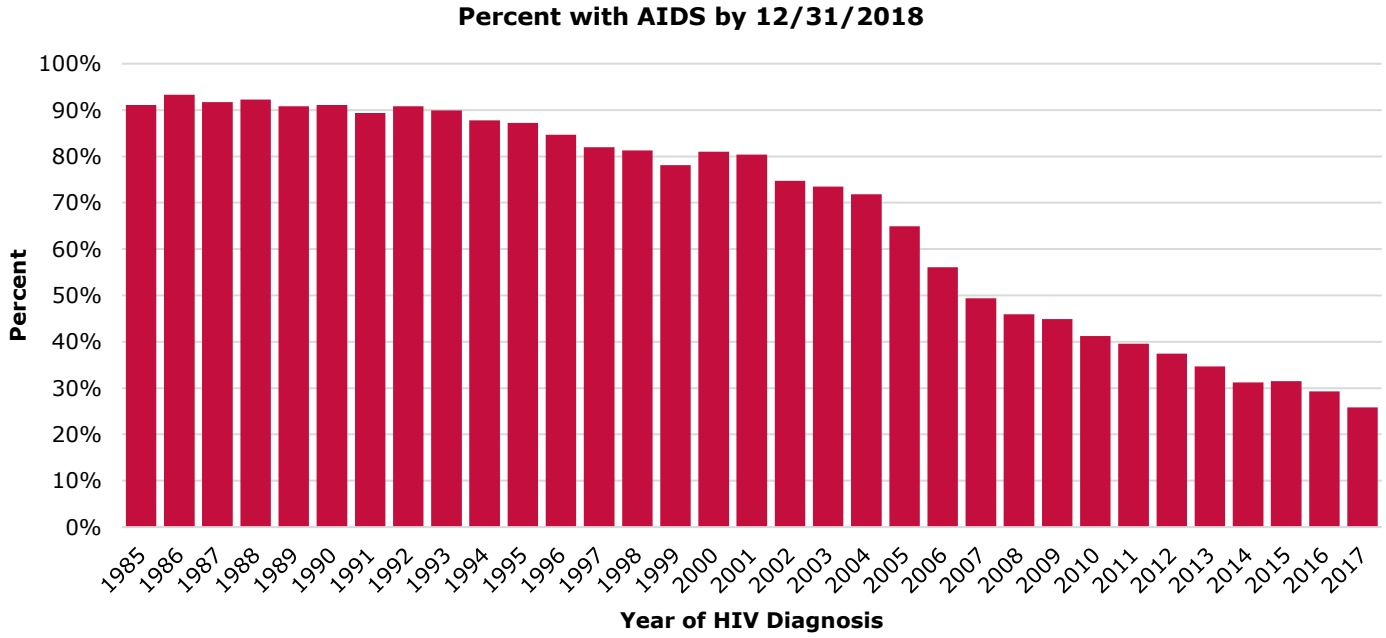
Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

Section IX – Disease Progression and Mortality

Figure 12 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2017, Reported through June 30, 2019

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, 2018 (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, 2018, 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 2017, Reported through June 30, 2019

