2018

Suburban 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
Prevention and Health Promotion Administration
http://phpa.health.maryland.gov/OIDEOR/CHSE
1-800-358-9001

Acknowledgements

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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
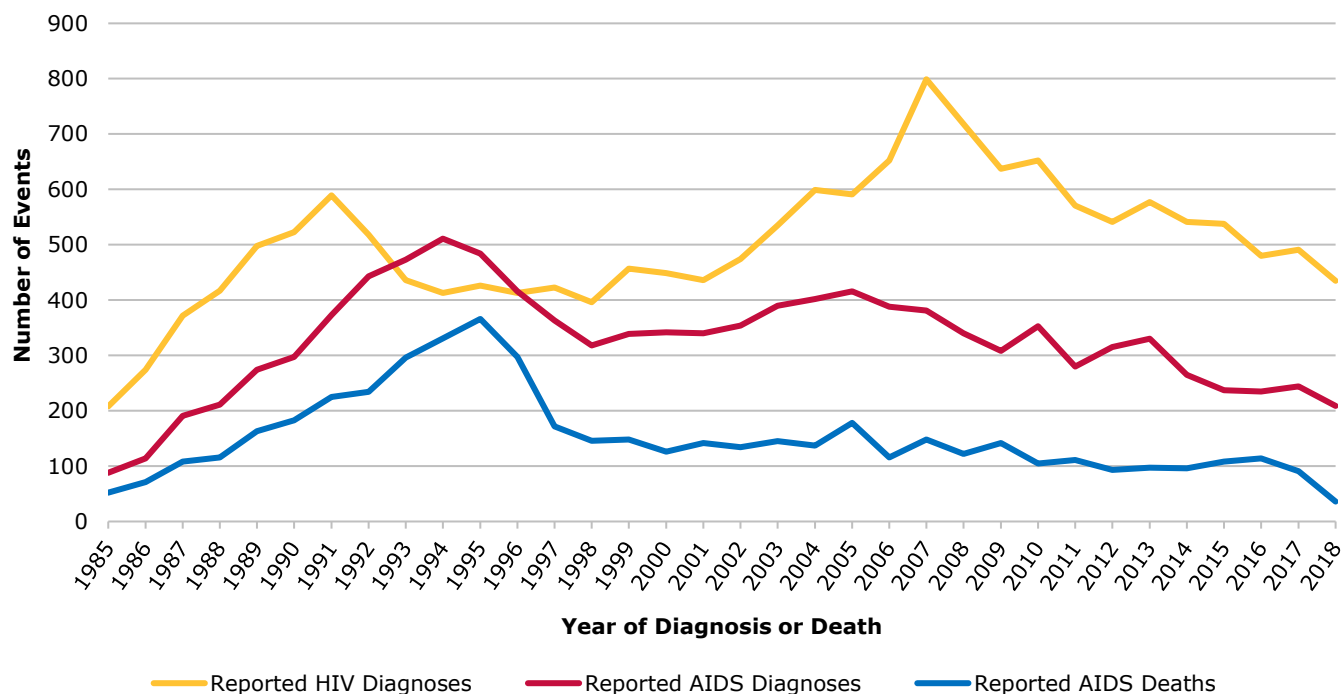
Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	113	55	27	2002	474	354	134
1985	208	88	52	2003	535	390	145
1986	274	114	71	2004	599	402	137
1987	372	191	108	2005	591	416	178
1988	417	211	116	2006	652	388	116
1989	498	274	163	2007	799	381	148
1990	523	297	183	2008	718	340	122
1991	589	373	225	2009	637	308	142
1992	518	443	234	2010	652	353	105
1993	436	473	296	2011	571	280	111
1994	413	511	331	2012	541	315	93
1995	426	484	366	2013	577	330	97
1996	413	416	297	2014	541	265	96
1997	423	363	172	2015	538	237	108
1998	396	318	146	2016	480	235	114
1999	457	339	148	2017*	491	244	91
2000	449	342	126	2018*	435	209	36
2001	436	340	142	Total	17,192	11,079	5,176

*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
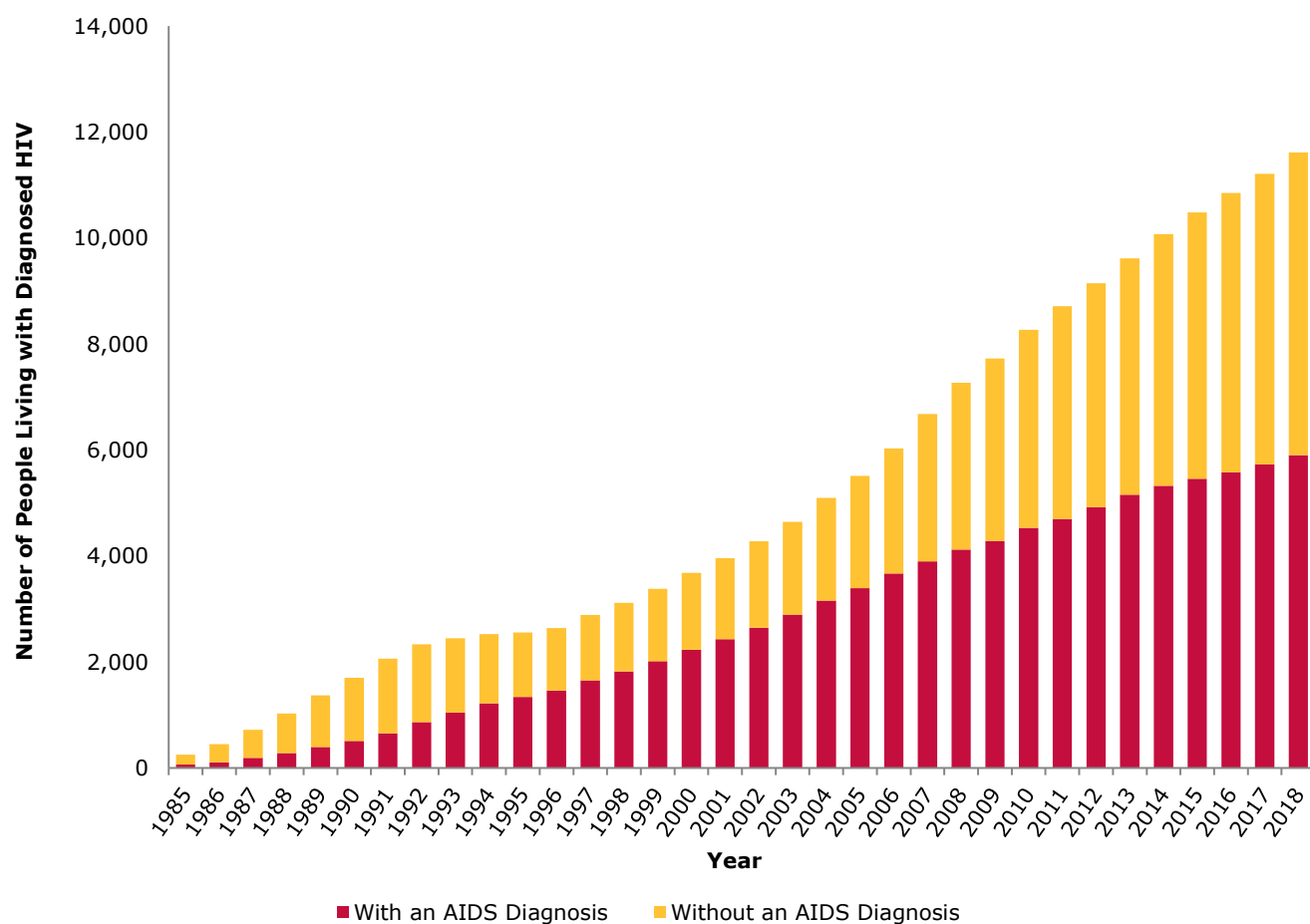
Year	People Living with Diagnosed HIV			Year	People Living with Diagnosed HIV		
	without an AIDS Diagnosis	with an AIDS Diagnosis	Total		without an AIDS Diagnosis	with an AIDS Diagnosis	Total
1985	188	63	251	**2002**	1,630	2,648	4,278
1986	346	106	452	**2003**	1,749	2,893	4,642
1987	534	189	723	**2004**	1,936	3,158	5,094
1988	742	284	1,026	**2005**	2,116	3,396	5,512
1989	975	395	1,370	**2006**	2,361	3,668	6,029
1990	1,195	509	1,704	**2007**	2,778	3,901	6,679
1991	1,406	657	2,063	**2008**	3,150	4,119	7,269
1992	1,468	866	2,334	**2009**	3,443	4,285	7,728
1993	1,404	1,043	2,447	**2010**	3,734	4,533	8,267
1994	1,303	1,223	2,526	**2011**	4,012	4,702	8,714
1995	1,218	1,341	2,559	**2012**	4,225	4,924	9,149
1996	1,182	1,460	2,642	**2013**	4,459	5,157	9,616
1997	1,234	1,651	2,885	**2014**	4,748	5,326	10,074
1998	1,294	1,823	3,117	**2015**	5,027	5,455	10,482
1999	1,369	2,014	3,383	**2016**	5,273	5,576	10,849
2000	1,449	2,230	3,679	**2017**	5,480	5,729	11,209
2001	1,533	2,428	3,961	**2018**	5,711	5,902	11,613

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 Suburban Region and Not Reported to have Died as of December 31st of Each Year from 2009 through 2018, as Reported through June 30, 2019

Legend: ■ Diagnosed with HIV in Maryland   ■ Diagnosed with HIV Outside of Maryland
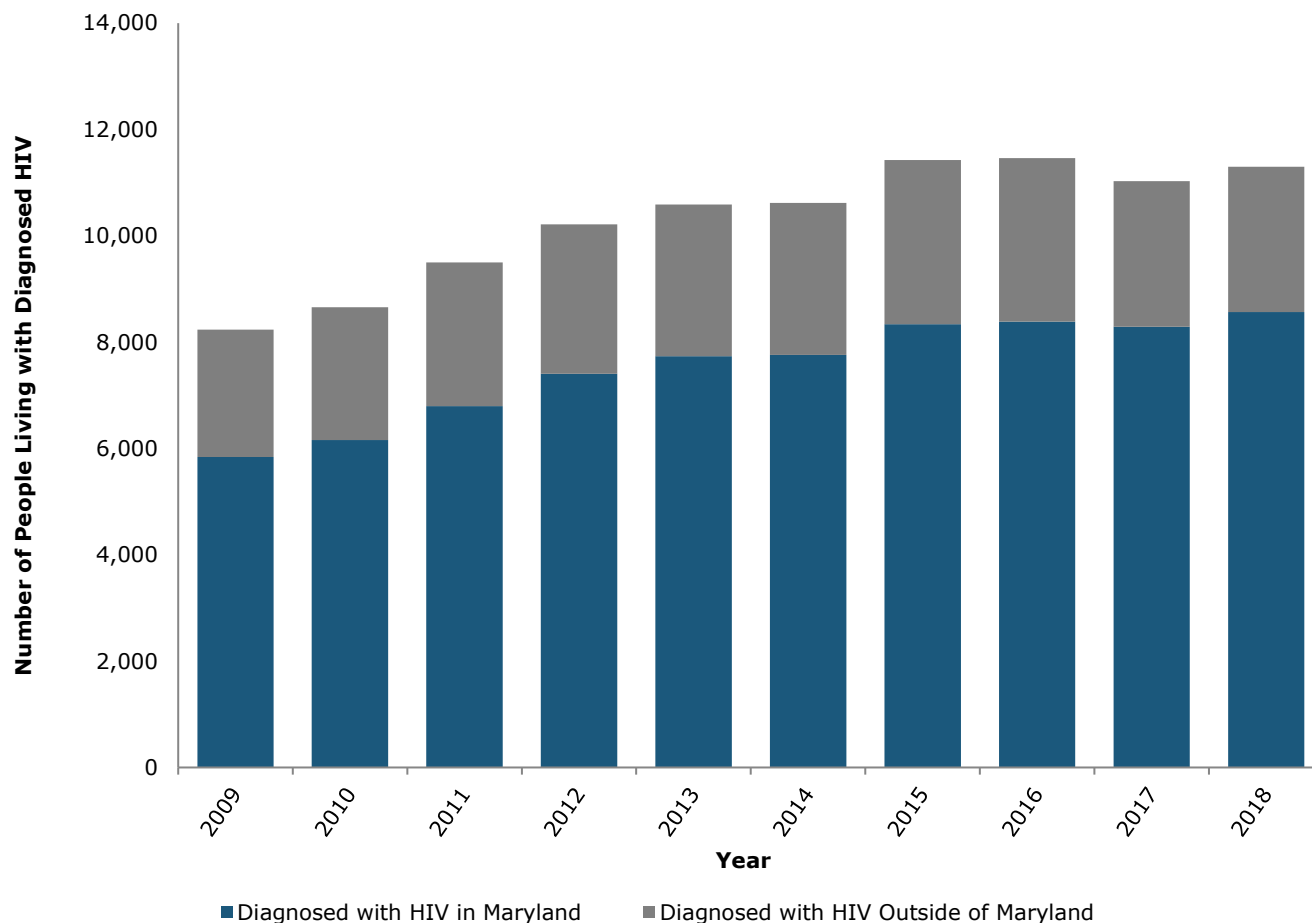
| Year | Population Age 13+ | Suburban Region Residents Aged 13+ as of December 31st of the Specified Year | | | |
		Diagnosed with HIV in Maryland	Diagnosed with HIV Outside of Maryland	Total	Rate
2009	1,503,762	5,837	2,396	8,233	547.5
2010	1,527,843	6,157	2,500	8,657	566.6
2011	1,549,018	6,795	2,704	9,499	613.2
2012	1,569,344	7,407	2,811	10,218	651.1
2013	1,586,070	7,735	2,855	10,590	667.7
2014	1,600,393	7,760	2,857	10,617	663.4
2015	1,614,468	8,337	3,091	11,428	707.8
2016	1,622,539	8,385	3,076	11,461	706.4
2017	1,631,810	8,290	2,736	11,026	675.7
2018	1,637,871	8,565	2,734	11,299	689.9

