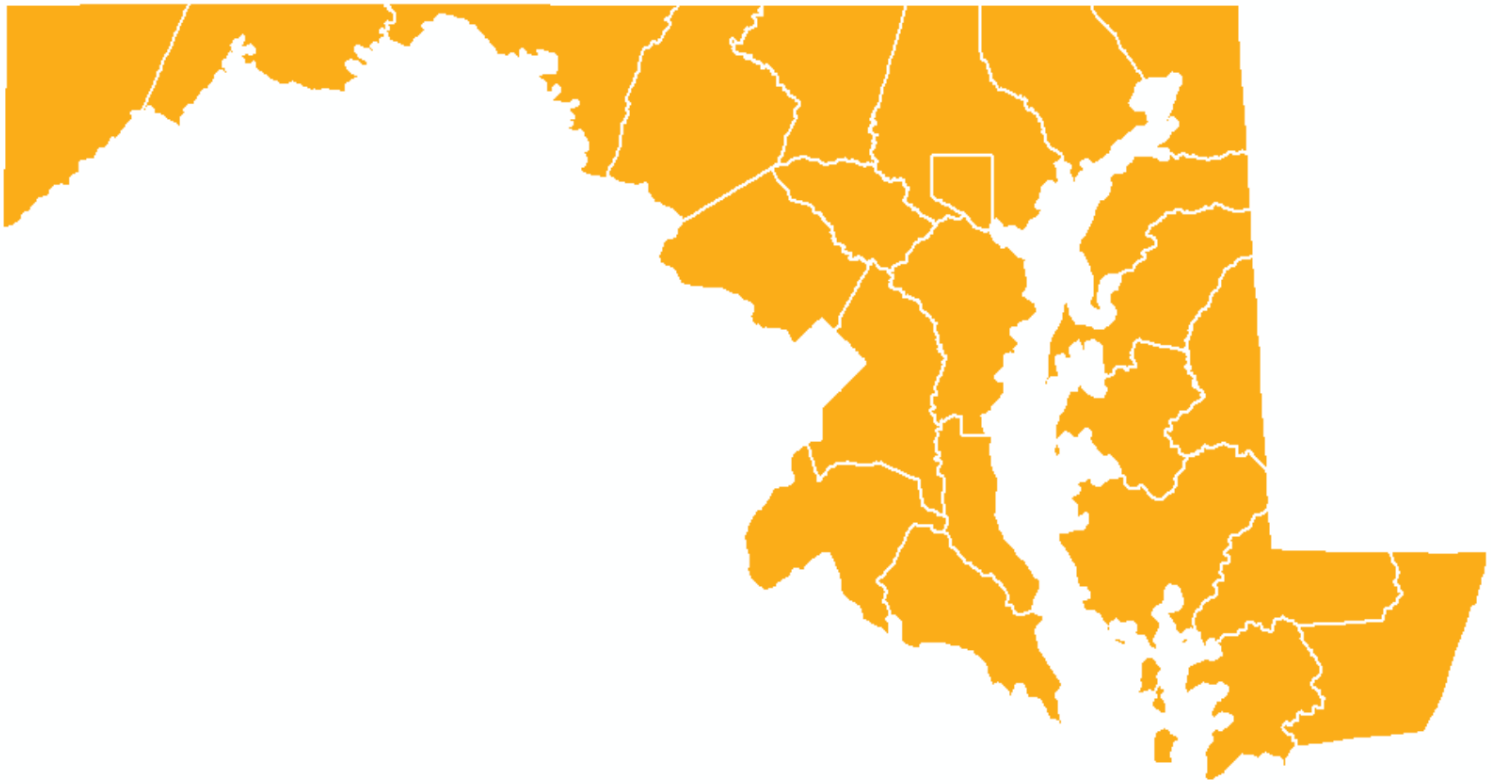
2017



Maryland Annual HIV Epidemiological Profile

Data reported through June 30, 2018

MARYLAND Department of Health

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
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This report was prepared by the following CHSEE staff: Alyssa Arey, Morgan Boyer, James Carrier, Colin Flynn, Molly Gribbin, Veronica Hart, Trevor Hsu and Jami Stockdale.

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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 HIV cases 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 HIV positive mothers 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 HIV and AIDS cases that have been diagnosed 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, 2017. The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.5 percent for the United States and 14.0 percent for Maryland in 2015. 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 2016. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases 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.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of December 31, 2017. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases 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 cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during

the most recent nine and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

This epidemiological profile contains data for transgender HIV and AIDS cases that have been diagnosed 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, 2017. Historically, it has been difficult to fully present data by current gender identification. Data on transgender 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 transgender HIV and AIDS cases because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Lastly, 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 HIV and AIDS cases because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

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 be HIV infected but never have an HIV test 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

A case 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 infection [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 infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases 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 cases 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 2017 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV from January 1,2017 to December 31,2017, as reported by name through June 30, 2018.

To calculate the number of Living Cases we count all Reported Diagnoses from the beginning of the epidemic (all new cases each year) and subtract all Reported Deaths. For example, the Total Living HIV Cases on December 31, 2017 are the total reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of June 30, 2018 as reported by name through June 30, 2018.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult 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+ cells is less than 14 percent. Viral load (VL) 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 VL, 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 VL 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, June 30, 2018.

Population data by sex, age, and race/ethnicity are from the July 1, 2017 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2016 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.

Estimations of those undiagnosed are from the Centers for Disease Control and Prevention's HIV Surveillance Supplemental Report published March 2018. 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 reported HIV cases, 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 cases.
- 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 have an HIV infection or at high risk for an HIV infection. High 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 an HIV positive mother.

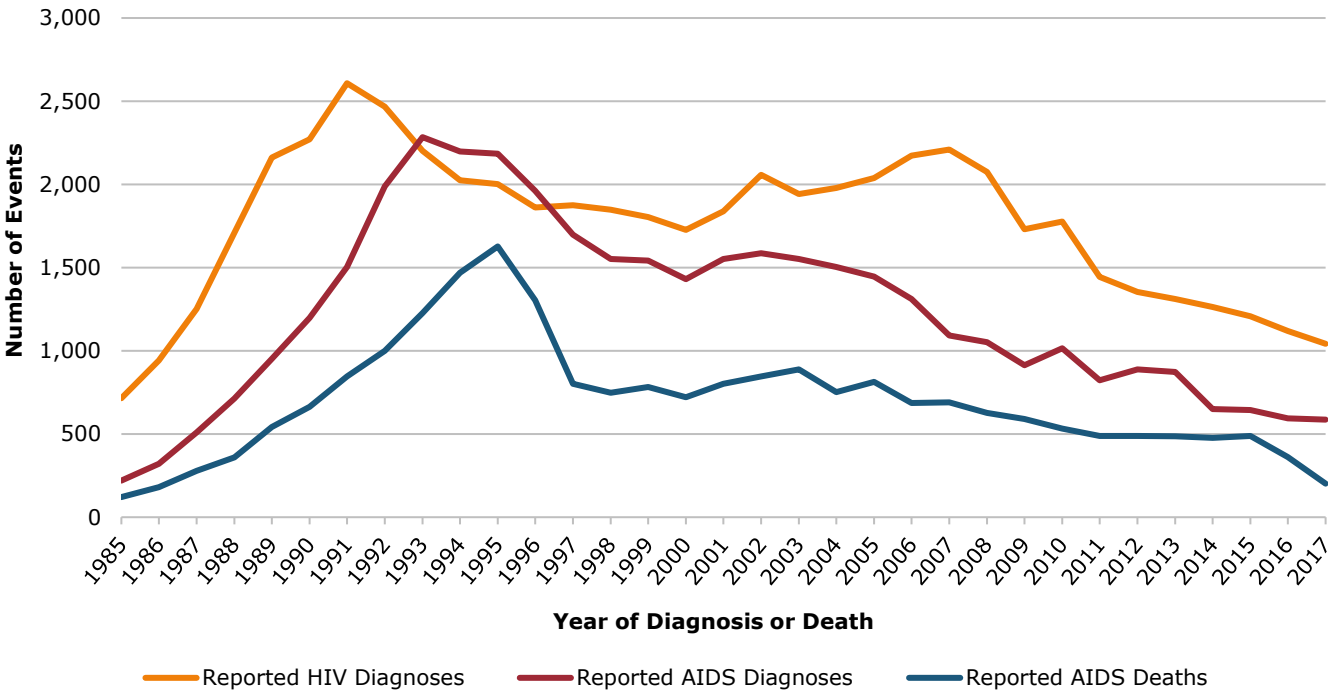
Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. 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 case as well as data in aggregate from other cases 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 1985-2017

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2017 as Reported through June 30, 2018