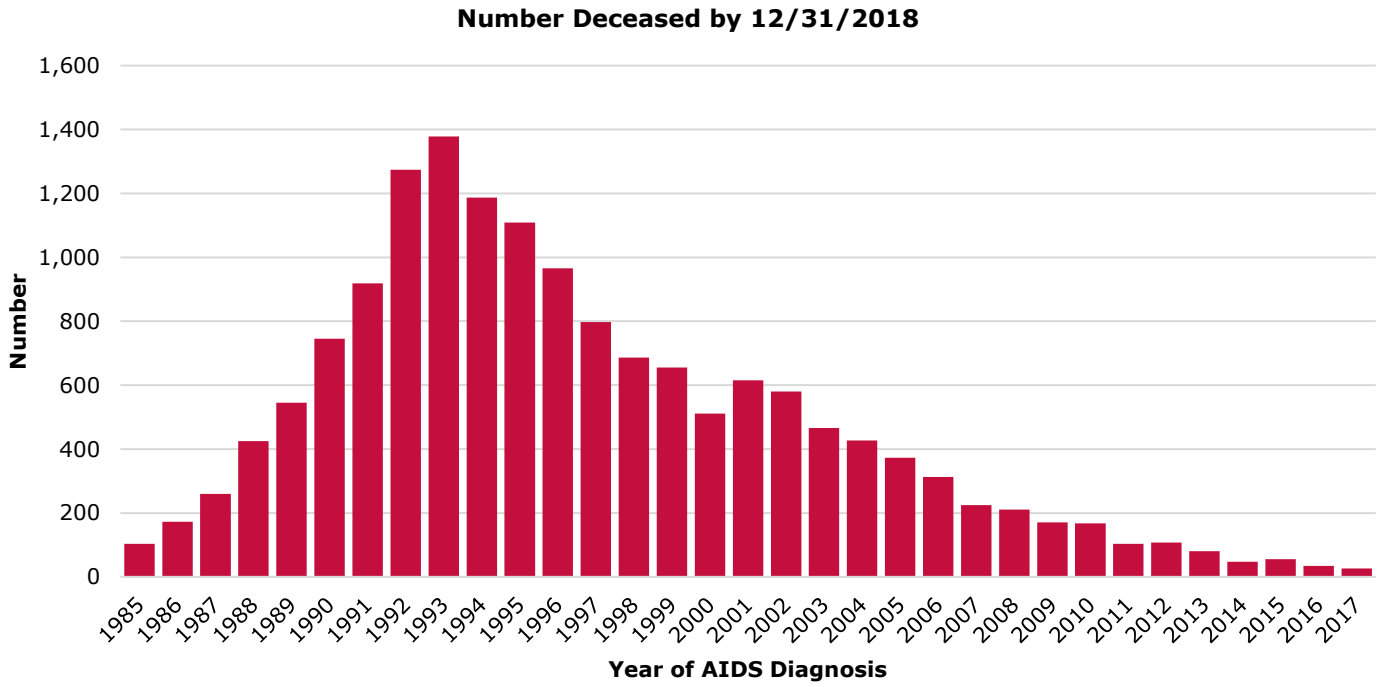


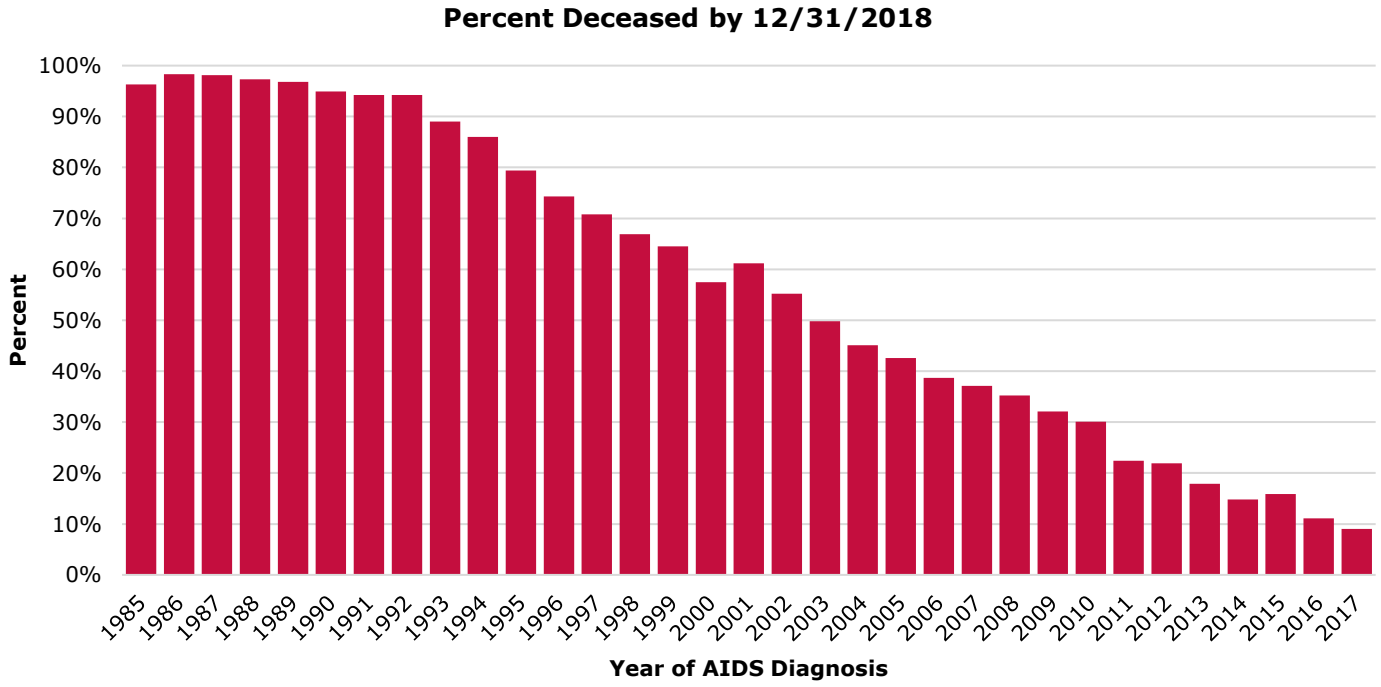


Year of HIV Diagnosis	Reported HIV Diagnoses Among People Aged 13+							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	235	229	97.4%	7.1	34.0%	34.0%	37.4%	68.9%
1985	448	408	91.1%	6.6	25.9%	27.5%	35.5%	74.6%
1986	594	554	93.3%	5.6	32.8%	33.8%	46.0%	80.1%
1987	755	692	91.7%	4.7	33.5%	37.1%	54.3%	82.3%
1988	1,131	1,044	92.3%	3.9	38.2%	42.0%	63.8%	85.9%
1989	1,428	1,296	90.8%	3.6	38.4%	44.0%	67.4%	83.4%
1990	1,509	1,375	91.1%	3.1	43.9%	50.8%	73.4%	85.2%
1991	1,715	1,534	89.4%	2.7	46.5%	56.0%	73.6%	84.1%
1992	1,651	1,499	90.8%	2.7	50.7%	58.9%	75.5%	84.4%
1993	1,518	1,365	89.9%	2.2	54.5%	62.5%	76.8%	85.6%
1994	1,377	1,209	87.8%	2.4	53.7%	61.4%	74.1%	82.6%
1995	1,333	1,162	87.2%	2.3	56.7%	62.4%	72.5%	82.1%
1996	1,226	1,038	84.7%	2.0	59.3%	64.1%	71.6%	80.3%
1997	1,268	1,040	82.0%	2.2	54.3%	59.3%	68.6%	77.2%
1998	1,255	1,020	81.3%	2.1	55.8%	59.6%	68.2%	76.6%