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

Reported HIV Diagnoses Among People Aged 13+ by Sex at Birth, 1985-2018, Reported through June 30, 2019

Reported HIV Diagnoses Among People Aged 13+ by Sex at Birth, 1985-2018, Reported through June 30, 2019
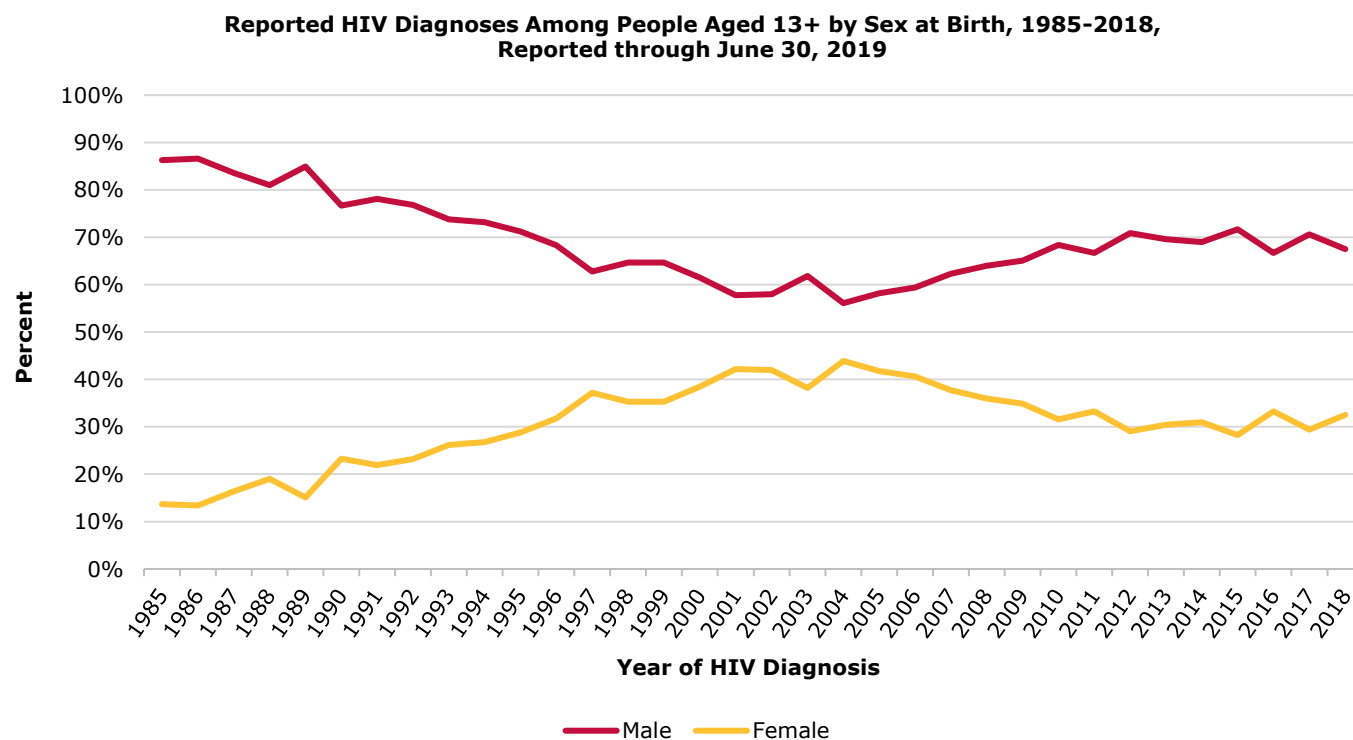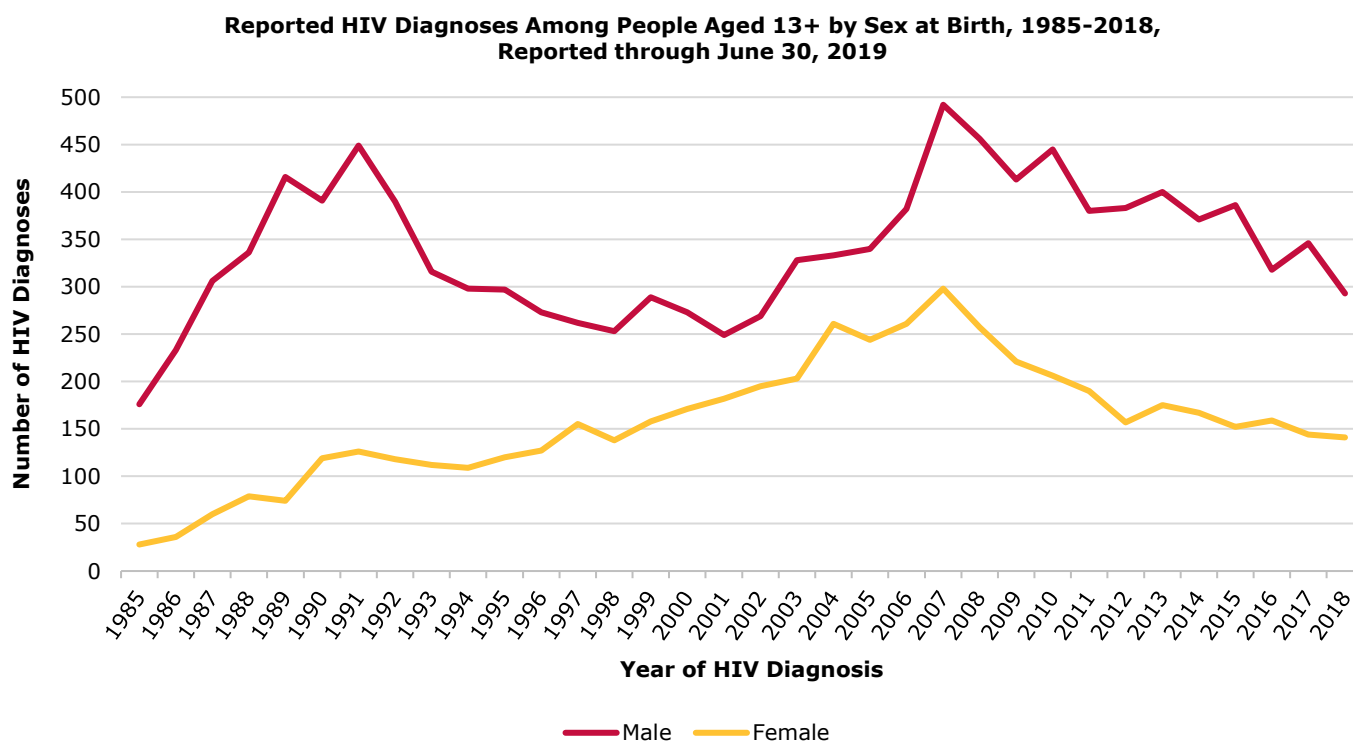
Year of HIV Diagnosis	Number	Reported HIV Diagnoses Among People Aged 13+			
		Sex at Birth			
		Male		Female	
		Number	Percent	Number	Percent
<1985	111	100	90.1%	11	9.9%
1985	204	176	86.3%	28	13.7%
1986	269	233	86.6%	36	13.4%
1987	366	306	83.6%	60	16.4%
1988	415	336	81.0%	79	19.0%
1989	490	416	84.9%	74	15.1%
1990	510	391	76.7%	119	23.3%
1991	575	449	78.1%	126	21.9%
1992	508	390	76.8%	118	23.2%
1993	428	316	73.8%	112	26.2%
1994	407	298	73.2%	109	26.8%
1995	417	297	71.2%	120	28.8%
1996	400	273	68.3%	127	31.8%
1997	417	262	62.8%	155	37.2%
1998	391	253	64.7%	138	35.3%
1999	447	289	64.7%	158	35.3%
2000	444	273	61.5%	171	38.5%
2001	431	249	57.8%	182	42.2%
2002	464	269	58.0%	195	42.0%
2003	531	328	61.8%	203	38.2%
2004	594	333	56.1%	261	43.9%
2005	584	340	58.2%	244	41.8%
2006	643	382	59.4%	261	40.6%
2007	790	492	62.3%	298	37.7%
2008	713	456	64.0%	257	36.0%
2009	634	413	65.1%	221	34.9%
2010	651	445	68.4%	206	31.6%
2011	570	380	66.7%	190	33.3%
2012	540	383	70.9%	157	29.1%
2013	575	400	69.6%	175	30.4%
2014	538	371	69.0%	167	31.0%
2015	538	386	71.7%	152	28.3%
2016	477	318	66.7%	159	33.3%
2017	490	346	70.6%	144	29.4%
2018	434	293	67.5%	141	32.5%
Total	16,996	11,642	68.5%	5,354	31.5%

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

Reported HIV Diagnoses Among People Aged 13+ by Race/Ethnicity, 1985-2018, Reported through June 30, 2019