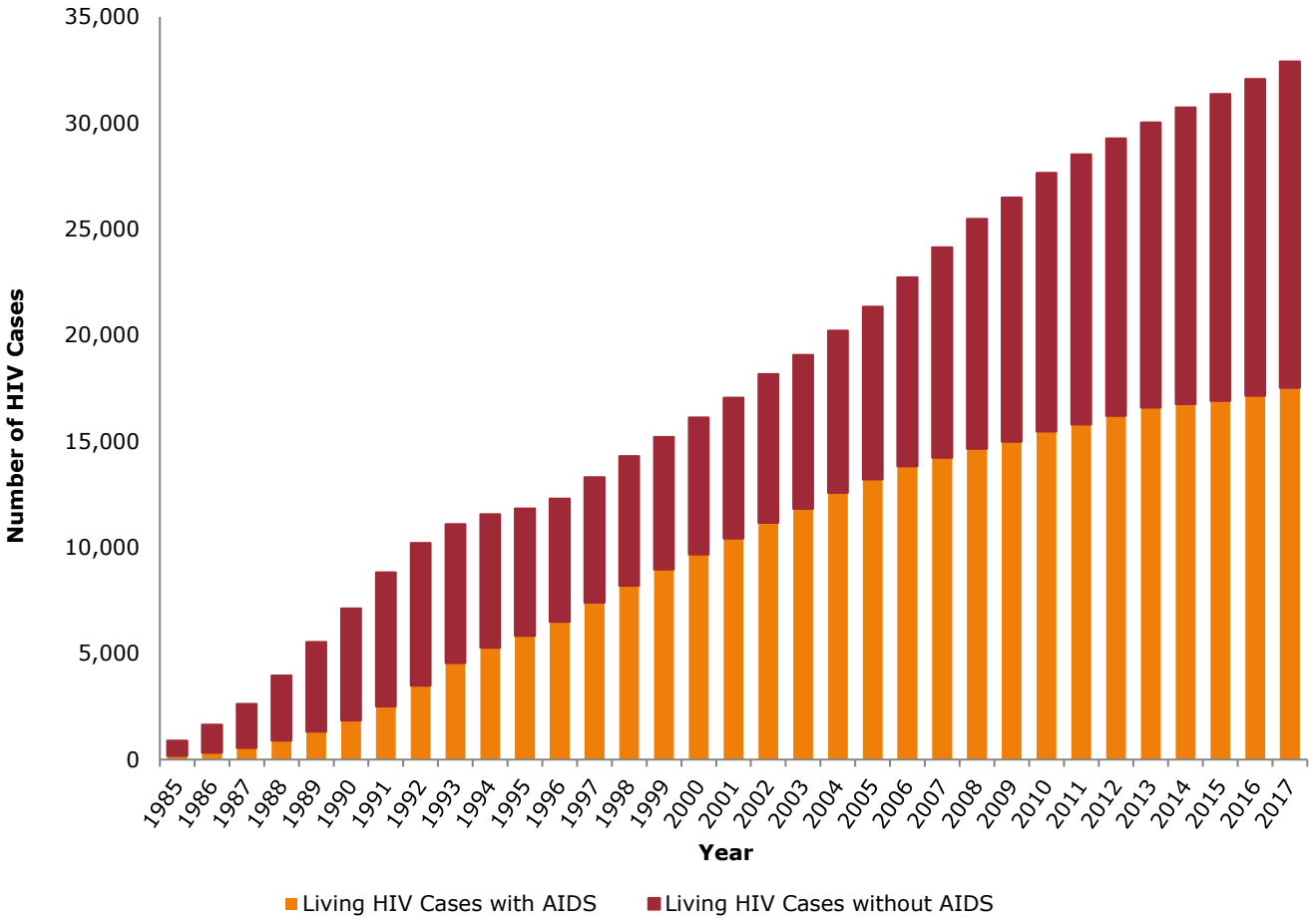


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	374	148	72	**2001**	1,838	1,551	801
1985	715	220	121	**2002**	2,057	1,586	846
1986	943	321	180	**2003**	1,943	1,551	889
1987	1,252	509	279	**2004**	1,979	1,503	752
1988	1,710	713	359	**2005**	2,039	1,446	814
1989	2,162	951	543	**2006**	2,172	1,312	686
1990	2,271	1,197	664	**2007**	2,210	1,093	691
1991	2,608	1,504	846	**2008**	2,074	1,052	627
1992	2,467	1,988	999	**2009**	1,730	913	590
1993	2,201	2,284	1,226	**2010**	1,777	1,016	532
1994	2,024	2,198	1,469	**2011**	1,445	823	488
1995	2,001	2,185	1,627	**2012**	1,354	888	488
1996	1,862	1,961	1,304	**2013**	1,312	873	486
1997	1,874	1,697	802	**2014**	1,263	650	477
1998	1,847	1,552	748	**2015**	1,207	644	489
1999	1,804	1,543	783	**2016***	1,119	594	361
2000	1,726	1,431	721	**2017***	1,043	586	201
				Total	58,403	40,483	22,961

*2016-2017 reported AIDS deaths are preliminary

Figure 2 – Trends in Living HIV Cases, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

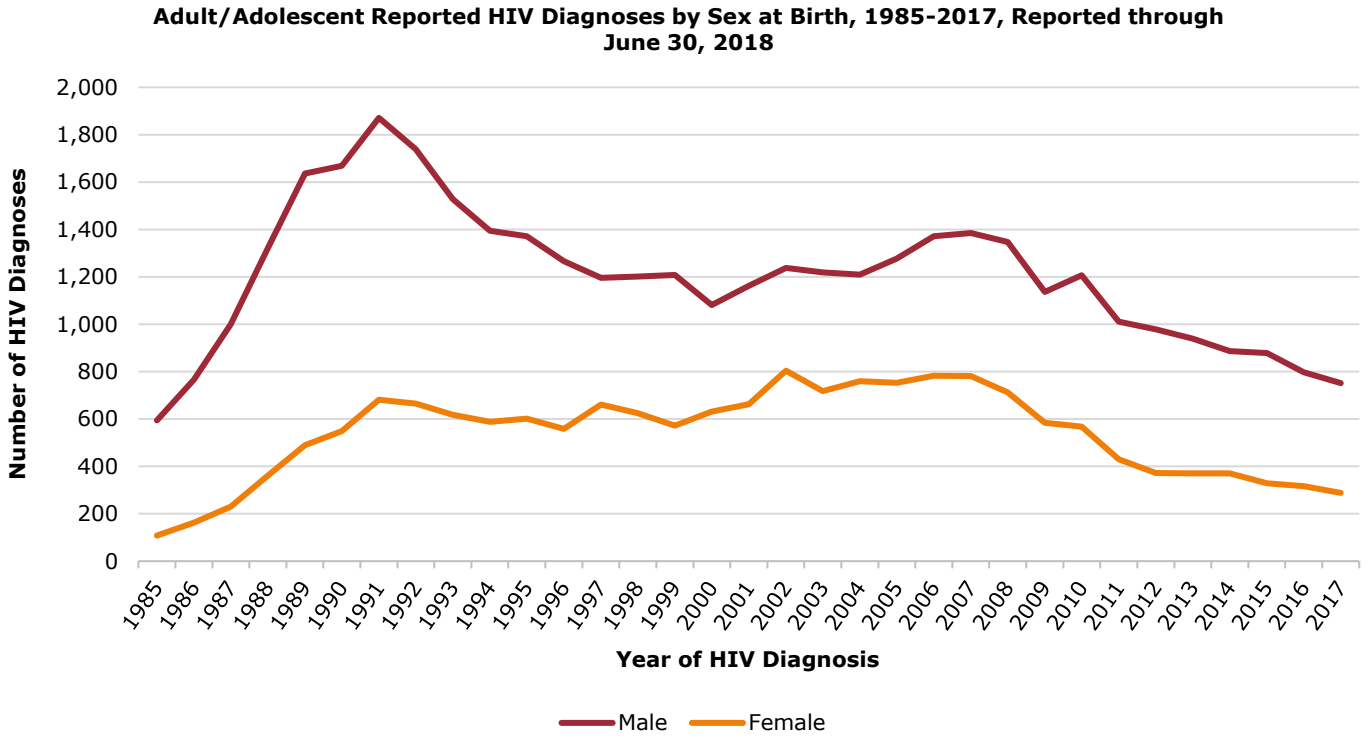
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2017, as Reported through June 30, 2018