1999	1,153	901	78.1%	1.8	55.9%	60.0%	68.3%	74.8%
2000	1,100	891	81.0%	1.9	55.7%	59.9%	69.6%	77.4%
2001	1,194	960	80.4%	1.7	58.2%	62.1%	71.2%	76.5%
2002	1,390	1,039	74.7%	1.9	53.0%	56.4%	64.0%	70.7%
2003	1,206	886	73.5%	1.7	53.6%	57.6%	63.5%	70.3%
2004	1,195	858	71.8%	1.8	51.2%	55.3%	61.8%	68.7%
2005	1,226	796	64.9%	1.7	45.8%	49.0%	55.9%	62.9%
2006	1,309	734	56.1%	1.9	37.8%	40.1%	47.3%	54.0%
2007	1,173	579	49.4%	2.3	29.3%	32.5%	40.2%	47.7%
2008	1,121	515	45.9%	1.9	28.4%	31.8%	39.4%	45.3%
2009	918	412	44.9%	1.8	28.0%	30.9%	39.0%	--
2010	921	379	41.2%	1.8	25.7%	28.6%	36.0%	--
2011	709	281	39.6%	1.4	26.9%	31.0%	35.8%	--
2012	674	252	37.4%	1.0	28.2%	30.4%	35.9%	--
2013	614	213	34.7%	0.7	28.7%	30.1%	34.5%	--
2014	581	181	31.2%	0.7	25.0%	27.7%	--	--
2015	539	170	31.5%	0.5	26.2%	29.1%	--	--
2016	522	153	29.3%	0.4	25.5%	28.0%	--	--
2017	431	111	25.8%	0.2	24.4%	--	--	--
Total	35,419	25,776	72.8%	2.5	44.1%	48.6%	59.3%	68.6%