Reported HIV Diagnoses Among People Aged 13+ by Race/Ethnicity, 1985-2018, Reported through June 30, 2019
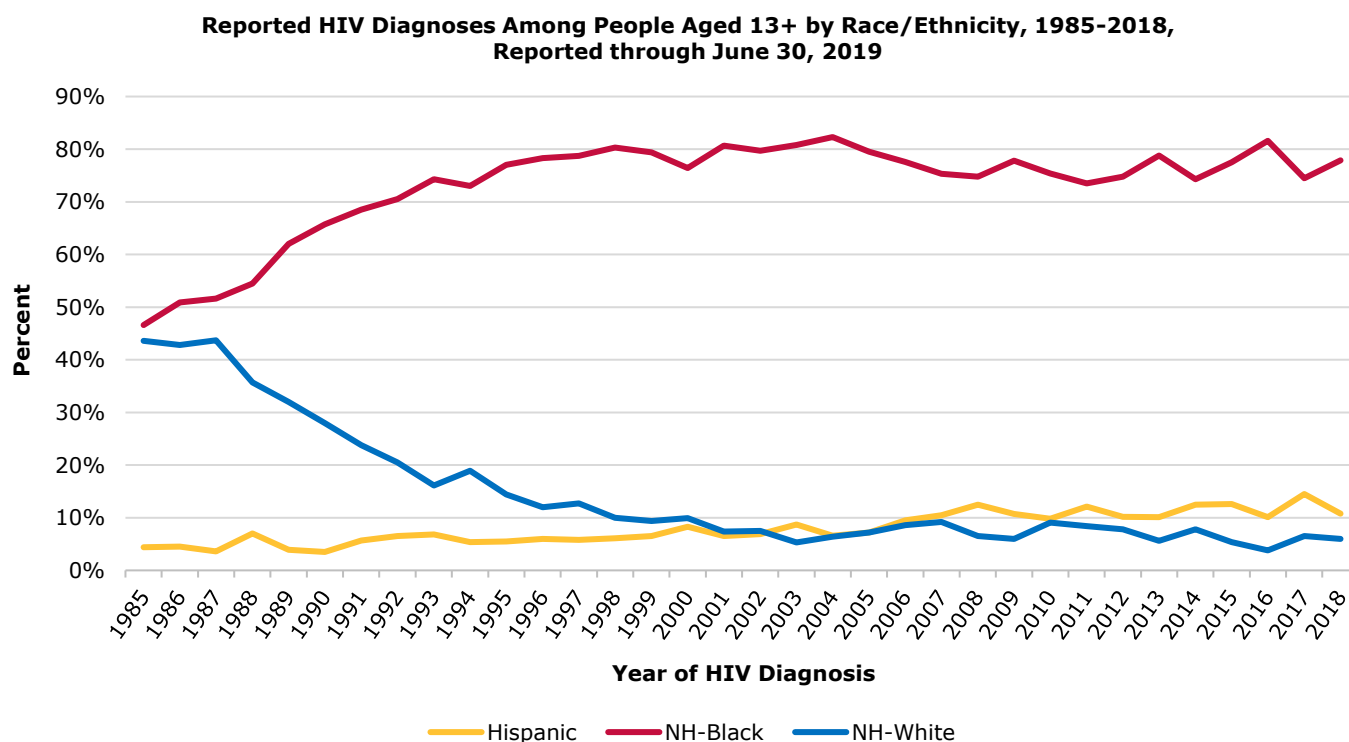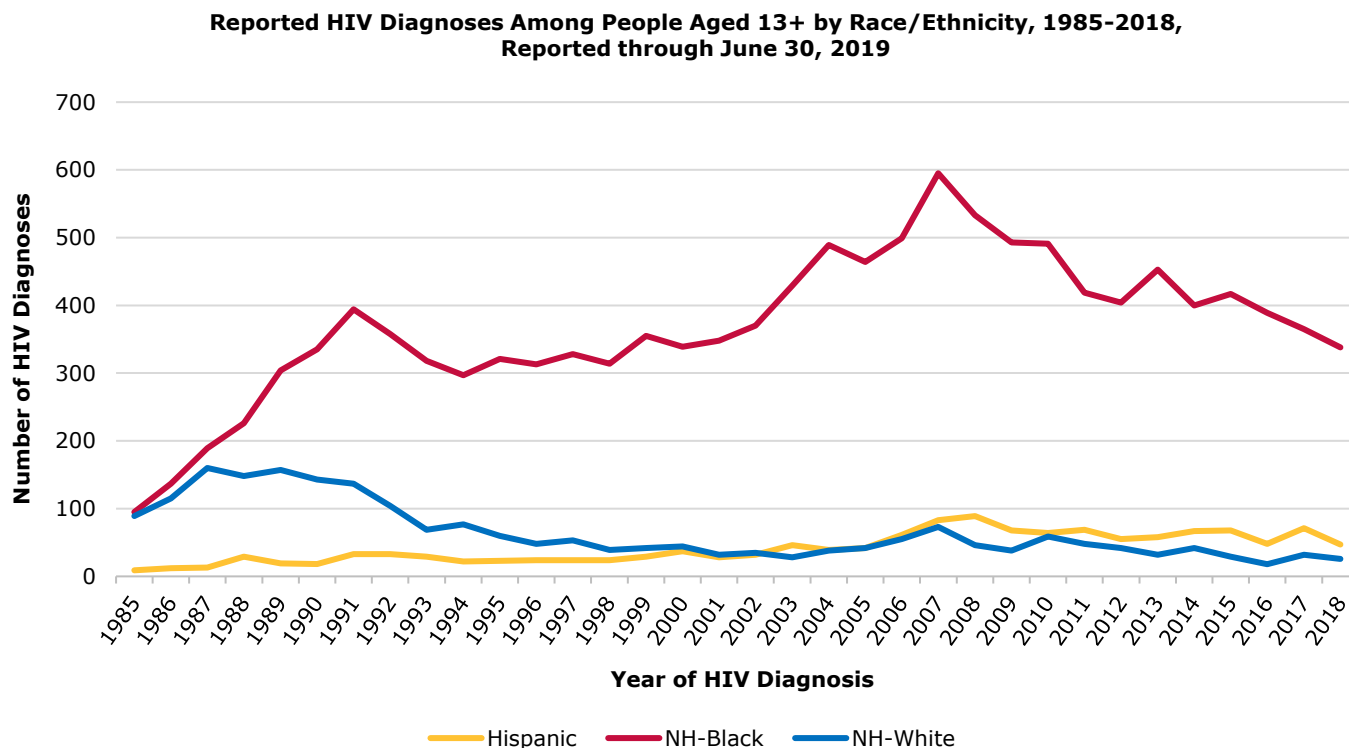
Non-Hispanic Other race not shown

Year of HIV Diagnosis	No.	Reported HIV Diagnoses Among People Aged 13+							
		Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	111	4	3.6%	64	57.7%	37	33.3%	6	5.4%
1985	204	9	4.4%	95	46.6%	89	43.6%	11	5.4%
1986	269	12	4.5%	137	50.9%	115	42.8%	5	1.9%
1987	366	13	3.6%	189	51.6%	160	43.7%	4	1.1%
1988	415	29	7.0%	226	54.5%	148	35.7%	12	2.9%
1989	490	19	3.9%	304	62.0%	157	32.0%	10	2.0%
1990	510	18	3.5%	335	65.7%	143	28.0%	14	2.7%
1991	575	33	5.7%	394	68.5%	137	23.8%	11	1.9%
1992	508	33	6.5%	358	70.5%	104	20.5%	13	2.6%
1993	428	29	6.8%	318	74.3%	69	16.1%	12	2.8%
1994	407	22	5.4%	297	73.0%	77	18.9%	11	2.7%
1995	417	23	5.5%	321	77.0%	60	14.4%	13	3.1%
1996	400	24	6.0%	313	78.3%	48	12.0%	15	3.8%
1997	417	24	5.8%	328	78.7%	53	12.7%	12	2.9%
1998	391	24	6.1%	314	80.3%	39	10.0%	14	3.6%
1999	447	29	6.5%	355	79.4%	42	9.4%	21	4.7%
2000	444	37	8.3%	339	76.4%	44	9.9%	24	5.4%
2001	431	28	6.5%	348	80.7%	32	7.4%	23	5.3%
2002	464	32	6.9%	370	79.7%	35	7.5%	27	5.8%
2003	531	46	8.7%	429	80.8%	28	5.3%	28	5.3%
2004	594	39	6.6%	489	82.3%	38	6.4%	28	4.7%
2005	584	42	7.2%	464	79.5%	42	7.2%	36	6.2%
2006	643	61	9.5%	499	77.6%	55	8.6%	28	4.4%
2007	790	83	10.5%	595	75.3%	73	9.2%	39	4.9%
2008	713	89	12.5%	533	74.8%	46	6.5%	45	6.3%
2009	634	68	10.7%	493	77.8%	38	6.0%	35	5.5%
2010	651	64	9.8%	491	75.4%	59	9.1%	37	5.7%
2011	570	69	12.1%	419	73.5%	48	8.4%	34	6.0%
2012	540	55	10.2%	404	74.8%	42	7.8%	39	7.2%
2013	575	58	10.1%	453	78.8%	32	5.6%	32	5.6%
2014	538	67	12.5%	400	74.3%	42	7.8%	29	5.4%
2015	538	68	12.6%	417	77.5%	29	5.4%	24	4.5%
2016	477	48	10.1%	389	81.6%	18	3.8%	22	4.6%
2017	490	71	14.5%	365	74.5%	32	6.5%	22	4.5%
2018	434	47	10.8%	338	77.9%	26	6.0%	23	5.3%
Total	16,996	1,417	8.3%	12,583	74.0%	2,237	13.2%	759	4.5%

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

Reported HIV Diagnoses Among People Aged 13+ by Age at Diagnosis, 1985-2018, Reported through June 30, 2019

Reported HIV Diagnoses Among People Aged 13+ by Age at Diagnosis, 1985-2018, Reported through June 30, 2019

Year of HIV Diagnosis	No.	13-19		20-29		30-39		40-49		50-59		60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	111	11	9.9%	40	36.0%	34	30.6%	19	17.1%	4	3.6%	3	2.7%
1985	204	9	4.4%	69	33.8%	81	39.7%	25	12.3%	8	3.9%	12	5.9%
1986	269	7	2.6%	107	39.8%	96	35.7%	41	15.2%	12	4.5%	6	2.2%
1987	366	6	1.6%	135	36.9%	146	39.9%	44	12.0%	24	6.6%	11	3.0%
1988	415	4	1.0%	136	32.8%	177	42.7%	66	15.9%	22	5.3%	10	2.4%
1989	490	8	1.6%	159	32.4%	228	46.5%	66	13.5%	21	4.3%	8	1.6%
1990	510	8	1.6%	156	30.6%	209	41.0%	100	19.6%	24	4.7%	13	2.5%
1991	575	12	2.1%	186	32.3%	234	40.7%	105	18.3%	27	4.7%	11	1.9%
1992	508	15	3.0%	150	29.5%	210	41.3%	93	18.3%	31	6.1%	9	1.8%
1993	428	12	2.8%	103	24.1%	199	46.5%	81	18.9%	27	6.3%	6	1.4%
1994	407	5	1.2%	104	25.6%	165	40.5%	99	24.3%	28	6.9%	6	1.5%
1995	417	12	2.9%	91	21.8%	174	41.7%	108	25.9%	22	5.3%	10	2.4%
1996	400	14	3.5%	90	22.5%	185	46.3%	77	19.3%	22	5.5%	12	3.0%
1997	417	7	1.7%	94	22.5%	160	38.4%	102	24.5%	37	8.9%	17	4.1%
1998	391	15	3.8%	86	22.0%	165	42.2%	84	21.5%	33	8.4%	8	2.0%
1999	447	8	1.8%	86	19.2%	196	43.8%	106	23.7%	37	8.3%	14	3.1%
2000	444	13	2.9%	91	20.5%	182	41.0%	87	19.6%	54	12.2%	17	3.8%
2001	431	15	3.5%	87	20.2%	153	35.5%	114	26.5%	41	9.5%	21	4.9%
2002	464	8	1.7%	94	20.3%	177	38.1%	131	28.2%	40	8.6%	14	3.0%
2003	531	15	2.8%	108	20.3%	195	36.7%	130	24.5%	61	11.5%	22	4.1%
2004	594	13	2.2%	141	23.7%	189	31.8%	163	27.4%	65	10.9%	23	3.9%
2005	584	15	2.6%	138	23.6%	191	32.7%	156	26.7%	60	10.3%	24	4.1%
2006	643	22	3.4%	166	25.8%	184	28.6%	171	26.6%	73	11.4%	27	4.2%
2007	790	42	5.3%	194	24.6%	213	27.0%	195	24.7%	112	14.2%	34	4.3%
2008	713	31	4.3%	203	28.5%	183	25.7%	178	25.0%	77	10.8%	41	5.8%
2009	634	43	6.8%	155	24.4%	175	27.6%	156	24.6%	84	13.2%	21	3.3%
2010	651	23	3.5%	191	29.3%	174	26.7%	149	22.9%	81	12.4%	33	5.1%
2011	570	22	3.9%	175	30.7%	130	22.8%	143	25.1%	76	13.3%	24	4.2%
2012	540	30	5.6%	162	30.0%	131	24.3%	121	22.4%	66	12.2%	30	5.6%
2013	575	27	4.7%	184	32.0%	139	24.2%	135	23.5%	61	10.6%	29	5.0%
2014	538	21	3.9%	182	33.8%	140	26.0%	114	21.2%	58	10.8%	23	4.3%
2015	538	23	4.3%	195	36.2%	133	24.7%	104	19.3%	63	11.7%	20	3.7%
2016	477	19	4.0%	148	31.0%	133	27.9%	94	19.7%	56	11.7%	27	5.7%
2017	490	24	4.9%	173	35.3%	138	28.2%	79	16.1%	46	9.4%	30	6.1%
2018	434	25	5.8%	140	32.3%	117	27.0%	75	17.3%	57	13.1%	20	4.6%
Total	16,996	584	3.4%	4,719	27.8%	5,736	33.7%	3,711	21.8%	1,610	9.5%	636	3.7%

Reported HIV Diagnoses Among People Aged 13+
Age at HIV Diagnosis

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

Reported HIV Diagnoses Among People 13+ by Estimated Exposure Category, 1985-2018, Reported through June 30, 2019