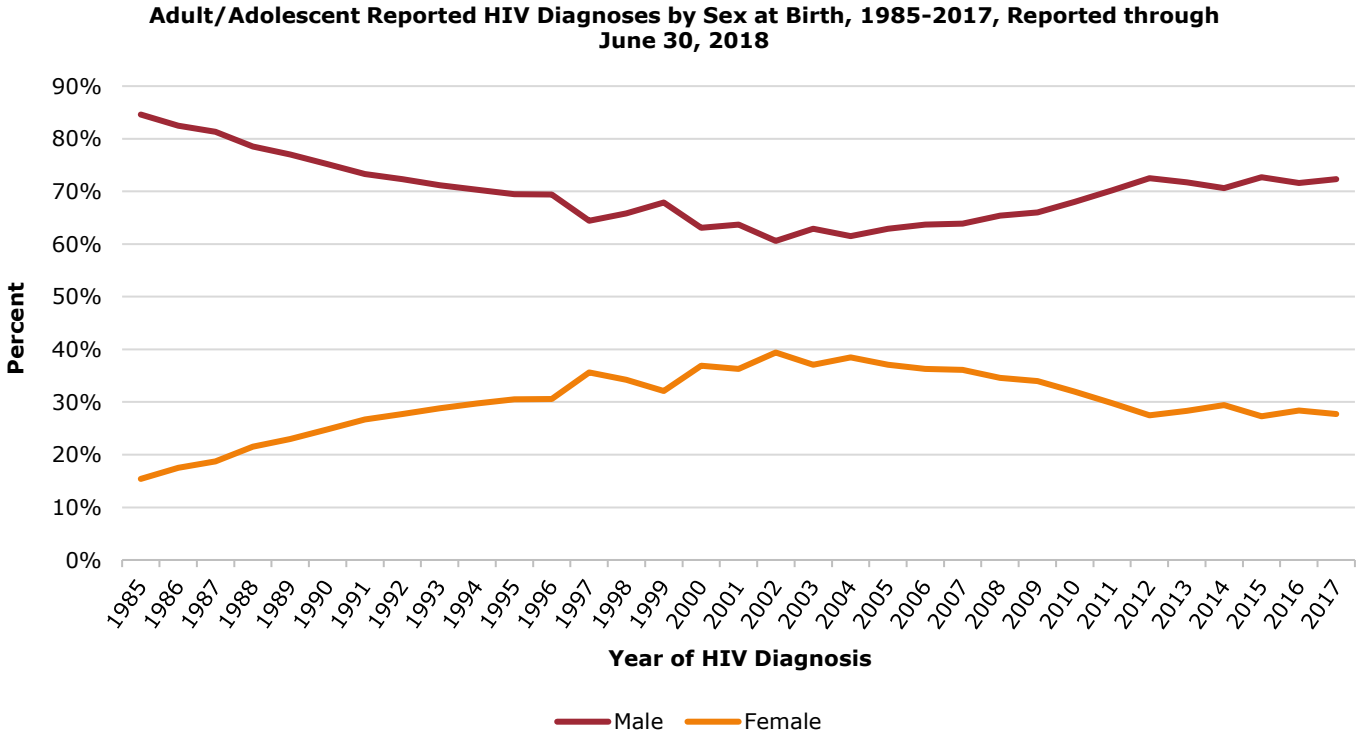


Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases	Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases
1985	724	174	898	**2002**	7,013	11,154	18,167
1986	1,337	315	1,652	**2003**	7,257	11,816	19,073
1987	2,080	546	2,626	**2004**	7,640	12,567	20,207
1988	3,056	900	3,956	**2005**	8,144	13,199	21,343
1989	4,229	1,308	5,537	**2006**	8,897	13,825	22,722
1990	5,277	1,841	7,118	**2007**	9,918	14,227	24,145
1991	6,325	2,499	8,824	**2008**	10,825	14,652	25,477
1992	6,719	3,488	10,207	**2009**	11,520	14,975	26,495
1993	6,543	4,546	11,089	**2010**	12,184	15,459	27,643
1994	6,287	5,277	11,564	**2011**	12,719	15,794	28,513
1995	6,001	5,836	11,837	**2012**	13,084	16,194	29,278
1996	5,811	6,494	12,305	**2013**	13,445	16,581	30,026
1997	5,916	7,389	13,305	**2014**	13,985	16,754	30,739
1998	6,113	8,193	14,306	**2015**	14,454	16,909	31,363
1999	6,255	8,953	15,208	**2016**	14,925	17,142	32,067
2000	6,456	9,663	16,119	**2017**	15,365	17,527	32,892
2001	6,638	10,414	17,052				

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018

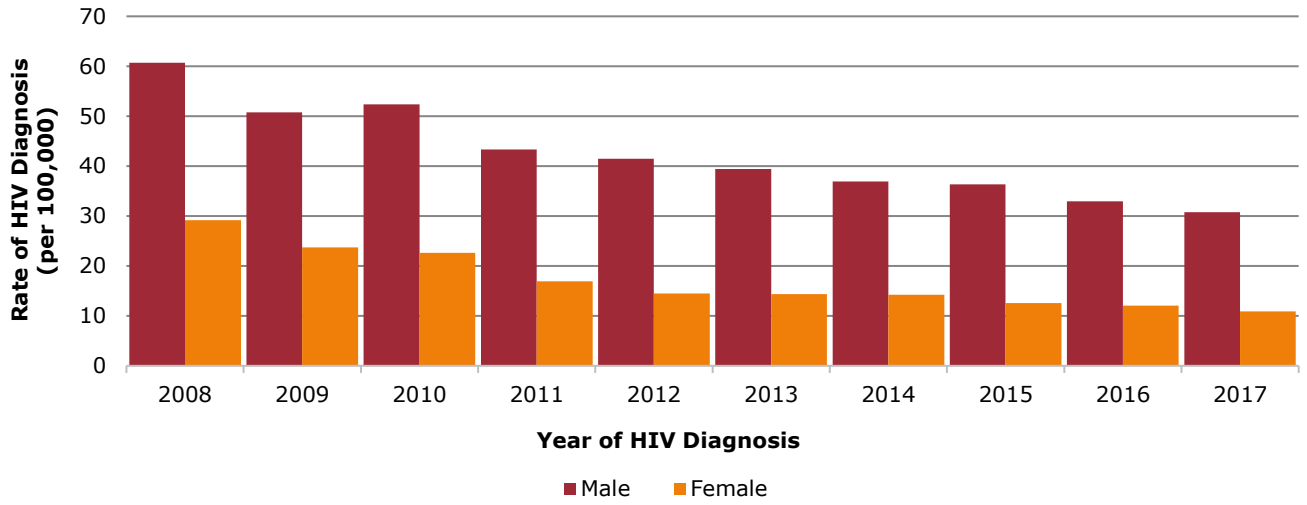




Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses				
	No.	Sex at Birth			
		Male		Female	
		No.	%	No.	%
<1985	371	328	88.4%	43	11.6%
1985	702	594	84.6%	108	15.4%
1986	928	766	82.5%	162	17.5%
1987	1,230	1,000	81.3%	230	18.7%
1988	1,682	1,321	78.5%	361	21.5%
1989	2,126	1,636	77.0%	490	23.0%
1990	2,217	1,668	75.2%	549	24.8%
1991	2,552	1,871	73.3%	681	26.7%
1992	2,404	1,739	72.3%	665	27.7%
1993	2,146	1,528	71.2%	618	28.8%
1994	1,982	1,394	70.3%	588	29.7%
1995	1,972	1,371	69.5%	601	30.5%
1996	1,825	1,266	69.4%	559	30.6%
1997	1,857	1,196	64.4%	661	35.6%
1998	1,826	1,201	65.8%	625	34.2%
1999	1,780	1,208	67.9%	572	32.1%
2000	1,712	1,081	63.1%	631	36.9%
2001	1,824	1,162	63.7%	662	36.3%
2002	2,042	1,238	60.6%	804	39.4%
2003	1,937	1,219	62.9%	718	37.1%
2004	1,969	1,210	61.5%	759	38.5%
2005	2,030	1,277	62.9%	753	37.1%
2006	2,155	1,372	63.7%	783	36.3%
2007	2,166	1,385	63.9%	781	36.1%
2008	2,059	1,347	65.4%	712	34.6%
2009	1,720	1,136	66.0%	584	34.0%
2010	1,774	1,206	68.0%	568	32.0%
2011	1,441	1,011	70.2%	430	29.8%
2012	1,351	979	72.5%	372	27.5%
2013	1,309	939	71.7%	370	28.3%
2014	1,257	887	70.6%	370	29.4%
2015	1,207	878	72.7%	329	27.3%
2016	1,115	798	71.6%	317	28.4%
2017	1,040	752	72.3%	288	27.7%
Total	57,708	39,964	69.3%	17,744	30.7%

Figure 3A – Trends in Rates of Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, among Residents at Diagnosis, 2008-2017, Reported through June 30, 2018

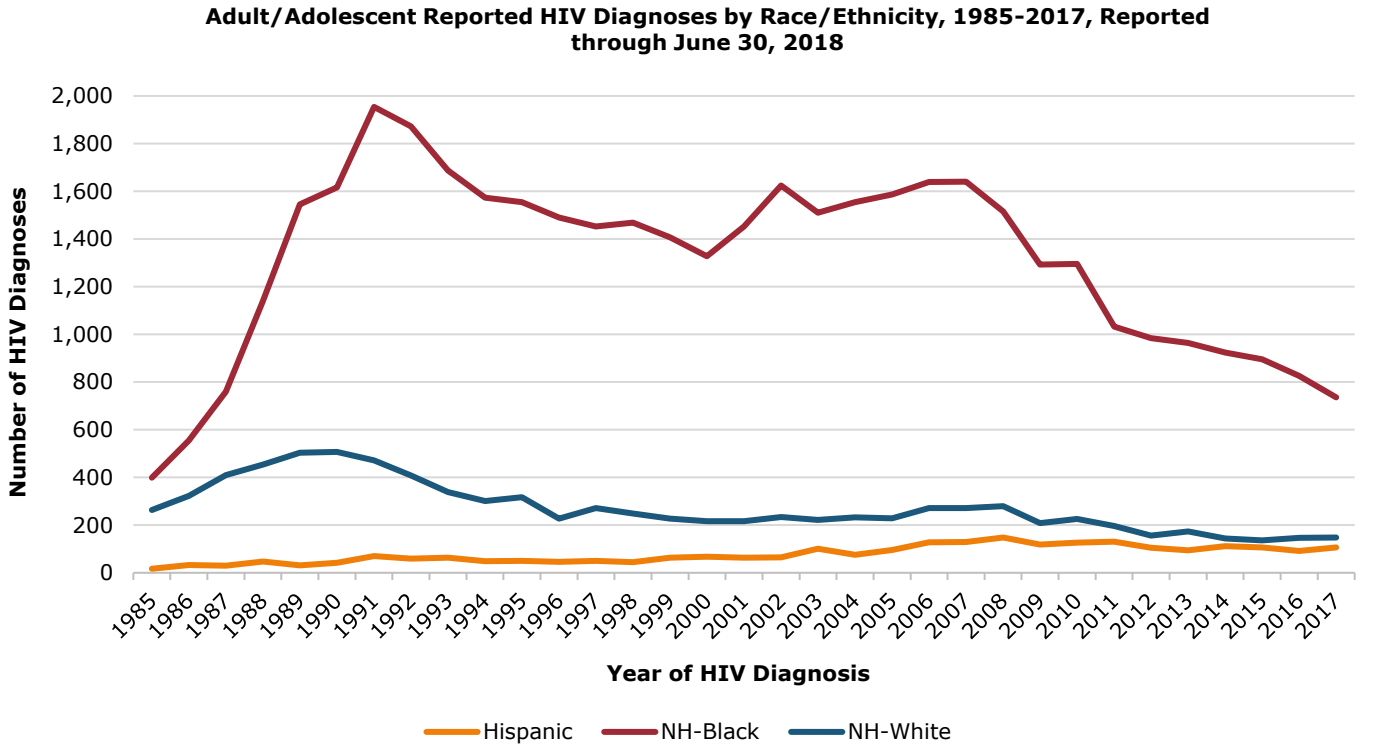
Rate by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2008 through 2017, as Reported through June 30, 2018