Figure 13 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2017, Reported through June 30, 2019

Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Number of Reported AIDS Diagnosis Among People Aged 13+ Reported to Have Died of Any Cause by December 31, 2018 (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, 2018, 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 2017, Reported through June 30, 2019





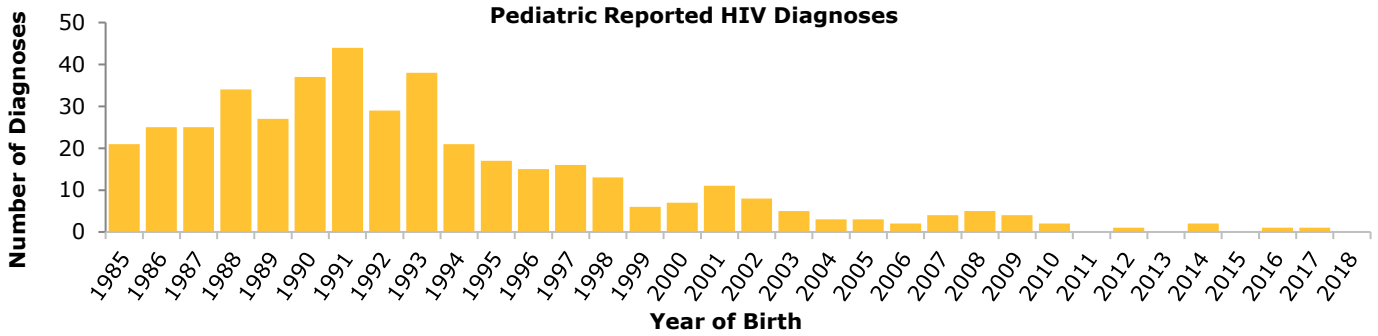
Year of AIDS Diagnosis	Reported AIDS Diagnoses Among People Aged 13+							
		Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
	No.	No.	% Deceased	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	76	72	94.7%	2.5	52.6%	32.9%	15.8%	13.2%
1985	107	103	96.3%	1.9	43.0%	22.4%	9.3%	7.5%
1986	175	172	98.3%	2.6	54.3%	36.0%	14.9%	8.6%
1987	265	260	98.1%	2.2	61.9%	33.2%	11.3%	5.3%
1988	437	425	97.3%	2.5	59.3%	39.4%	14.2%	6.9%
1989	563	545	96.8%	2.7	60.7%	39.3%	15.6%	8.0%
1990	785	745	94.9%	3.0	65.7%	46.4%	20.0%	11.6%
1991	976	919	94.2%	2.9	67.6%	46.1%	18.0%	12.1%
1992	1,352	1,274	94.2%	3.2	70.3%	48.6%	19.9%	13.8%
1993	1,548	1,378	89.0%	3.9	77.5%	55.2%	32.2%	20.8%
1994	1,380	1,187	86.0%	4.1	77.1%	58.2%	37.8%	23.8%
1995	1,396	1,109	79.4%	5.1	78.4%	66.1%	49.1%	35.2%
1996	1,300	966	74.3%	5.6	81.9%	74.7%	57.3%	41.1%
1997	1,126	797	70.8%	5.9	85.3%	77.3%	60.7%	44.3%
1998	1,025	686	66.9%	5.9	87.1%	80.2%	64.1%	47.3%
1999	1,016	655	64.5%	5.7	87.1%	79.8%	64.2%	48.6%
2000	889	511	57.5%	5.1	85.8%	80.2%	64.8%	52.5%
2001	1,005	615	61.2%	5.0	85.6%	76.8%	62.2%	50.0%
2002	1,051	580	55.2%	5.5	88.2%	82.6%	70.1%	56.7%
2003	936	466	49.8%	4.3	83.8%	78.0%	67.0%	57.7%
2004	946	427	45.1%	4.5	87.5%	82.9%	72.2%	62.1%
2005	876	373	42.6%	4.6	88.4%	83.4%	74.1%	64.8%
2006	808	313	38.7%	4.0	88.4%	83.7%	74.4%	64.5%
2007	607	225	37.1%	3.8	88.3%	84.8%	76.1%	64.9%
2008	599	211	35.2%	3.4	89.0%	84.0%	75.0%	65.4%
2009	530	170	32.1%	3.4	90.8%	86.6%	77.5%	--
2010	555	167	30.1%	3.2	90.3%	87.2%	79.8%	--
2011	459	103	22.4%	2.8	93.9%	90.8%	82.4%	--
2012	489	107	21.9%	2.1	90.4%	88.3%	80.8%	--
2013	448	80	17.9%	2.1	94.2%	90.2%	83.3%	--
2014	318	47	14.8%	1.0	91.2%	87.4%	--	--
2015	345	55	15.9%	1.0	90.4%	87.2%	--	--
2016	305	34	11.1%	0.4	91.1%	88.9%	--	--
2017*	288	26	9.0%	0.6	94.1%	--	--	--
Total	24,981	15,803	63.3%	4.2	81.6%	70.9%	55.1%	44.8%