Reported HIV Diagnoses Among People Aged 13+ by Estimated Exposure Category, 1985-2018, Reported through June 30, 2019
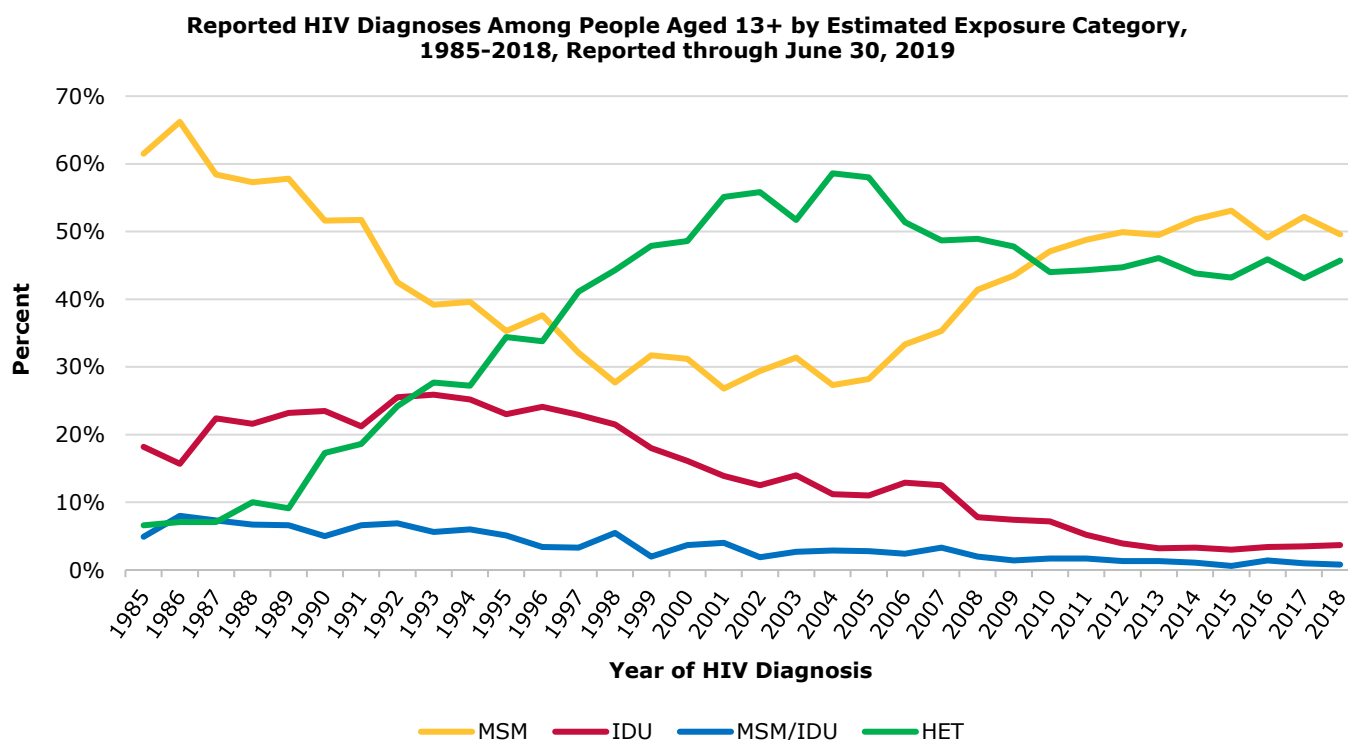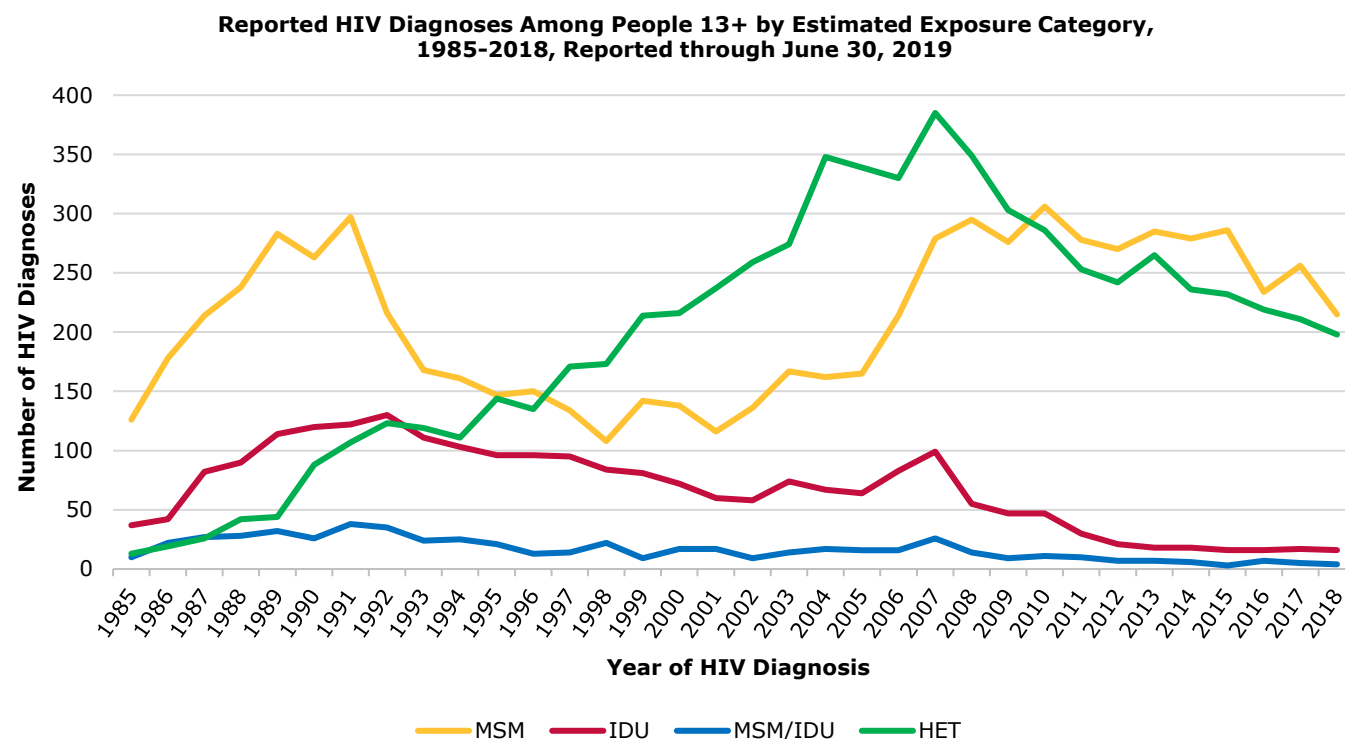
Other exposure category not shown
§ Multiple imputation was used to estimate and adjust for missing exposure category.

Year of HIV Diagnosis	No.	% with No Reported Exposure[¥]	Reported HIV Diagnoses Among People Aged 13+									
			Estimated Exposure Category[§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	111	9.9%	74	66.9%	15	13.6%	10	8.6%	8	7.2%	4	3.6%
1985	204	6.9%	126	61.5%	37	18.2%	10	4.9%	13	6.6%	18	8.8%
1986	269	3.7%	178	66.2%	42	15.7%	22	8.0%	19	7.1%	8	3.0%
1987	366	3.6%	214	58.4%	82	22.4%	27	7.3%	26	7.1%	17	4.6%
1988	415	6.3%	238	57.3%	90	21.6%	28	6.7%	42	10.0%	18	4.3%
1989	490	6.7%	283	57.8%	114	23.2%	32	6.6%	44	9.1%	16	3.3%
1990	510	5.5%	263	51.6%	120	23.5%	26	5.0%	88	17.3%	13	2.5%
1991	575	7.5%	297	51.7%	122	21.2%	38	6.6%	107	18.6%	11	1.9%
1992	508	11.2%	216	42.5%	130	25.5%	35	6.9%	123	24.2%	5	1.0%
1993	428	10.0%	168	39.2%	111	25.9%	24	5.6%	119	27.7%	7	1.6%
1994	407	9.8%	161	39.6%	103	25.2%	25	6.0%	111	27.2%	8	2.0%
1995	417	12.7%	147	35.3%	96	23.0%	21	5.1%	144	34.4%	9	2.2%
1996	400	15.8%	150	37.6%	96	24.1%	13	3.4%	135	33.8%	5	1.3%
1997	417	16.3%	134	32.1%	95	22.9%	14	3.3%	171	41.1%	3	0.7%
1998	391	18.4%	108	27.7%	84	21.5%	22	5.5%	173	44.3%	4	1.0%
1999	447	15.4%	142	31.7%	81	18.0%	9	2.0%	214	47.9%	2	0.4%
2000	444	18.2%	138	31.2%	72	16.1%	17	3.7%	216	48.6%	2	0.5%
2001	431	16.9%	116	26.8%	60	13.9%	17	4.0%	237	55.1%	1	0.2%
2002	464	14.0%	136	29.4%	58	12.5%	9	1.9%	259	55.8%	2	0.4%
2003	531	13.6%	167	31.4%	74	14.0%	14	2.7%	274	51.7%	1	0.2%
2004	594	20.0%	162	27.3%	67	11.2%	17	2.9%	348	58.6%	0	0.0%
2005	584	21.2%	165	28.2%	64	11.0%	16	2.8%	339	58.0%	0	0.0%
2006	643	28.9%	214	33.3%	83	12.9%	16	2.4%	330	51.4%	0	0.0%
2007	790	30.3%	279	35.3%	99	12.5%	26	3.3%	385	48.7%	2	0.3%
2008	713	37.3%	295	41.4%	55	7.8%	14	2.0%	349	48.9%	0	0.0%
2009	634	37.1%	276	43.5%	47	7.4%	9	1.4%	303	47.8%	0	0.0%
2010	651	37.9%	306	47.1%	47	7.2%	11	1.7%	286	44.0%	0	0.0%
2011	570	38.8%	278	48.8%	30	5.2%	10	1.7%	253	44.3%	0	0.0%
2012	540	26.3%	270	49.9%	21	3.9%	7	1.3%	242	44.7%	1	0.2%
2013	575	22.1%	285	49.5%	18	3.2%	7	1.3%	265	46.1%	0	0.0%
2014	538	21.2%	279	51.8%	18	3.3%	6	1.1%	236	43.8%	0	0.0%
2015	538	14.9%	286	53.1%	16	3.0%	3	0.6%	232	43.2%	1	0.2%
2016	477	18.9%	234	49.1%	16	3.4%	7	1.4%	219	45.9%	1	0.2%
2017	490	20.4%	256	52.2%	17	3.5%	5	1.0%	211	43.1%	1	0.2%
2018	434	27.2%	215	49.6%	16	3.7%	4	0.8%	198	45.7%	1	0.2%
Total	16,996	19.7%	7,256	42.7%	2,296	13.5%	571	3.4%	6,719	39.5%	161	0.9%

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

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

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

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 Suburban Region Residents Aged 13+, Reported through June 30, 2019

The prevalence-based Suburban 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, 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 Suburban Region. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Suburban 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.

Prevalence-Based Estimated HIV Continuum of Care Among People Aged 13+, 2018
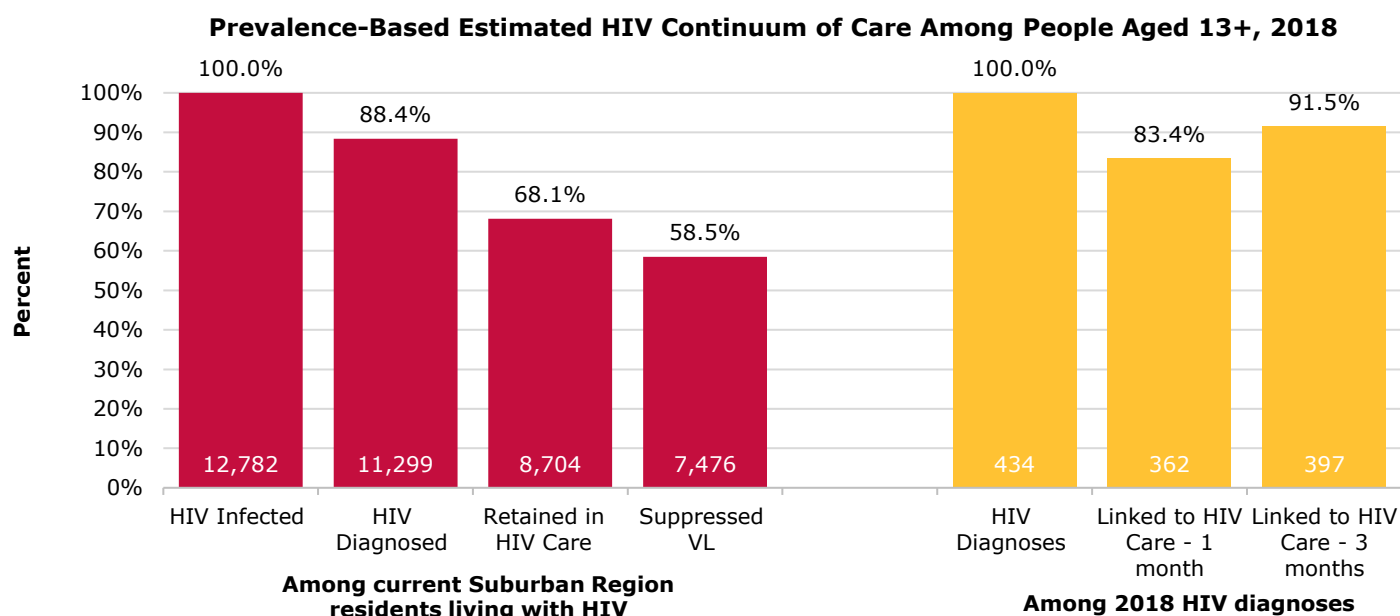
Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected	12,782	100.0%	New HIV Diagnoses	434	100.0%
HIV Diagnosed	11,299	88.4%	Linked to HIV Care – 1 Month	362	83.4%
Retained in HIV Care	8,704	68.1%	Linked to HIV Care – 3 Months	397	91.5%
Suppressed VL	7,476	58.5%			

[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 Suburban Region Residents Aged 13+, Reported through June 30, 2019

The diagnosis-based Suburban Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Suburban Region residents to describe the number and percentage of persons living with diagnosed HIV in the Suburban 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.