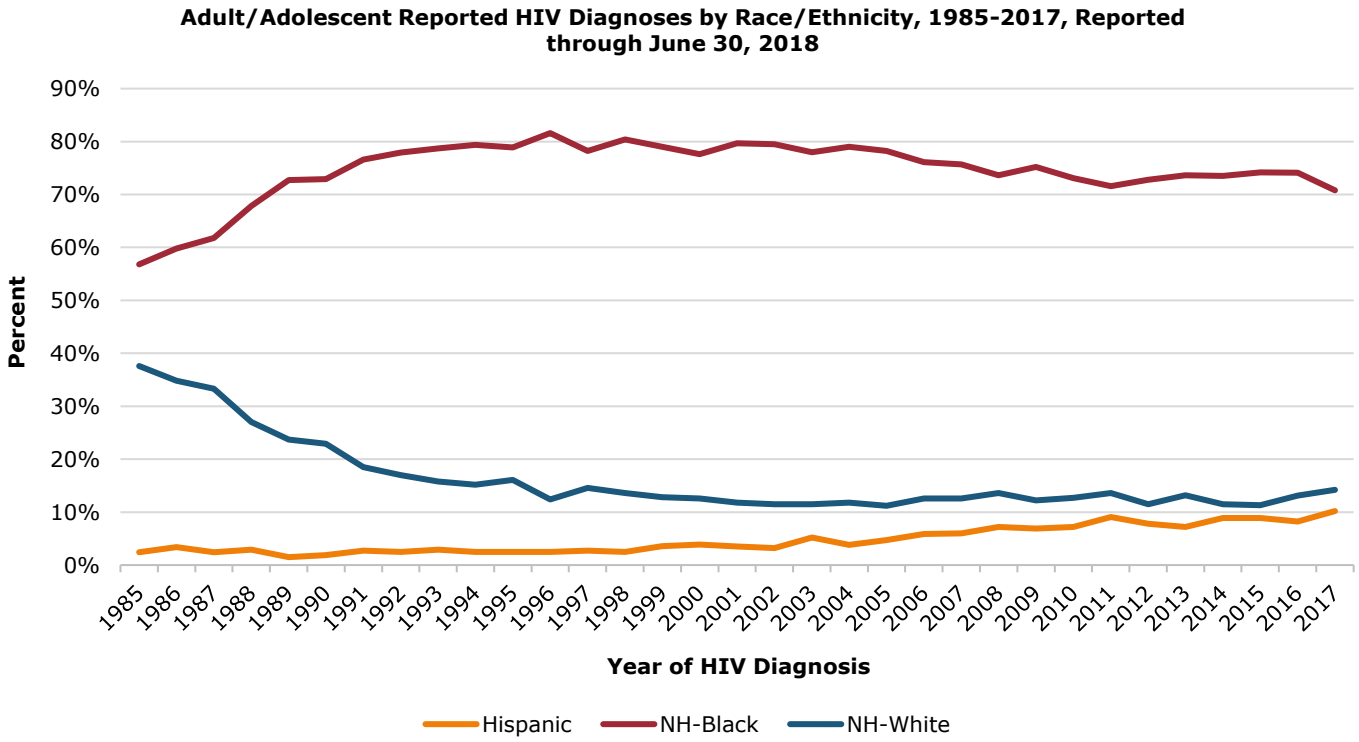


Year of HIV Diagnosis	Total No. of HIV Diagnoses		Sex at Birth	
			Male	Female
2008	2,059	Population	2,219,919	2,442,191
		Cases	1,347	712
		Rate	60.7	29.2
2009	1,720	Population	2,238,829	2,460,976
		Cases	1,136	584
		Rate	50.7	23.7
2010	1,774	Population	2,303,746	2,512,469
		Cases	1,206	568
		Rate	52.3	22.6
2011	1,441	Population	2,331,513	2,537,457
		Cases	1,011	430
		Rate	43.4	16.9
2012	1,351	Population	2,360,279	2,563,656
		Cases	979	372
		Rate	41.5	14.5
2013	1,309	Population	2,382,313	2,581,274
		Cases	939	370
		Rate	39.4	14.3
2014	1,257	Population	2,401,118	2,604,485
		Cases	887	370
		Rate	36.9	14.2
2015	1,207	Population	2,417,134	2,620,873
		Cases	878	329
		Rate	36.3	12.6
2016	1,115	Population	2,421,197	2,627,675
		Cases	798	317
		Rate	33.0	12.1
2017	1,040	Population	2,441,672	2,644,277
		Cases	752	288
		Rate	30.8	10.9

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018



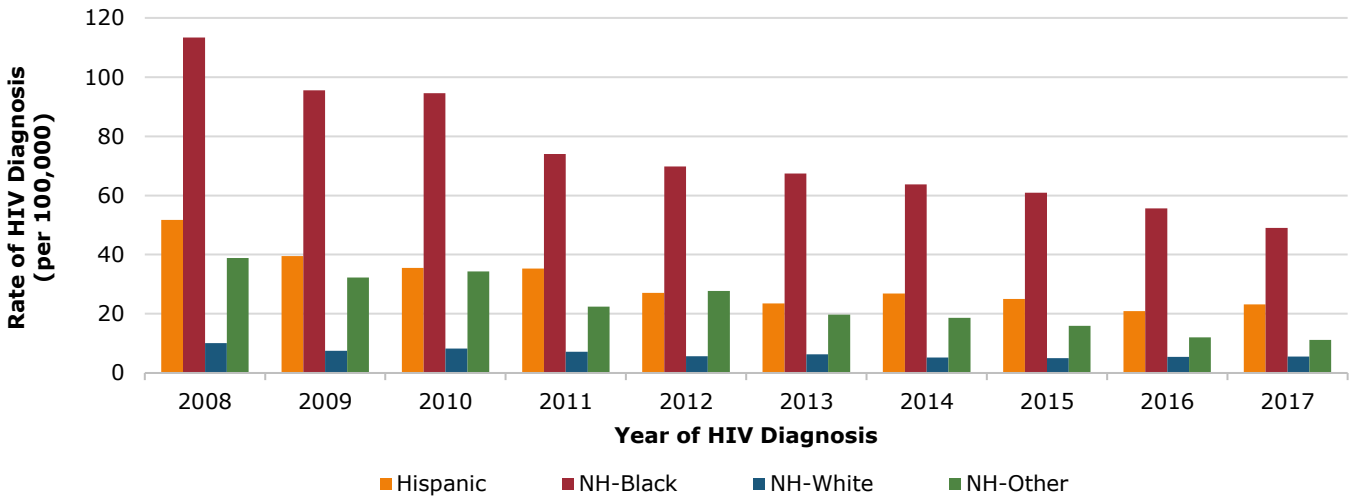


Non-Hispanic Other race not shown

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses								
	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	371	10	2.7%	207	55.8%	141	38.0%	13	3.5%
1985	702	17	2.4%	399	56.8%	264	37.6%	22	3.1%
1986	928	32	3.4%	555	59.8%	323	34.8%	18	1.9%
1987	1,230	30	2.4%	760	61.8%	410	33.3%	30	2.4%
1988	1,682	48	2.9%	1,141	67.8%	454	27.0%	39	2.3%
1989	2,126	31	1.5%	1,545	72.7%	504	23.7%	46	2.2%
1990	2,217	42	1.9%	1,616	72.9%	507	22.9%	52	2.3%
1991	2,552	70	2.7%	1,954	76.6%	471	18.5%	57	2.2%
1992	2,404	59	2.5%	1,873	77.9%	409	17.0%	63	2.6%
1993	2,146	63	2.9%	1,688	78.7%	339	15.8%	56	2.6%
1994	1,982	49	2.5%	1,573	79.4%	301	15.2%	59	3.0%
1995	1,972	50	2.5%	1,555	78.9%	317	16.1%	50	2.5%
1996	1,825	46	2.5%	1,490	81.6%	227	12.4%	62	3.4%
1997	1,857	50	2.7%	1,452	78.2%	272	14.6%	83	4.5%
1998	1,826	45	2.5%	1,469	80.4%	248	13.6%	64	3.5%
1999	1,780	64	3.6%	1,407	79.0%	227	12.8%	82	4.6%
2000	1,712	67	3.9%	1,328	77.6%	216	12.6%	101	5.9%
2001	1,824	63	3.5%	1,453	79.7%	216	11.8%	92	5.0%
2002	2,042	65	3.2%	1,624	79.5%	234	11.5%	119	5.8%
2003	1,937	101	5.2%	1,510	78.0%	222	11.5%	104	5.4%
2004	1,969	75	3.8%	1,555	79.0%	233	11.8%	106	5.4%
2005	2,030	95	4.7%	1,587	78.2%	228	11.2%	120	5.9%
2006	2,155	128	5.9%	1,639	76.1%	271	12.6%	117	5.4%
2007	2,166	129	6.0%	1,640	75.7%	272	12.6%	125	5.8%
2008	2,059	148	7.2%	1,515	73.6%	279	13.6%	117	5.7%
2009	1,720	118	6.9%	1,293	75.2%	209	12.2%	100	5.8%
2010	1,774	127	7.2%	1,296	73.1%	226	12.7%	125	7.0%
2011	1,441	131	9.1%	1,032	71.6%	196	13.6%	82	5.7%
2012	1,351	105	7.8%	984	72.8%	156	11.5%	106	7.8%
2013	1,309	94	7.2%	964	73.6%	173	13.2%	78	6.0%
2014	1,257	112	8.9%	924	73.5%	144	11.5%	77	6.1%
2015	1,207	107	8.9%	896	74.2%	136	11.3%	68	5.6%
2016	1,115	91	8.2%	826	74.1%	146	13.1%	52	4.7%
2017	1,040	106	10.2%	736	70.8%	148	14.2%	50	4.8%
Total	57,708	2,568	4.4%	43,486	75.4%	9,119	15.8%	2,535	4.4%

Figure 4A – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, among Residents at Diagnosis, 2008-2017, Reported through June 30, 2018