*2017 AIDS deaths are preliminary

Section X – Pediatrics

Figure 14 – Trends in Reported HIV Diagnoses Among People Aged <13, 1985-2018, Reported through June 30, 2019

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 2018, as Reported by Name through June 30, 2019



Year	Pediatric Reported HIV Diagnoses				Total Living Pediatric Diagnoses Alive on December 31st of Each Year
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	
<1985	25	2	1	0	--
1985	21	7	5	1	9
1986	25	8	6	4	13
1987	25	15	10	5	23
1988	34	23	15	4	42
1989	27	29	19	5	66
1990	37	36	16	5	98
1991	44	38	26	8	127
1992	29	47	29	9	165
1993	38	45	25	12	198
1994	21	31	19	12	217
1995	17	19	15	12	223
1996	15	20	12	14	230
1997	16	10	6	6	234
1998	13	14	10	3	244
1999	6	14	6	4	254
2000	7	9	2	0	263
2001	11	9	8	3	268
2002	8	5	4	4	270
2003	5	2	2	2	269
2004	3	5	2	3	272
2005	3	1	1	0	274
2006	2	6	3	2	279
2007	4	31	6	4	306
2008	5	8	7	3	311
2009	4	6	3	2	316
2010	2	1	7	4	313
2011	0	2	5	4	312
2012	1	2	3	3	311
2013	0	1	9	1	312
2014	2	2	3	0	315
2015	0	0	2	3	313
2016	1	1	4	2	309
2017	1	1	2	3	307
2018	0	2	5	0	309
Total	452	452	298	147	--

Table 21 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

Jurisdiction of Current Residence	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Anne Arundel	1	3.8%
Baltimore City	13	50.0%
Baltimore	7	26.9%
Carroll	2	7.7%
Harford	2	7.7%
Howard	1	3.8%
Queen Anne's	0	0.0%
Total	26	100.0%

Table 22 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2019

Demographic Characteristic	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Sex at Birth		
Male	13	50.0%
Female	13	50.0%
Race/Ethnicity		
Hispanic	1	3.8%
Non-Hispanic	25	96.2%
American Indian/Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	22	84.6%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	2	7.7%
Multiracial/Other	1	3.8%
Total	26	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.

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.

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.

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 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, 2018.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2018.

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.

Transgender Female: A person whose sex assigned at birth is male but who identify as a woman.

Transgender Male: A person whose sex assigned at birth is female but who identify as a man.

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

Women of Childbearing Age Living with Diagnosed HIV: Reported HIV diagnoses among women of childbearing age (13-49 years old).