Diagnosis-Based Estimated HIV Continuum of Care Among People Aged 13+, 2018
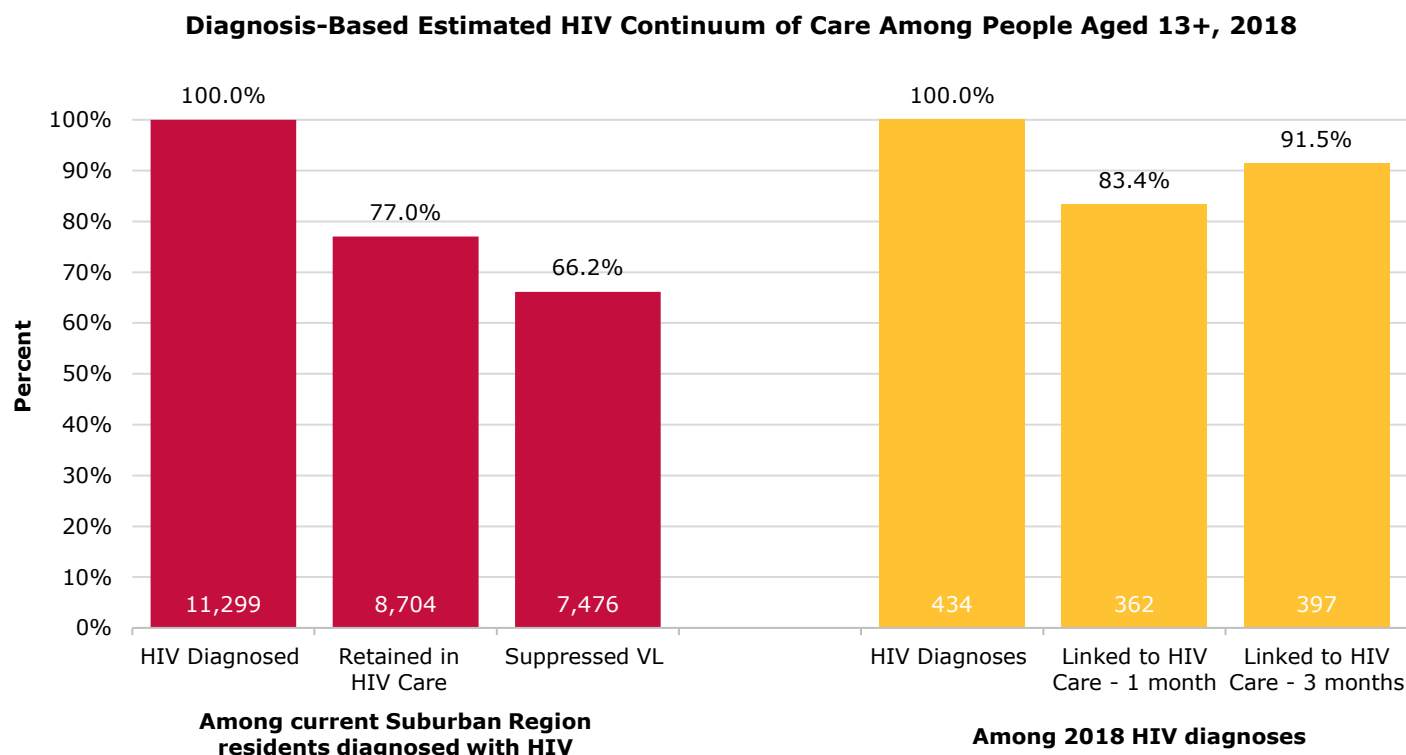
Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Diagnosed	11,299	100.0%	New HIV Diagnoses	434	100.0%
Retained in HIV Care	8,704	77.0%	Linked to HIV Care – 1 Month	362	83.4%
Suppressed VL	7,476	66.2%	Linked to HIV Care – 3 Months	397	91.5%

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
Montgomery	877,597	123	28.3%	14.0	86.2%	91.1%	24.4%	95.1%	358
Prince George's	760,274	311	71.7%	40.9	82.3%	91.6%	21.5%	94.5%	384
Total	1,637,871	434	100.0%	26.5	83.4%	91.5%	22.4%	94.7%	376

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
Montgomery	877,597	63	30.7%	7.2	4.1	49.2%
Prince George's	760,274	142	69.3%	18.7	4.2	47.2%
Total	1,637,871	205	100.0%	12.5	4.2	47.8%

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 | | | | | | | | % Change |
| | | Residence at Diagnosis | | | | Current Residence | | | | |
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Montgomery	877,597	4,001	34.5%	455.9	219	3,489	30.9%	397.6	252	-12.8%
Prince George's	760,274	7,594	65.5%	998.8	100	7,810	69.1%	1,027.3	97	2.8%
Total	1,637,871	11,595	100.0%	707.9	141	11,299	100.0%	689.9	145	-2.6%

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 | No. | Total People Aged 13+ Living with Diagnosed HIV | | | | | | |
| | | Recent CD4 Test Result | | | | | | |
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Montgomery	3,489	2,518	72.2%	608	6.8%	11.9%	16.4%	65.0%
Prince George's	7,810	5,995	76.8%	608	8.2%	11.3%	17.5%	63.1%
Total	11,299	8,513	75.3%	608	7.7%	11.4%	17.1%	63.7%

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
Montgomery	3,489	2,510	71.9%	90.3%	8,410
Prince George's	7,810	5,995	76.8%	86.9%	12,600
Total	11,299	8,505	75.3%	87.9%	11,600

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)	125,263	1	0.2%	0.8	***	***	***	***	***
5-12 (Pediatric)	198,741	0	0.0%	0.0	--	--	--	--	--
13-19	171,900	25	5.7%	14.5	68.0%	96.0%	***	92.0%	447
20-29	252,831	140	32.2%	55.4	82.9%	92.1%	12.9%	95.7%	428
30-39	273,676	117	26.9%	42.8	88.9%	92.3%	26.5%	92.3%	356
40-49	262,551	75	17.2%	28.6	86.7%	92.0%	32.0%	98.7%	292
50-59	273,406	57	13.1%	20.8	73.7%	82.5%	26.3%	93.0%	328
60+	403,507	20	4.6%	5.0	***	***	***	***	***
Total	1,961,875	435	100.0%	22.2	83.4%	91.5%	22.5%	94.7%	374

*** 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)	125,263	2	0.0%	1.6	62,632
5-12 (Pediatric)	198,741	22	0.2%	11.1	9,034
13-19	171,900	87	0.8%	50.6	1,976
20-29	252,831	1,182	10.4%	467.5	214
30-39	273,676	2,419	21.4%	883.9	113
40-49	262,551	2,812	24.8%	1,071.0	93
50-59	273,406	3,011	26.6%	1,101.3	91
60+	403,507	1,788	15.8%	443.1	226
Total	1,961,875	11,323	100.0%	577.2	173

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	87	74	85.1%	648	4.1%	8.1%	14.9%	73.0%
20-29	1,182	916	77.5%	632	6.7%	10.8%	15.4%	67.1%
30-39	2,419	1,787	73.9%	605	8.4%	11.1%	18.0%	62.4%
40-49	2,812	2,084	74.1%	606	7.6%	11.8%	16.5%	64.1%
50-59	3,011	2,296	76.3%	609	8.4%	11.0%	17.5%	63.0%
60+	1,788	1,356	75.8%	594	6.8%	12.6%	17.6%	63.0%
Total	11,299	8,513	75.3%	608	7.7%	11.4%	17.1%	63.7%

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	87	77	88.5%	80.5%	13,300
20-29	1,182	917	77.6%	75.9%	16,220
30-39	2,419	1,791	74.0%	84.9%	15,104
40-49	2,812	2,073	73.7%	89.1%	9,740
50-59	3,011	2,299	76.4%	91.0%	11,559
60+	1,788	1,348	75.4%	93.4%	5,576
Total	11,299	8,505	75.3%	87.9%	11,600

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	781,320	293	67.5%	37.5	81.6%	90.4%	***	***	***
Female	856,551	141	32.5%	16.5	87.2%	93.6%	***	***	***
Gender									
Male	781,320	288	66.4%	36.9	81.3%	90.3%	22.2%	94.4%	369
Female	856,551	141	32.5%	16.5	87.2%	93.6%	***	***	***
Transgender Female	--	5	1.2%	--	100.0%	100.0%	***	***	***
Transgender Male	--	0	0.0%	--	--	--	--	--	--
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	286,481	47	10.8%	16.4	85.1%	93.6%	27.7%	97.9%	302
Non-Hispanic	1,351,390	387	89.2%	28.6	83.2%	91.2%	21.7%	94.3%	385
American Indian/Alaska Native, only	3,429	1	0.2%	29.2	***	***	***	***	***
Asian, only	173,830	12	2.8%	6.9	***	***	***	***	***
Black, only	640,644	338	77.9%	52.8	82.5%	90.8%	22.2%	94.4%	383
Native Hawaiian/Other Pacific Islander, only	762	0	0.0%	0.0	--	--	--	--	--
White, only	501,190	26	6.0%	5.2	80.8%	88.5%	***	96.2%	434
Multiracial/Other	31,536	10	2.3%	31.7	100.0%	100.0%	***	90.0%	358
Total	1,637,871	434	100.0%	26.5	83.4%	91.5%	22.4%	94.7%	376
Country of Birth									
United States	1,106,662	316	72.8%	28.6	82.9%	90.8%	19.0%	94.9%	389
Foreign-Born	513,575	95	21.9%	18.5	85.3%	94.7%	34.7%	94.7%	297
Africa	--	72	16.6%	--	90.3%	95.8%	33.3%	94.4%	329
Asia	--	5	1.2%	--	100.0%	100.0%	***	100.0%	107
Caribbean	--	5	1.2%	--	***	***	***	***	***
Central America	--	10	2.3%	--	60.0%	80.0%	50.0%	100.0%	134
Other	--	3	0.7%	--	***	***	***	***	***
Unknown	--	23	5.3%	--	82.6%	87.0%	***	91.3%	314
Total	1,620,237	434	100.0%	26.8	83.4%	91.5%	22.4%	94.7%	376

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	781,320	7,441	65.9%	952.4	105
Female	856,551	3,858	34.1%	450.4	222
Gender					
Male	781,320	7,375	65.3%	943.9	106
Female	856,551	3,855	34.1%	450.1	222
Transgender Female	--	66	0.6%	--	--
Transgender Male	--	3	0.0%	--	--
Another Gender Identity	--	0	0.0%	--	--
Race/Ethnicity					
Hispanic	286,481	1,153	10.2%	402.5	248
Non-Hispanic	1,351,390	10,146	89.8%	750.8	133
American Indian/Alaska Native, only	3,429	***	***	***	***
Asian, only	173,830	117	1.0%	67.3	1,486
Black, only	640,644	8,622	76.3%	1,345.8	74
Native Hawaiian/Other Pacific Islander, only	762	***	***	***	***
White, only	501,190	860	7.6%	171.6	583
Multiracial/Other	31,536	537	4.8%	1,702.8	59
Total	1,637,871	11,299	100.0%	689.9	145
Country of Birth					
United States	1,106,662	8,585	76.0%	775.8	129
Foreign-Born	513,575	2,344	20.7%	456.4	219
Africa	--	1,582	14.0%	--	--
Asia	--	85	0.8%	--	--
Caribbean	--	150	1.3%	--	--
Central America	--	357	3.2%	--	--
Other	--	170	1.5%	--	--
Unknown	--	370	3.3%	--	--
Total	1,620,237	11,299	100.0%	697.4	143

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.

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	7,441	5,591	75.1%	592	7.9%	12.0%	18.0%	62.2%
Female	3,858	2,922	75.7%	635	7.5%	10.4%	15.5%	66.6%
Gender								
Male	7,375	5,539	75.1%	592	7.9%	12.0%	18.0%	62.2%
Female	3,855	2,919	75.7%	634	7.5%	10.4%	15.6%	66.5%
Transgender Female	66	***	***	***	***	***	***	***
Transgender Male	3	***	***	***	***	***	***	***
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	1,153	853	74.0%	580	7.3%	10.4%	19.7%	62.6%
Non-Hispanic	10,146	7,660	75.5%	611	7.8%	11.6%	16.9%	63.8%
American Indian/Alaska Native, only	***	***	***	***	***	***	***	***
Asian, only	117	84	71.8%	577	6.0%	13.1%	22.6%	58.3%
Black, only	8,622	6,529	75.7%	606	8.1%	11.7%	17.3%	62.9%
Native Hawaiian/Other Pacific Islander, only	***	***	***	***	***	***	***	***
White, only	860	624	72.6%	675	5.3%	9.3%	11.2%	74.2%
Multiracial/Other	537	416	77.5%	600	7.9%	12.3%	17.8%	62.0%
Country of Birth								
United States	8,585	6,537	76.1%	615	8.0%	10.9%	17.0%	64.2%
Foreign-Born	2,344	1,721	73.4%	583	7.1%	13.1%	18.0%	61.8%
Africa	1,582	1,162	73.5%	570	7.1%	14.8%	19.0%	59.0%
Asia	85	63	74.1%	585	6.3%	12.7%	17.5%	63.5%
Caribbean	150	119	79.3%	656	9.2%	8.4%	11.8%	70.6%
Central America	357	258	72.3%	585	7.0%	10.9%	19.8%	62.4%
Other	170	119	70.0%	691	5.0%	6.7%	10.9%	77.3%
Unknown	370	255	68.9%	614	6.7%	14.5%	15.7%	63.1%
Total	11,299	8,513	75.3%	608	7.7%	11.4%	17.1%	63.7%