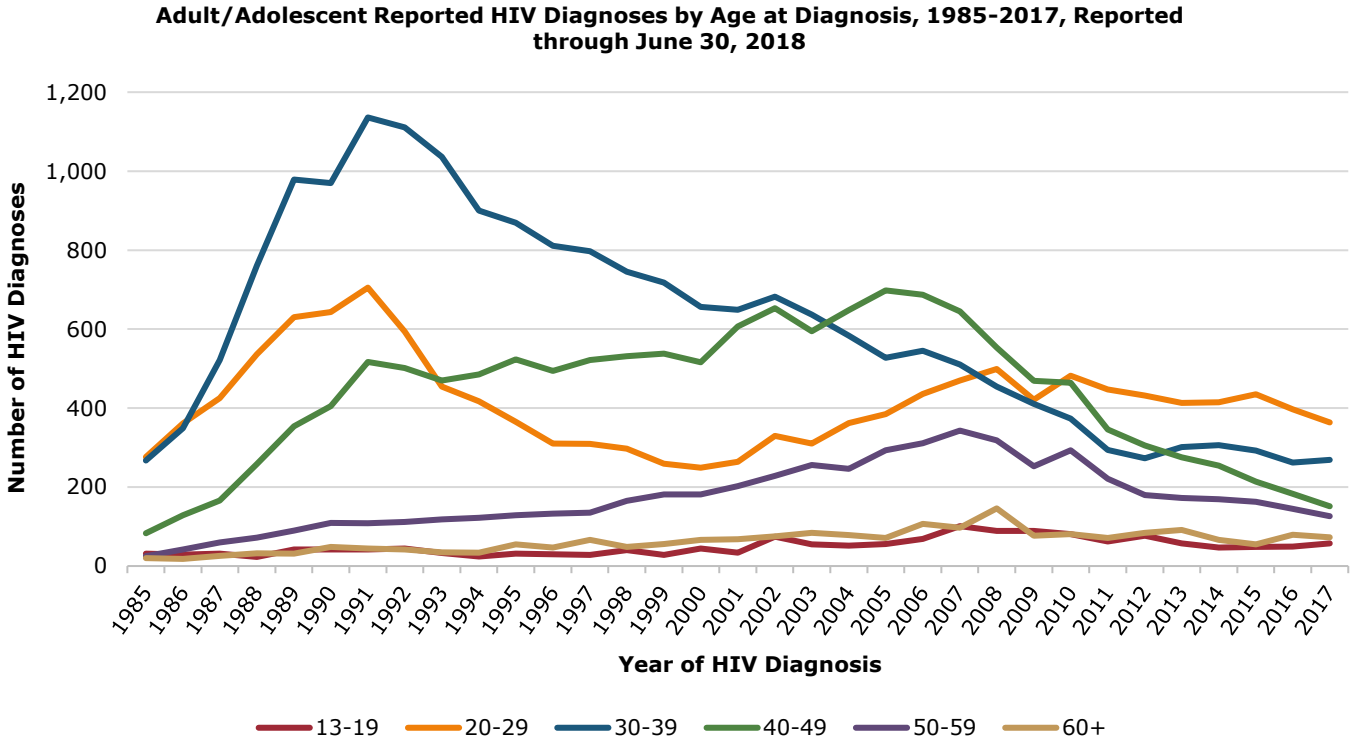
Rate of Adult/Adolescent Reported HIV Cases by Race/Ethnicity, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2008 through 2017, as Reported through June 30, 2018

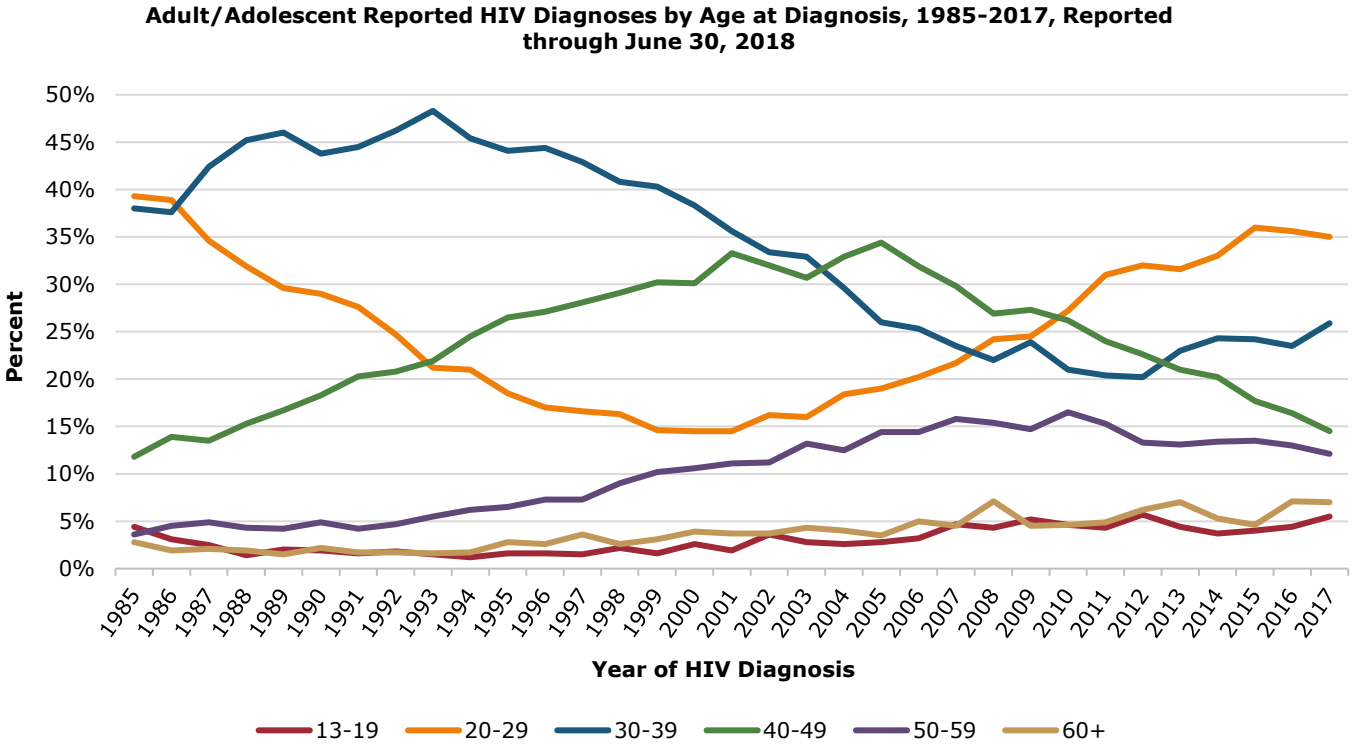


Year of HIV Diagnosis	Total No. of HIV Diagnoses		Race/Ethnicity			
			Hispanic	Non-Hispanic Black	Non-Hispanic White	Non-Hispanic Other Race
2008	2,059	Population	285,931	1,336,116	2,769,180	301,040
		Cases	148	1,515	279	117
		Rate	51.8	113.4	10.1	38.9
2009	1,720	Population	298,277	1,353,474	2,767,918	309,931
		Cases	118	1,293	209	100
		Rate	39.6	95.5	7.6	32.3
2010	1,774	Population	357,468	1,371,064	2,723,736	363,947
		Cases	127	1,296	226	125
		Rate	35.5	94.5	8.3	34.3
2011	1,441	Population	371,383	1,393,686	2,737,345	366,556
		Cases	131	1,032	196	82
		Rate	35.3	74.0	7.2	22.4
2012	1,351	Population	387,644	1,410,623	2,743,271	382,397
		Cases	105	984	156	106
		Rate	27.1	69.8	5.7	27.7
2013	1,309	Population	400,635	1,429,549	2,738,027	395,374
		Cases	94	964	173	78
		Rate	23.5	67.4	6.3	19.7
2014	1,257	Population	417,605	1,448,739	2,727,042	412,218
		Cases	112	924	144	77
		Rate	26.8	63.8	5.3	18.7
2015	1,207	Population	427,308	1,469,412	2,714,422	426,865
		Cases	107	896	136	68
		Rate	25.0	61.0	5.0	15.9
2016	1,115	Population	435,996	1,484,918	2,695,282	432,676
		Cases	91	826	146	52
		Rate	20.9	55.6	5.4	12.0
2017	1,040	Population	457,055	1,502,397	2,679,495	447,002
		Cases	106	736	148	50
		Rate	23.2	49.0	5.5	11.2