*** 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	No.	Total People Aged 13+ Living with Diagnosed HIV			
		Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Sex at Birth					
Male	7,441	5,576	74.9%	87.9%	13,937
Female	3,858	2,929	75.9%	87.9%	9,119
Gender					
Male	7,375	5,523	74.9%	88.0%	14,048
Female	3,855	2,926	75.9%	87.9%	9,119
Transgender Female	66	***	***	***	***
Transgender Male	3	***	***	***	***
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	1,153	853	74.0%	90.3%	20,300
Non-Hispanic	10,146	7,652	75.4%	87.6%	11,000
American Indian/Alaska Native, only	***	***	***	***	***
Asian, only	117	87	74.4%	92.0%	125,000
Black, only	8,622	6,516	75.6%	86.9%	10,150
Native Hawaiian/Other Pacific Islander, only	***	***	***	***	***
White, only	860	617	71.7%	93.8%	12,350
Multiracial/Other	537	425	79.1%	89.2%	24,158
Country of Birth					
United States	8,585	6,527	76.0%	87.3%	14,124
Foreign-Born	2,344	1,715	73.2%	90.5%	6,150
Africa	1,582	1,160	73.3%	90.4%	3,330
Asia	85	64	75.3%	89.1%	26,090
Caribbean	150	121	80.7%	88.4%	13,600
Central America	357	252	70.6%	91.3%	26,644
Other	170	118	69.4%	92.4%	5,940
Unknown	370	263	71.1%	86.3%	8,362
Total	11,299	8,505	75.3%	87.9%	11,600

*** 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

Total People Living with Diagnosed HIV by Age and Sex

Non-Hispanic Whites Living with Diagnosed HIV by Age and Sex

Hispanics Living with Diagnosed HIV by Age and Sex

Non-Hispanic Blacks Living with Diagnosed HIV by Age and Sex

Male   Female

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

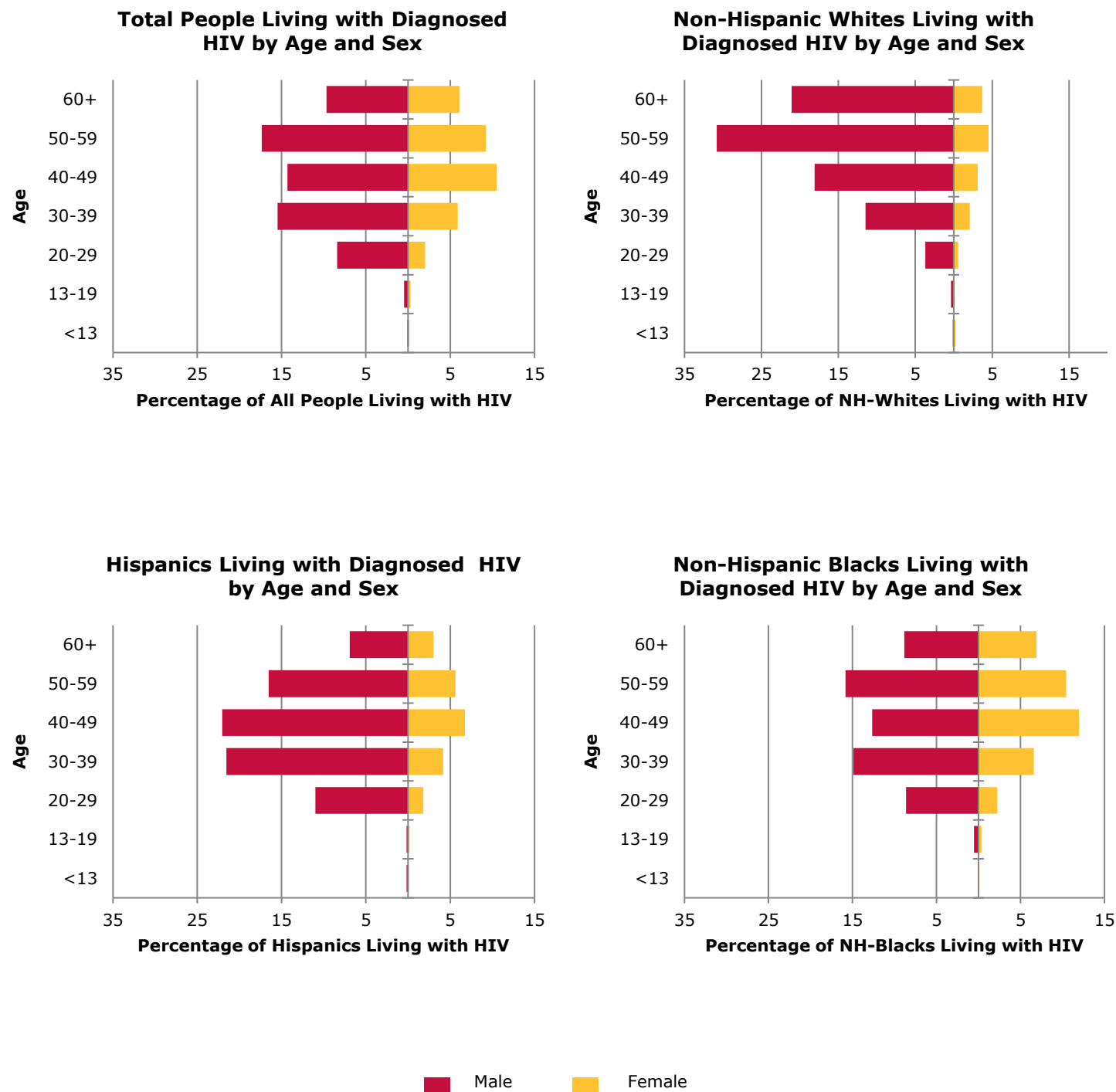| Age on December 31, 2018		Total Males Living with Diagnosed HIV				
		Race/Ethnicity				Total Males by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	48,980	58,827	35,475	22,063	165,345
	Number	2	6	1	0	9
	Rate	4.1	10.2	2.8	0.0	5.4
	Ratio (1 in X)	24,490	9,804	35,475	--	18,372
13-19	Population	21,426	32,254	22,594	11,495	87,769
	Number	2	45	3	3	53
	Rate	9.3	139.5	13.3	26.1	60.4
	Ratio (1 in X)	10,713	717	7,531	3,832	1,656
20-29	Population	28,408	51,558	31,677	16,061	127,704
	Number	127	744	32	51	954
	Rate	447.1	1,443.0	101.0	317.5	747.0
	Ratio (1 in X)	224	69	990	315	134
30-39	Population	34,737	48,491	33,994	17,407	134,629
	Number	249	1,287	99	117	1,752
	Rate	716.8	2,654.1	291.2	672.1	1,301.4
	Ratio (1 in X)	140	38	343	149	77
40-49	Population	30,661	46,722	32,941	16,273	126,597
	Number	255	1,093	156	116	1,620
	Rate	831.7	2,339.4	473.6	712.8	1,279.7
	Ratio (1 in X)	120	43	211	140	78
50-59	Population	19,584	51,421	42,863	14,732	128,600
	Number	191	1,368	266	140	1,965
	Rate	975.3	2,660.4	620.6	950.3	1,528.0
	Ratio (1 in X)	103	38	161	105	65
60+	Population	14,627	61,117	79,026	21,251	176,021
	Number	80	763	182	72	1,097
	Rate	546.9	1,248.4	230.3	338.8	623.2
	Ratio (1 in X)	183	80	434	295	160
Total Males by Race/Ethnicity	Population	198,423	350,390	278,570	119,282	946,665
	Number	906	5,306	739	499	7,450
	Rate	456.6	1,514.3	265.3	418.3	787.0
	Ratio (1 in X)	219	66	377	239	127

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
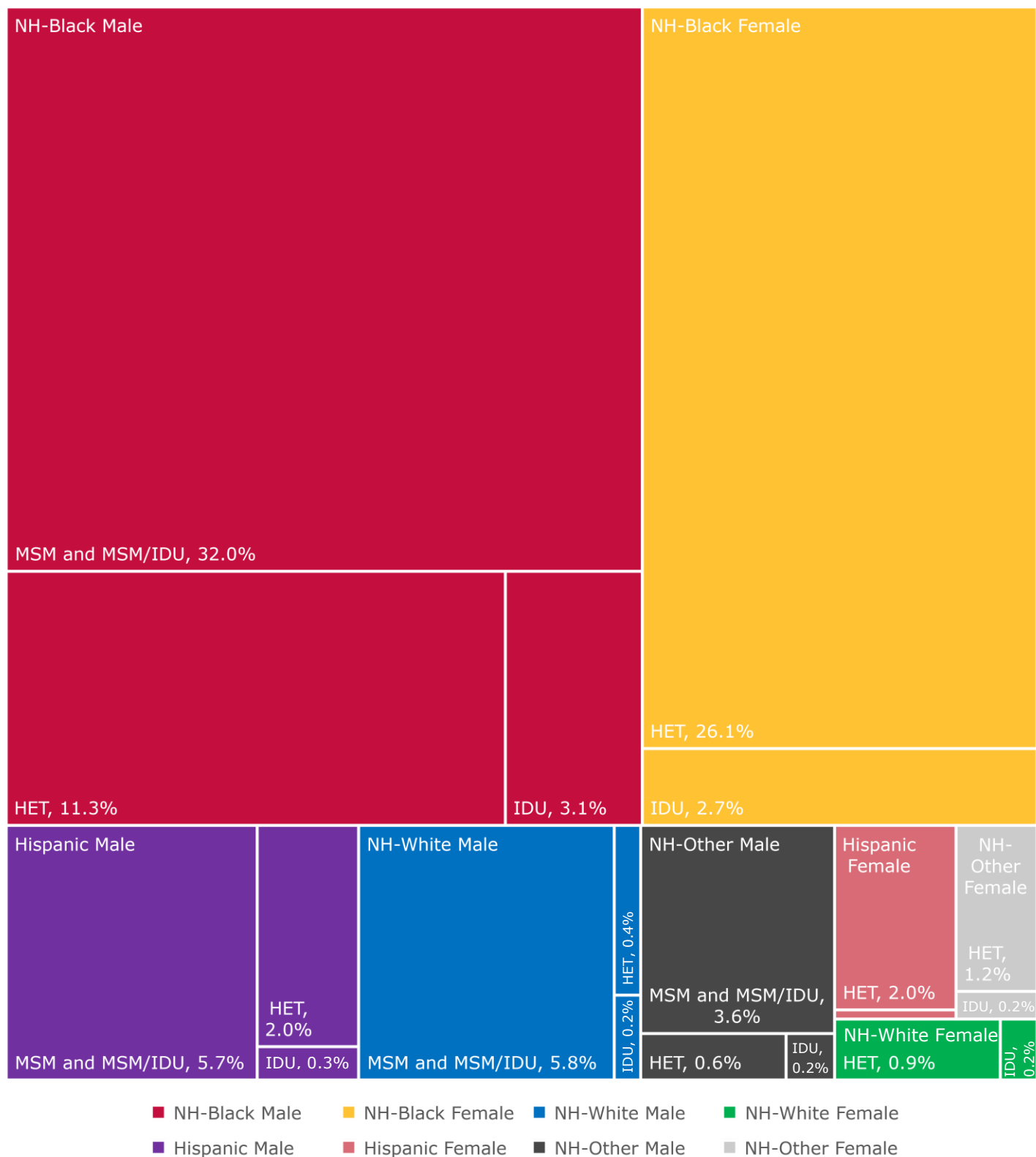
Age on December 31, 2018		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	Total Females by Age Group
		Total Females Living with Diagnosed HIV				
		Race/Ethnicity				
<13 (Pediatric)	Population	46,866	57,416	33,521	20,857	158,659
	Number	1	10	2	2	15
	Rate	2.1	17.4	6.0	9.6	9.5
	Ratio (1 in X)	46,866	5,742	16,761	10,428	10,577
13-19	Population	19,749	31,887	21,409	11,085	84,131
	Number	2	31	1	0	34
	Rate	10.1	97.2	4.7	0.0	40.4
	Ratio (1 in X)	9,875	1,029	21,409	--	2,474
20-29	Population	25,422	53,658	29,702	16,345	125,127
	Number	21	193	5	9	228
	Rate	82.6	359.7	16.8	55.1	182.2
	Ratio (1 in X)	1,211	278	5,940	1,816	549
30-39	Population	29,216	55,477	34,378	19,976	139,047
	Number	48	568	18	33	667
	Rate	164.3	1,023.8	52.4	165.2	479.7
	Ratio (1 in X)	609	98	1,910	605	208
40-49	Population	25,710	56,570	33,817	19,857	135,954
	Number	78	1,033	27	54	1,192
	Rate	303.4	1,826.1	79.8	271.9	876.8
	Ratio (1 in X)	330	55	1,252	368	114
50-59	Population	18,519	63,521	44,781	17,985	144,806
	Number	65	901	39	41	1,046
	Rate	351.0	1,418.4	87.1	228.0	722.3
	Ratio (1 in X)	285	71	1,148	439	138
60+	Population	18,421	87,967	94,008	27,090	227,486
	Number	35	596	32	28	691
	Rate	190.0	677.5	34.0	103.4	303.8
	Ratio (1 in X)	526	148	2,938	968	329
Total Females by Race/Ethnicity	Population	183,903	406,496	291,616	133,195	1,015,210
	Number	250	3,332	124	167	3,873
	Rate	135.9	819.7	42.5	125.4	381.5
	Ratio (1 in X)	736	122	2,352	798	262

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

NH-Black Male
MSM and MSM/IDU, 32.0%
HET, 11.3%
IDU, 3.1%

NH-Black Female
HET, 26.1%
IDU, 2.7%

Hispanic Male
MSM and MSM/IDU, 5.7%
HET, 2.0%
IDU, 0.3%

NH-White Male
MSM and MSM/IDU, 5.8%
HET, 0.4%
IDU, 0.2%

NH-Other Male
MSM and MSM/IDU, 3.6%
HET, 0.6%
IDU, 0.2%

Hispanic Female
HET, 2.0%

NH-Other Female
HET, 1.2%
IDU, 0.2%

NH-White Female
HET, 0.9%
IDU, 0.2%

Legend:
- NH-Black Male
- NH-Black Female
- NH-White Male
- NH-White Female
- Hispanic Male
- Hispanic Female
- NH-Other Male
- NH-Other Female

Note. Other exposure category and perinatal transmission not shown (1 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)	215	49.6%	81.5%	90.8%	16.4%	94.2%	383
Injection Drug Use (IDU)	16	3.7%	66.9%	71.9%	***	85.0%	425
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	4	0.8%	***	***	***	***	***
Heterosexual Contact (HET)	198	45.7%	86.6%	93.7%	29.2%	95.9%	358
Perinatal Transmission	1	0.2%	***	***	***	***	***
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	434	100.0%	83.4%	91.5%	22.4%	94.7%	376
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	215	73.4%	81.5%	90.8%	16.4%	94.2%	383
Injection Drug Use (IDU)	10	3.4%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	4	1.2%	***	***	***	***	***
Heterosexual Contact (HET)	64	21.9%	84.3%	92.8%	42.5%	96.7%	251
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	293	100.0%	81.6%	90.4%	22.2%	94.2%	369
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	6	4.3%	***	***	***	***	***
Heterosexual Contact (HET)	134	95.0%	87.7%	94.1%	22.9%	95.5%	376
Perinatal Transmission	1	0.7%	***	***	***	***	***
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	141	100.0%	87.2%	93.6%	22.7%	95.7%	386

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)	5,058	44.8%
Injection Drug Use (IDU)	788	7.0%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	257	2.3%
Heterosexual Contact (HET)	5,033	44.5%
Perinatal Transmission	120	1.1%
Other Exposure	11	0.1%
No Estimated or Reported Exposure	32	0.3%
Total	**11,299**	**100.0%**

Male Estimated or Reported Exposure Category		
Male-to-male Sexual Contact (MSM)	5,058	68.0%
Injection Drug Use (IDU)	428	5.7%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	257	3.5%
Heterosexual Contact (HET)	1,621	21.8%
Perinatal Transmission	54	0.7%
Other Exposure	4	0.1%
No Estimated or Reported Exposure	20	0.3%
Total	**7,441**	**100.0%**

Female Estimated or Reported Exposure Category		
Injection Drug Use (IDU)	360	9.3%
Heterosexual Contact (HET)	3,413	88.5%
Perinatal Transmission	66	1.7%
Other Exposure	7	0.2%
No Estimated or Reported Exposure	12	0.3%
Total	**3,858**	**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)	622	53.9%	3,434	39.8%	619	72.0%
Injection Drug Use (IDU)	42	3.6%	656	7.6%	45	5.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	24	2.1%	176	2.0%	39	4.5%
Heterosexual Contact (HET)	455	39.5%	4,220	48.9%	147	17.1%
Perinatal Transmission	9	0.8%	103	1.2%	4	0.5%
Other Exposure	1	0.1%	7	0.1%	2	0.2%
No Estimated or Reported Exposure	1	0.1%	27	0.3%	3	0.3%
Total	**1,154**	**100.0%**	**8,623**	**100.0%**	**859**	**100.0%**
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	622	68.8%	3,434	64.8%	619	83.9%
Injection Drug Use (IDU)	28	3.1%	352	6.6%	27	3.6%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	24	2.6%	176	3.3%	39	5.3%
Heterosexual Contact (HET)	225	24.9%	1,273	24.0%	49	6.7%
Perinatal Transmission	4	0.4%	46	0.9%	2	0.3%
Other Exposure	1	0.1%	1	0.0%	1	0.1%
No Estimated or Reported Exposure	0	0.0%	18	0.3%	1	0.1%
Total	**904**	**100.0%**	**5,300**	**100.0%**	**738**	**100.0%**
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	13	5.4%	304	9.1%	19	15.5%
Heterosexual Contact (HET)	230	92.2%	2,946	88.7%	98	80.4%
Perinatal Transmission	5	2.0%	57	1.7%	2	1.6%
Other Exposure	0	0.0%	6	0.2%	1	0.8%
No Estimated or Reported Exposure	1	0.4%	9	0.3%	2	1.6%
Total	**249**	**100.0%**	**3,322**	**100.0%**	**122**	**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)	5,058	3,848	76.1%	618	6.7%	10.6%	17.0%	65.6%
Injection Drug Use (IDU)	788	568	72.1%	594	9.4%	13.1%	15.8%	61.6%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	257	202	78.4%	547	9.2%	14.8%	20.5%	55.5%
Heterosexual Contact (HET)	5,033	3,763	74.8%	601	8.3%	11.8%	17.5%	62.5%
Perinatal Transmission	120	99	82.5%	630	13.1%	11.1%	13.1%	62.6%
Other Exposure	11	9	81.8%	489	0.0%	33.3%	22.2%	44.4%
No Estimated or Reported Exposure	32	24	75.0%	599	16.7%	12.5%	8.3%	62.5%
Total	11,299	8,513	75.3%	608	7.7%	11.4%	17.1%	63.7%

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

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
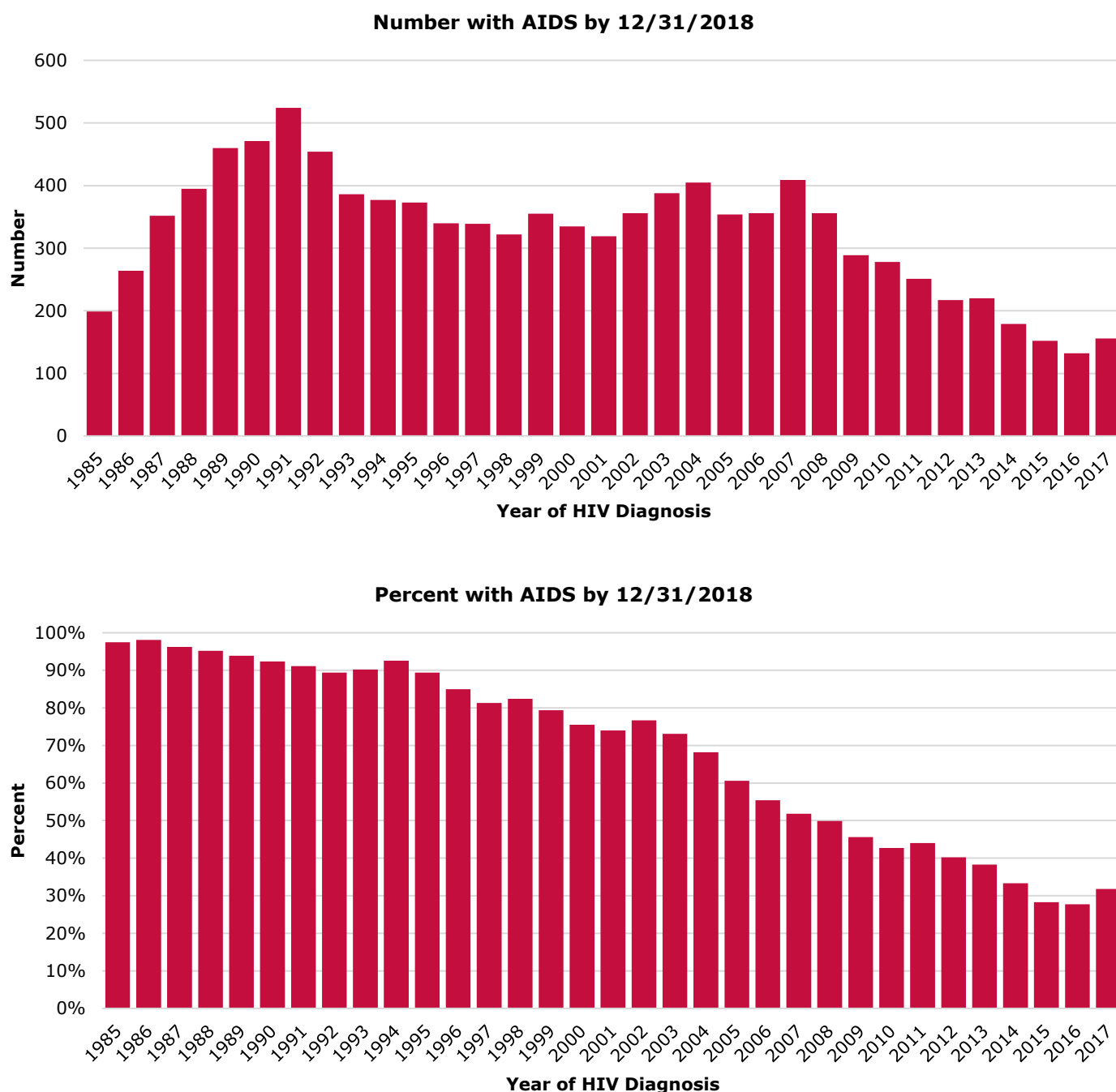
Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male-to-male Sexual Contact (MSM)	5,058	3,850	76.1%	88.1%	13,590
Injection Drug Use (IDU)	788	565	71.7%	87.8%	14,911
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	257	199	77.4%	85.6%	20,073
Heterosexual Contact (HET)	5,033	3,758	74.7%	88.4%	10,280
Perinatal Transmission	120	100	83.3%	73.0%	9,318
Other Exposure	11	9	81.8%	88.9%	370
No Estimated or Reported Exposure	32	24	75.0%	66.7%	5,880
Total	11,299	8,505	75.3%	87.9%	11,600

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

Number with AIDS by 12/31/2018

Percent with AIDS by 12/31/2018

| Year of HIV Diagnosis | No. | Reported HIV Diagnoses Among People Aged 13+ | | | | | | |
| | | 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	111	105	94.6%	7.9	41.4%	41.4%	44.1%	58.6%
1985	204	199	97.5%	5.7	42.2%	43.6%	50.0%	77.5%
1986	269	264	98.1%	4.7	44.2%	45.0%	55.4%	87.4%
1987	366	352	96.2%	3.8	48.1%	48.9%	65.0%	86.9%
1988	415	395	95.2%	3.2	48.9%	53.5%	73.0%	89.2%
1989	490	460	93.9%	3.0	49.6%	52.7%	73.5%	88.6%
1990	510	471	92.4%	3.0	48.8%	56.1%	73.9%	86.9%
1991	575	524	91.1%	2.5	52.0%	60.7%	78.8%	85.4%
1992	508	454	89.4%	2.9	48.6%	56.3%	72.8%	82.1%
1993	428	386	90.2%	2.2	59.6%	65.7%	76.6%	85.3%
1994	407	377	92.6%	2.0	66.3%	71.7%	78.6%	87.2%
1995	417	373	89.4%	2.0	65.7%	71.2%	76.0%	84.4%
1996	400	340	85.0%	1.9	63.8%	65.5%	72.8%	80.8%
1997	417	339	81.3%	1.9	60.0%	63.5%	69.5%	77.2%
1998	391	322	82.4%	2.0	58.8%	62.9%	70.1%	77.2%
1999	447	355	79.4%	1.8	60.0%	64.0%	68.7%	74.3%
2000	444	335	75.5%	1.9	55.4%	58.3%	64.2%	71.6%
2001	431	319	74.0%	2.1	52.9%	55.0%	63.3%	68.9%
2002	464	356	76.7%	1.4	60.6%	64.9%	69.4%	73.3%
2003	531	388	73.1%	1.7	55.9%	58.2%	63.5%	69.5%
2004	594	405	68.2%	1.7	51.7%	54.2%	58.4%	65.8%
2005	584	354	60.6%	1.2	48.5%	50.9%	55.0%	59.4%
2006	643	356	55.4%	1.6	40.6%	43.2%	48.8%	53.7%
2007	790	409	51.8%	1.7	36.3%	38.5%	44.2%	50.0%
2008	713	356	49.9%	1.4	35.9%	38.8%	45.7%	49.5%
2009	634	289	45.6%	1.6	32.2%	34.4%	39.4%	--
2010	651	278	42.7%	1.2	30.9%	33.8%	38.6%	--
2011	570	251	44.0%	1.1	33.5%	36.7%	40.2%	--
2012	540	217	40.2%	0.9	31.9%	34.6%	38.5%	--
2013	575	220	38.3%	0.7	32.7%	34.4%	37.2%	--
2014	538	179	33.3%	0.6	26.4%	28.6%	--	--
2015	538	152	28.3%	0.5	24.7%	26.2%	--	--
2016	477	132	27.7%	0.4	24.7%	26.4%	--	--
2017	490	156	31.8%	0.2	30.4%	--	--	--
Total	16,562	10,868	65.6%	2.1	44.8%	48.0%	55.4%	62.3%