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018

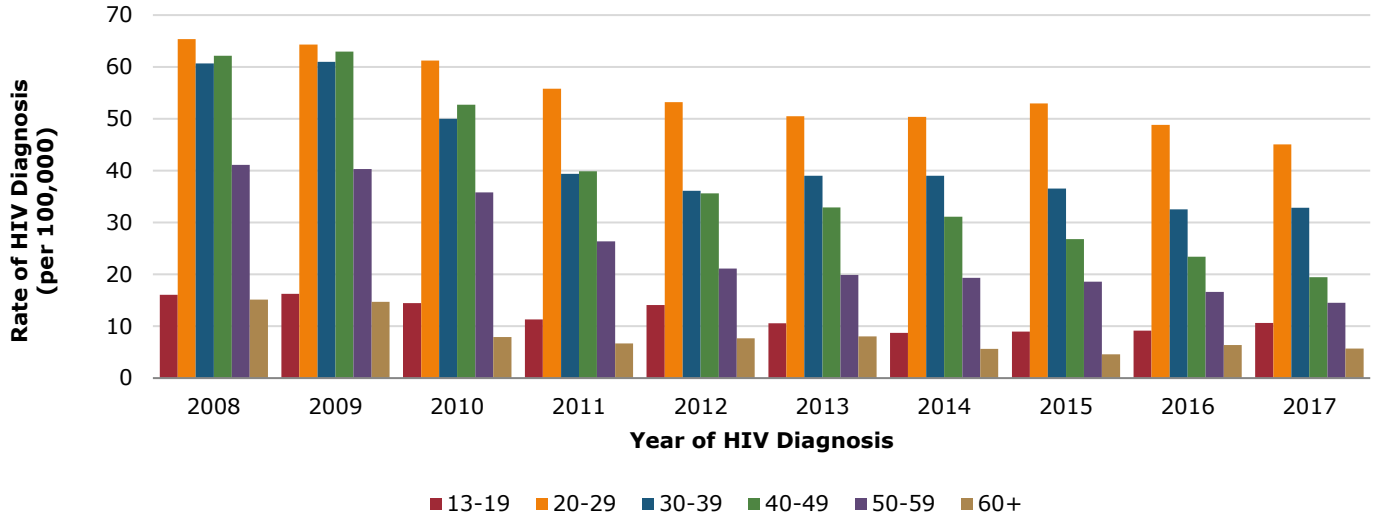




Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses												
	No.	Age at HIV Diagnosis											
		Age 13-19		Age 20-29		Age 30-39		Age 40-49		Age 50-59		Age 60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	371	30	8.1%	151	40.7%	113	30.5%	54	14.6%	19	5.1%	4	1.1%
1985	702	31	4.4%	276	39.3%	267	38.0%	83	11.8%	25	3.6%	20	2.8%
1986	928	29	3.1%	361	38.9%	349	37.6%	129	13.9%	42	4.5%	18	1.9%
1987	1,230	31	2.5%	425	34.6%	522	42.4%	166	13.5%	60	4.9%	26	2.1%
1988	1,682	23	1.4%	536	31.9%	761	45.2%	258	15.3%	72	4.3%	32	1.9%
1989	2,126	42	2.0%	630	29.6%	979	46.0%	354	16.7%	90	4.2%	31	1.5%
1990	2,217	42	1.9%	643	29.0%	970	43.8%	405	18.3%	109	4.9%	48	2.2%
1991	2,552	42	1.6%	705	27.6%	1,136	44.5%	517	20.3%	108	4.2%	44	1.7%
1992	2,404	44	1.8%	594	24.7%	1,111	46.2%	501	20.8%	112	4.7%	42	1.7%
1993	2,146	33	1.5%	454	21.2%	1,036	48.3%	470	21.9%	118	5.5%	35	1.6%
1994	1,982	24	1.2%	417	21.0%	900	45.4%	485	24.5%	122	6.2%	34	1.7%
1995	1,972	31	1.6%	365	18.5%	869	44.1%	523	26.5%	129	6.5%	55	2.8%
1996	1,825	30	1.6%	310	17.0%	811	44.4%	494	27.1%	133	7.3%	47	2.6%
1997	1,857	28	1.5%	309	16.6%	797	42.9%	522	28.1%	135	7.3%	66	3.6%
1998	1,826	40	2.2%	297	16.3%	745	40.8%	531	29.1%	165	9.0%	48	2.6%
1999	1,780	28	1.6%	259	14.6%	718	40.3%	538	30.2%	181	10.2%	56	3.1%
2000	1,712	44	2.6%	249	14.5%	656	38.3%	516	30.1%	181	10.6%	66	3.9%
2001	1,824	34	1.9%	264	14.5%	649	35.6%	607	33.3%	202	11.1%	68	3.7%
2002	2,042	74	3.6%	330	16.2%	682	33.4%	653	32.0%	228	11.2%	75	3.7%
2003	1,937	55	2.8%	310	16.0%	637	32.9%	595	30.7%	256	13.2%	84	4.3%
2004	1,969	52	2.6%	362	18.4%	583	29.6%	648	32.9%	246	12.5%	78	4.0%
2005	2,030	56	2.8%	385	19.0%	527	26.0%	698	34.4%	293	14.4%	71	3.5%
2006	2,155	69	3.2%	436	20.2%	545	25.3%	687	31.9%	311	14.4%	107	5.0%
2007	2,166	101	4.7%	470	21.7%	510	23.5%	645	29.8%	343	15.8%	97	4.5%
2008	2,059	89	4.3%	499	24.2%	454	22.0%	553	26.9%	318	15.4%	146	7.1%
2009	1,720	89	5.2%	421	24.5%	411	23.9%	469	27.3%	253	14.7%	77	4.5%
2010	1,774	81	4.6%	482	27.2%	373	21.0%	464	26.2%	293	16.5%	81	4.6%
2011	1,441	62	4.3%	447	31.0%	294	20.4%	346	24.0%	221	15.3%	71	4.9%
2012	1,351	77	5.7%	432	32.0%	273	20.2%	305	22.6%	180	13.3%	84	6.2%
2013	1,309	57	4.4%	413	31.6%	301	23.0%	275	21.0%	172	13.1%	91	7.0%
2014	1,257	47	3.7%	415	33.0%	306	24.3%	254	20.2%	169	13.4%	66	5.3%
2015	1,207	48	4.0%	435	36.0%	292	24.2%	214	17.7%	163	13.5%	55	4.6%
2016	1,115	49	4.4%	397	35.6%	262	23.5%	183	16.4%	145	13.0%	79	7.1%
2017	1,040	57	5.5%	364	35.0%	269	25.9%	151	14.5%	126	12.1%	73	7.0%
Total	57,708	1,669	2.9%	13,843	24.0%	20,108	34.8%	14,293	24.8%	5,720	9.9%	2,075	3.6%

Figure 5A – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, among Residents at Diagnosis, 2008-2017, Reported through June 30, 2018

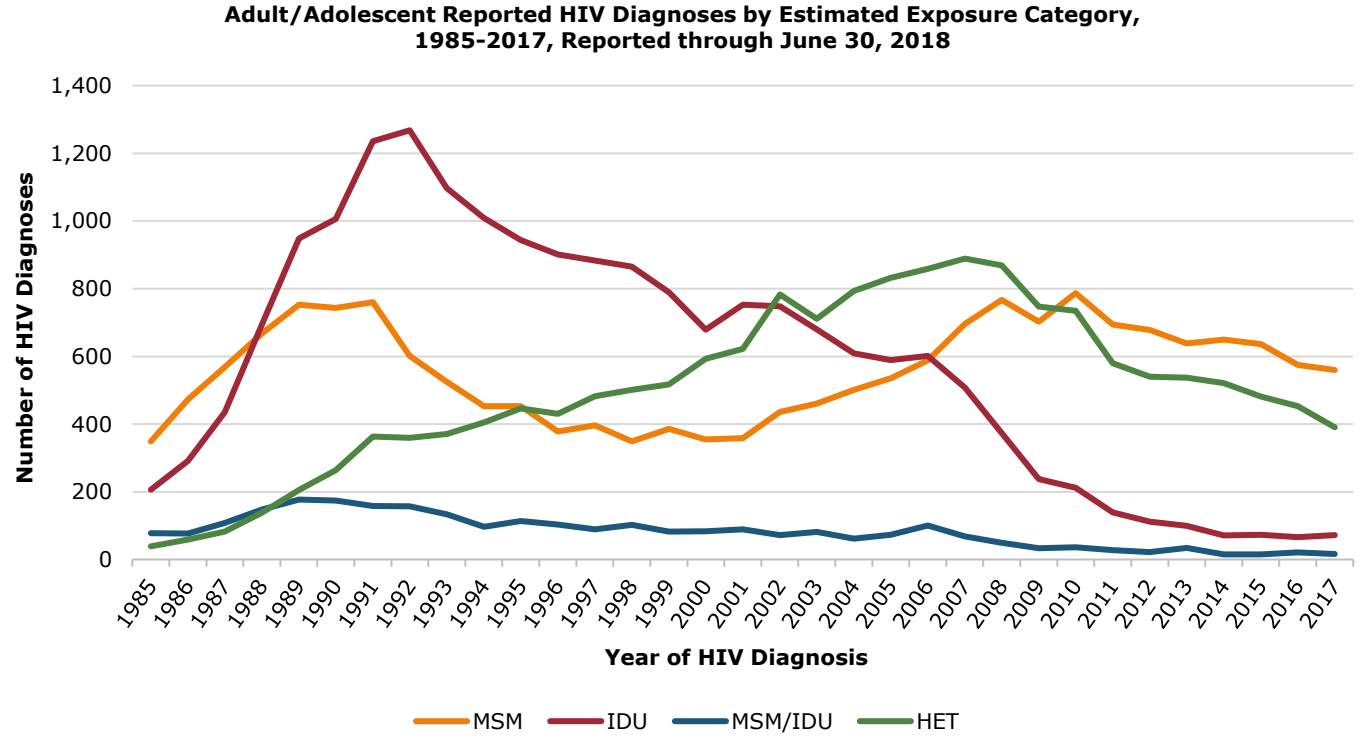
Rate of HIV Diagnosis of Adult/Adolescent Reported HIV Cases by Age, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2008 through 2017, as Reported through June 30, 2018