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


Number Deceased by 12/31/2018

Percent Deceased by 12/31/2018
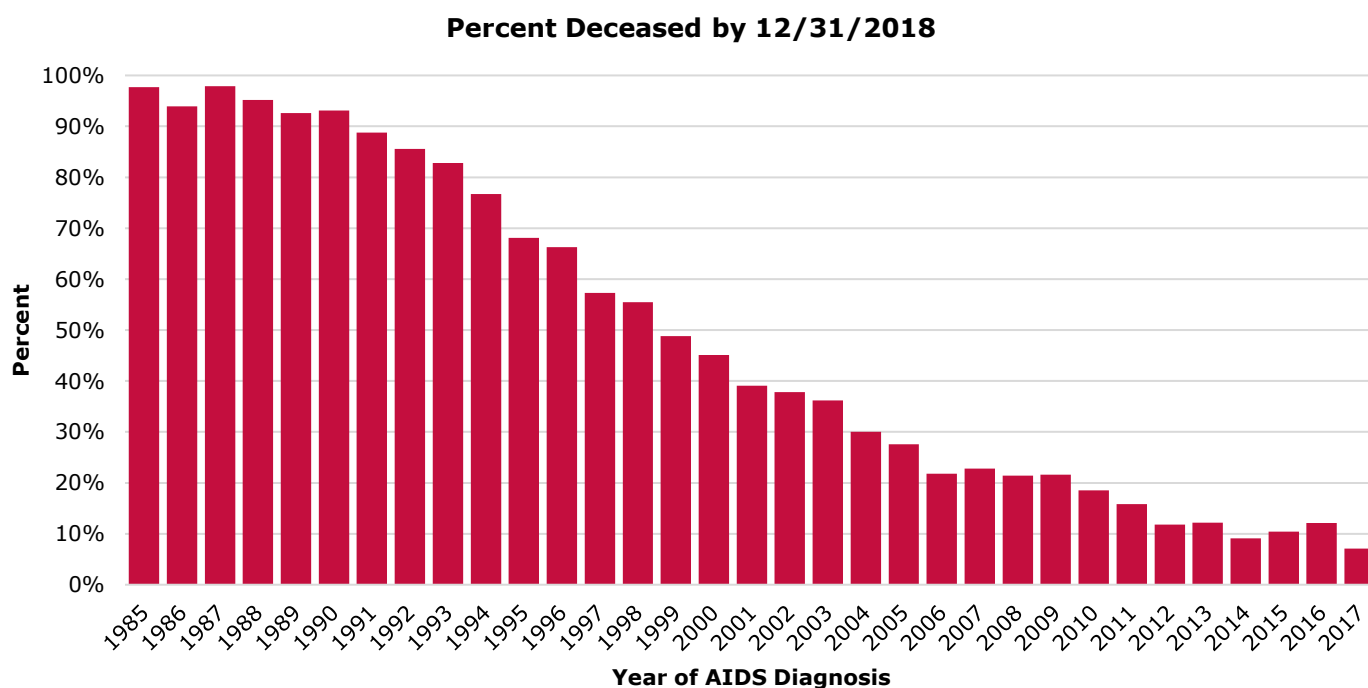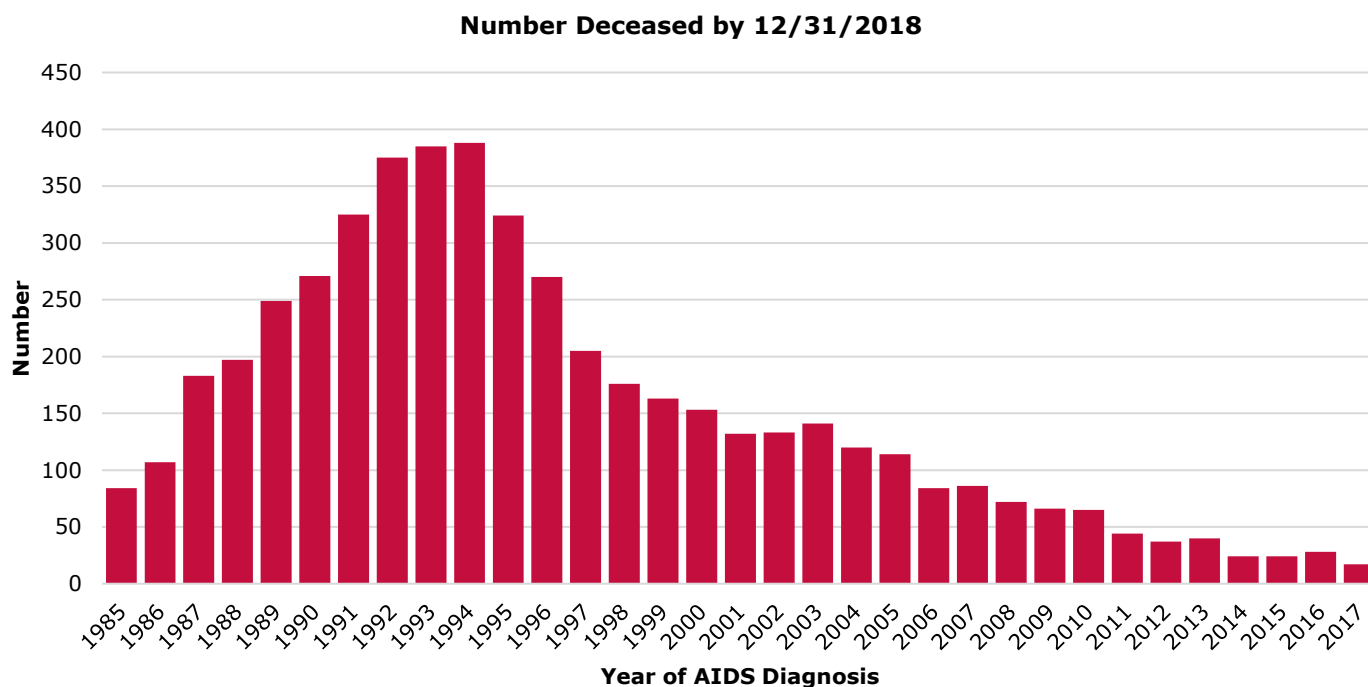
Year of AIDS Diagnosis	Reported AIDS Diagnoses Among People Aged 13+							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Deceased	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	53	53	100.0%	0.9	34.0%	5.7%	1.9%	0.0%
1985	86	84	97.7%	1.4	39.5%	15.1%	11.6%	3.5%
1986	114	107	93.9%	1.9	51.8%	32.5%	12.3%	8.8%
1987	187	183	97.9%	2.1	51.9%	29.4%	10.7%	6.4%
1988	207	197	95.2%	2.0	62.8%	37.2%	14.0%	7.2%
1989	269	249	92.6%	3.2	68.8%	51.3%	22.3%	13.8%
1990	291	271	93.1%	2.9	64.6%	48.1%	21.3%	13.4%
1991	366	325	88.8%	2.7	67.8%	52.2%	19.9%	15.3%
1992	438	375	85.6%	3.1	74.0%	53.4%	26.3%	21.0%
1993	465	385	82.8%	3.6	73.3%	58.1%	34.4%	26.2%
1994	506	388	76.7%	3.6	75.7%	55.7%	40.9%	30.8%
1995	476	324	68.1%	4.8	75.6%	66.0%	55.5%	43.9%
1996	407	270	66.3%	5.3	80.3%	74.4%	63.4%	46.7%
1997	358	205	57.3%	5.2	81.6%	76.0%	64.5%	53.9%
1998	317	176	55.5%	5.4	85.2%	81.1%	70.0%	54.9%
1999	334	163	48.8%	4.7	84.4%	78.7%	70.4%	58.7%
2000	339	153	45.1%	6.1	91.7%	89.4%	78.8%	64.6%
2001	338	132	39.1%	4.9	87.6%	84.0%	76.6%	68.0%
2002	352	133	37.8%	4.7	89.5%	86.6%	76.7%	69.0%
2003	389	141	36.2%	4.5	88.9%	84.1%	77.1%	69.9%
2004	400	120	30.0%	4.6	90.5%	87.8%	81.8%	75.3%
2005	413	114	27.6%	3.8	90.8%	88.6%	81.4%	75.3%
2006	385	84	21.8%	4.1	93.2%	91.2%	86.8%	79.5%
2007	378	86	22.8%	3.4	91.3%	88.4%	84.7%	78.0%
2008	337	72	21.4%	2.6	90.2%	87.2%	83.4%	79.2%
2009	306	66	21.6%	2.6	90.2%	88.6%	83.3%	--
2010	352	65	18.5%	2.5	92.9%	90.3%	85.5%	--
2011	278	44	15.8%	2.1	94.2%	91.0%	85.3%	--
2012	313	37	11.8%	1.5	92.7%	91.1%	89.1%	--
2013	329	40	12.2%	1.4	93.6%	91.5%	88.1%	--
2014	265	24	9.1%	1.4	95.8%	93.6%	--	--
2015	231	24	10.4%	0.9	92.6%	91.3%	--	--
2016	231	28	12.1%	0.5	90.0%	88.3%	--	--
2017*	241	17	7.1%	0.4	94.2%	--	--	--
Total	10,751	5,135	47.8%	3.6	82.9%	75.1%	64.1%	57.2%

*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

Pediatric Reported HIV Diagnoses
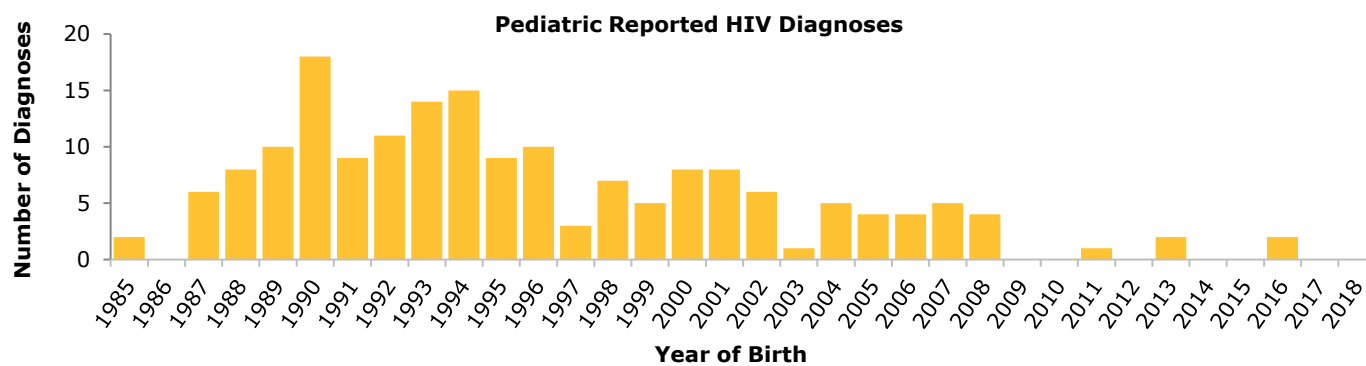
Year	Pediatric Reported HIV Diagnoses				Total Living Pediatric Diagnoses Alive on December 31st of Each Year
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	
<1985	19	2	0	0	--
1985	2	4	2	1	6
1986	0	5	0	0	11
1987	6	6	4	0	17
1988	8	2	3	2	18
1989	10	8	5	2	24
1990	18	13	6	4	33
1991	9	14	7	3	44
1992	11	10	7	2	50
1993	14	8	9	4	53
1994	15	6	4	1	58
1995	9	9	9	5	61
1996	10	13	10	2	70
1997	3	6	5	1	75
1998	7	5	1	3	77
1999	5	10	6	0	86
2000	8	5	3	1	90
2001	8	5	2	2	93
2002	6	10	2	0	103
2003	1	4	2	4	102
2004	5	5	2	2	105
2005	4	7	3	1	111
2006	4	9	3	1	119
2007	5	9	3	1	127
2008	4	5	1	0	134
2009	0	3	2	0	137
2010	0	1	1	1	138
2011	1	1	1	0	140
2012	0	1	0	0	143
2013	2	2	1	0	145
2014	0	3	0	0	148
2015	0	0	6	0	148
2016	2	3	3	1	151
2017	0	1	1	0	154
2018	0	1	4	1	155
Total	196	196	118	45	--

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
Montgomery	9	37.5%
Prince George's	15	62.5%
Total	24	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	9	37.5%
Female	15	62.5%
Race/Ethnicity		
Hispanic	3	12.5%
Non-Hispanic	21	87.5%
American Indian/Alaska Native, only	0	0.0%
Asian, only	1	4.2%
Black, only	16	66.7%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	3	12.5%
Multiracial/Other	1	4.2%
Total	24	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).