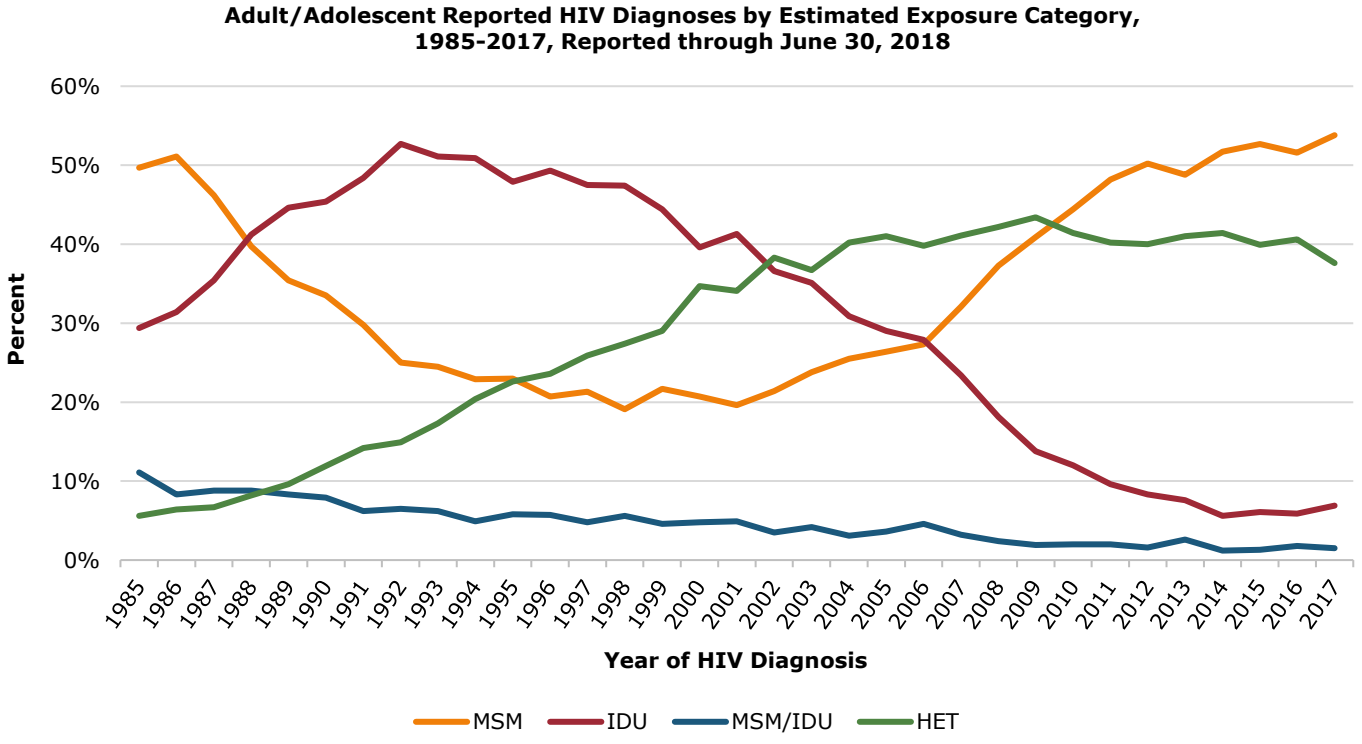


Year of HIV Diagnosis	Total No. of HIV Diagnoses		Age at HIV Diagnosis					
			Age 13-19	Age 20-29	Age 30-39	Age 40-49	Age 50-59	Age 60+
2008	2,059	Population	553,855	763,450	748,586	889,690	773,153	963,533
		Cases	89	499	454	553	318	146
		Rate	16.1	65.4	60.6	62.2	41.1	15.2
2009	1,720	Population	547,568	775,650	744,736	877,993	789,380	994,273
		Cases	89	499	454	553	318	146
		Rate	16.3	64.3	61.0	63.0	40.3	14.7
2010	1,774	Population	559,289	787,246	745,903	879,748	818,608	1,025,421
		Cases	81	482	373	464	293	81
		Rate	14.5	61.2	50.0	52.7	35.8	7.9
2011	1,441	Population	549,363	800,985	746,128	868,133	838,152	1,066,209
		Cases	62	447	294	346	221	71
		Rate	11.3	55.8	39.4	39.9	26.4	6.7
2012	1,351	Population	547,321	811,949	756,067	856,920	853,272	1,098,406
		Cases	77	432	273	305	180	84
		Rate	14.1	53.2	36.1	35.6	21.1	7.6
2013	1,309	Population	539,781	817,635	770,888	836,318	863,937	1,135,027
		Cases	57	413	301	275	172	91
		Rate	10.6	50.5	39.0	32.9	19.9	8.0
2014	1,257	Population	537,622	824,064	784,896	816,003	874,069	1,168,949
		Cases	47	415	306	254	169	66
		Rate	8.7	50.4	39.0	31.1	19.3	5.6
2015	1,207	Population	535,085	821,815	798,728	799,172	877,441	1,205,766
		Cases	48	435	292	214	163	55
		Rate	9.0	52.9	36.6	26.8	18.6	4.6
2016	1,115	Population	535,456	813,083	805,789	782,137	873,010	1,239,397
		Cases	49	397	262	183	145	79
		Rate	9.2	48.8	32.5	23.4	16.6	6.4
2017	1,040	Population	535,544	807,873	819,147	776,289	867,798	1,279,298
		Cases	57	364	269	151	126	73
		Rate	10.6	45.1	32.8	19.5	14.5	5.7

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Estimated Exposure Category§ of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018





Other exposure category not shown

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

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses											
	No.	% with No Reported Exposure[¥]	Estimated Exposure Category[§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	371	5.9%	217	58.4%	86	23.1%	37	9.9%	19	5.1%	13	3.5%
1985	702	5.0%	349	49.7%	206	29.4%	78	11.1%	39	5.6%	30	4.3%
1986	928	3.1%	473	51.1%	291	31.4%	77	8.3%	59	6.4%	26	2.8%
1987	1,230	3.4%	568	46.2%	435	35.4%	108	8.8%	82	6.7%	36	2.9%
1988	1,682	3.9%	668	39.7%	694	41.2%	148	8.8%	138	8.2%	35	2.1%
1989	2,126	3.7%	753	35.4%	948	44.6%	177	8.3%	205	9.6%	44	2.1%
1990	2,217	4.5%	743	33.5%	1,006	45.4%	174	7.9%	264	11.9%	30	1.4%
1991	2,552	4.7%	760	29.8%	1,236	48.4%	158	6.2%	363	14.2%	35	1.4%
1992	2,404	6.1%	601	25.0%	1,268	52.7%	157	6.5%	359	14.9%	19	0.8%
1993	2,146	4.2%	525	24.5%	1,097	51.1%	133	6.2%	371	17.3%	20	0.9%
1994	1,982	5.4%	453	22.9%	1,009	50.9%	97	4.9%	405	20.4%	19	1.0%
1995	1,972	6.4%	453	23.0%	944	47.9%	114	5.8%	446	22.6%	14	0.7%
1996	1,825	7.3%	378	20.7%	901	49.3%	103	5.7%	430	23.6%	13	0.7%
1997	1,857	8.2%	396	21.3%	883	47.5%	89	4.8%	482	25.9%	7	0.4%
1998	1,826	8.3%	349	19.1%	865	47.4%	102	5.6%	501	27.4%	9	0.5%
1999	1,780	9.6%	386	21.7%	790	44.4%	82	4.6%	517	29.0%	5	0.3%
2000	1,712	10.3%	355	20.7%	679	39.6%	83	4.8%	593	34.7%	3	0.2%
2001	1,824	10.4%	358	19.6%	753	41.3%	89	4.9%	622	34.1%	2	0.1%
2002	2,042	11.1%	436	21.4%	748	36.6%	72	3.5%	783	38.3%	3	0.1%
2003	1,937	10.7%	461	23.8%	680	35.1%	81	4.2%	711	36.7%	4	0.2%
2004	1,969	13.6%	501	25.5%	609	30.9%	62	3.1%	793	40.2%	5	0.3%
2005	2,030	16.8%	535	26.4%	589	29.0%	73	3.6%	832	41.0%	2	0.1%
2006	2,155	21.7%	588	27.3%	601	27.9%	100	4.6%	859	39.8%	7	0.3%
2007	2,166	24.9%	696	32.1%	508	23.4%	68	3.2%	889	41.1%	5	0.2%
2008	2,059	32.2%	767	37.3%	374	18.1%	49	2.4%	869	42.2%	0	0.0%
2009	1,720	32.9%	703	40.9%	237	13.8%	33	1.9%	747	43.4%	0	0.0%
2010	1,774	35.3%	787	44.4%	212	12.0%	36	2.0%	735	41.4%	3	0.2%
2011	1,441	32.3%	694	48.2%	139	9.6%	28	2.0%	580	40.2%	0	0.0%
2012	1,351	21.5%	678	50.2%	112	8.3%	22	1.6%	540	40.0%	0	0.0%
2013	1,309	17.0%	638	48.8%	99	7.6%	34	2.6%	537	41.0%	1	0.1%
2014	1,257	15.6%	650	51.7%	71	5.6%	15	1.2%	521	41.4%	1	0.1%
2015	1,207	10.7%	636	52.7%	73	6.1%	15	1.3%	481	39.9%	1	0.1%
2016	1,115	16.2%	575	51.6%	66	5.9%	21	1.8%	453	40.6%	1	0.1%
2017	1,040	19.2%	560	53.8%	72	6.9%	16	1.5%	391	37.6%	2	0.2%
Total	57,708	13.0%	18,690	32.4%	19,277	33.4%	2,729	4.7%	16,613	28.8%	395	0.7%

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

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

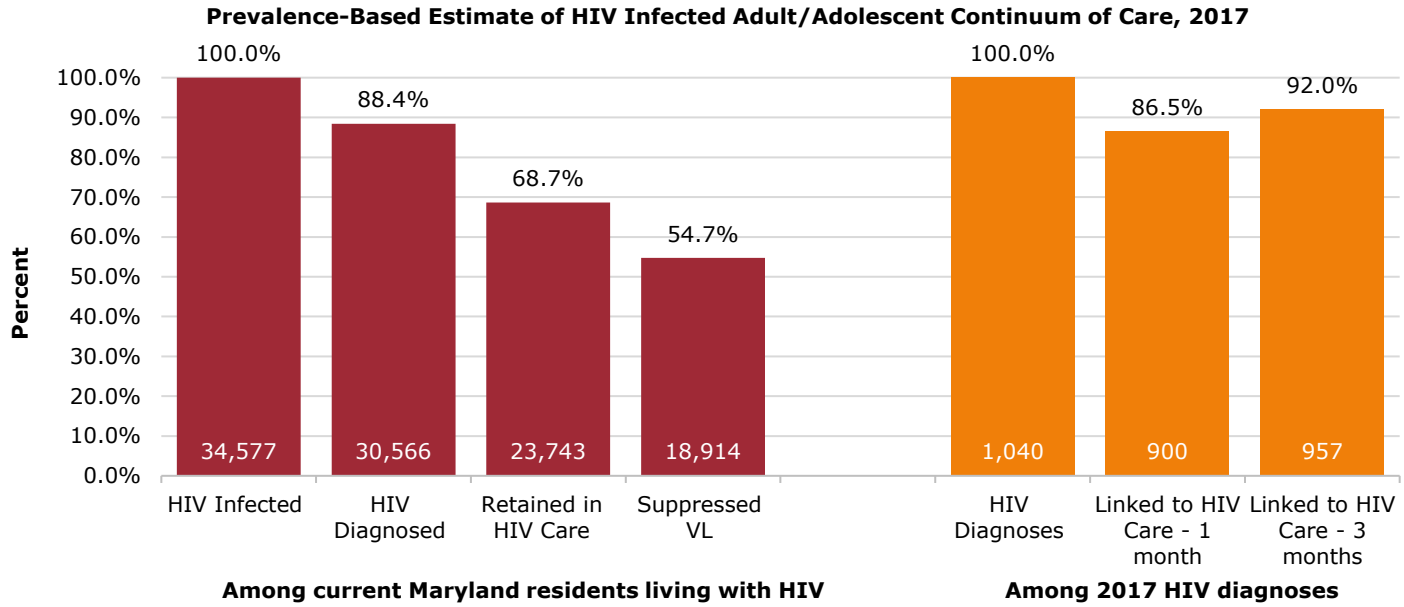
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of cases missing transmission category after multiple imputation

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 7 – Prevalence-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Maryland Residents, Reported through June 30, 2018

The prevalence-based Maryland 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, 2018, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of HIV infected persons currently residing in Maryland. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in Maryland on December 31,2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	34,577	100.0%	New HIV Diagnoses	1,040	100.0%
HIV Diagnosed	30,566	88.4%	Linked to HIV Care – 1 Month	900	86.5%
Retained in HIV Care	23,743	68.7%	Linked to HIV Care – 3 Months	957	92.0%
Suppressed VL	18,914	54.7%			

[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 7A – Prevalence-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Maryland Residents, by Sex at Birth, Reported through June 30, 2018

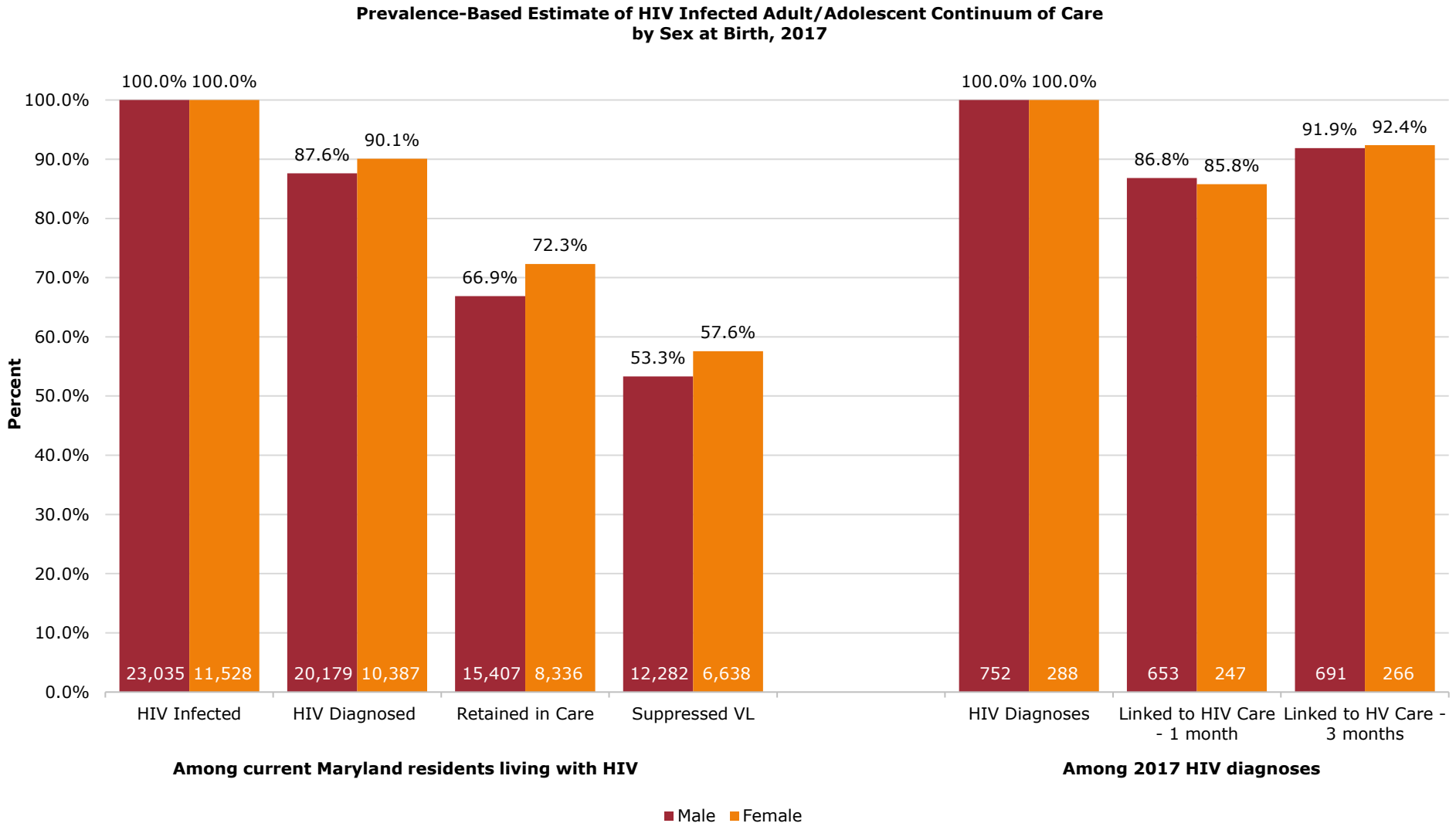


Figure 7B – Prevalence-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Maryland Residents, by Race/Ethnicity, Reported through June 30, 2018

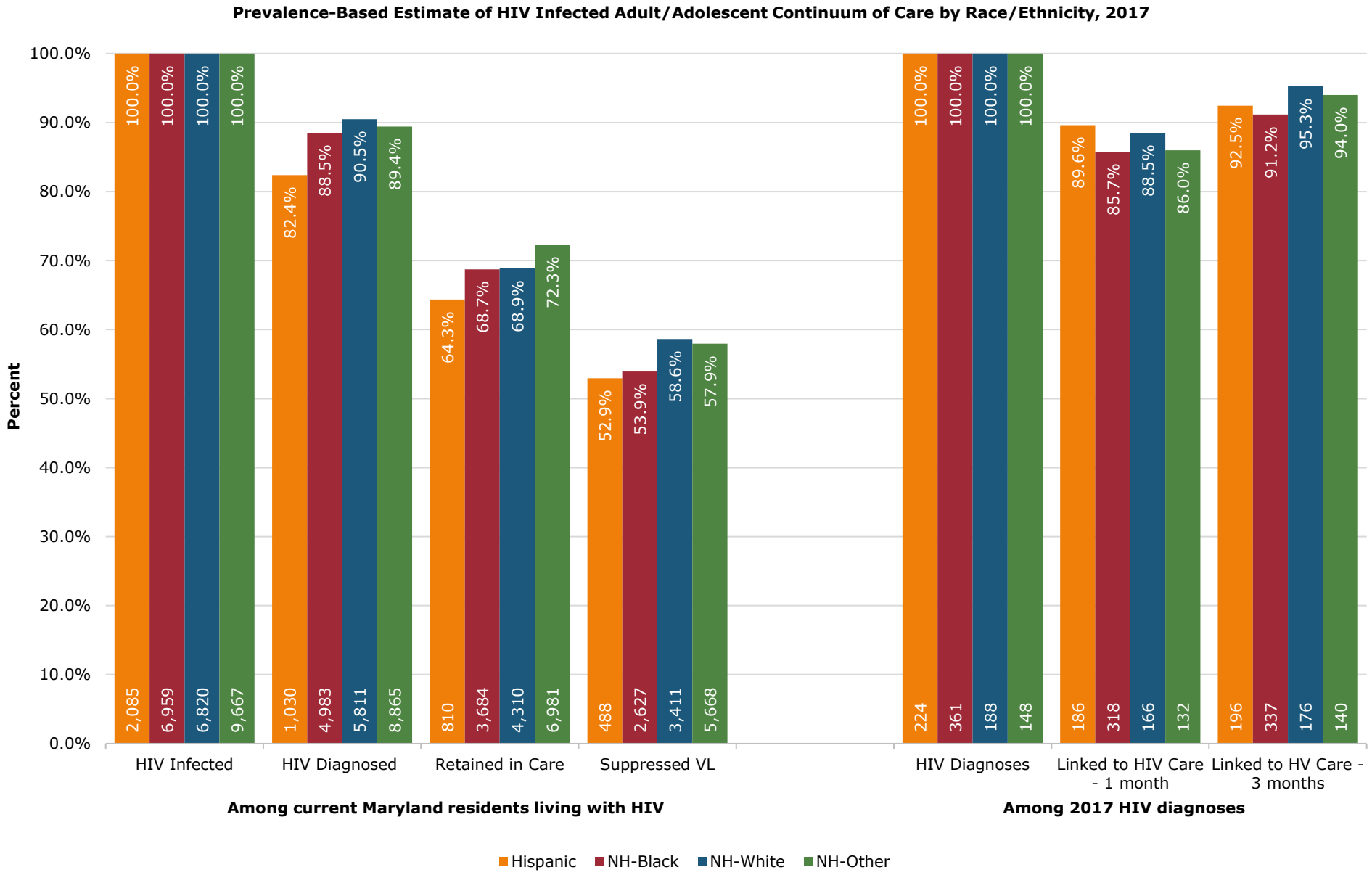


Figure 7C – Prevalence-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Maryland Residents, by Age on December 31, 2017, Reported through June 30, 2018

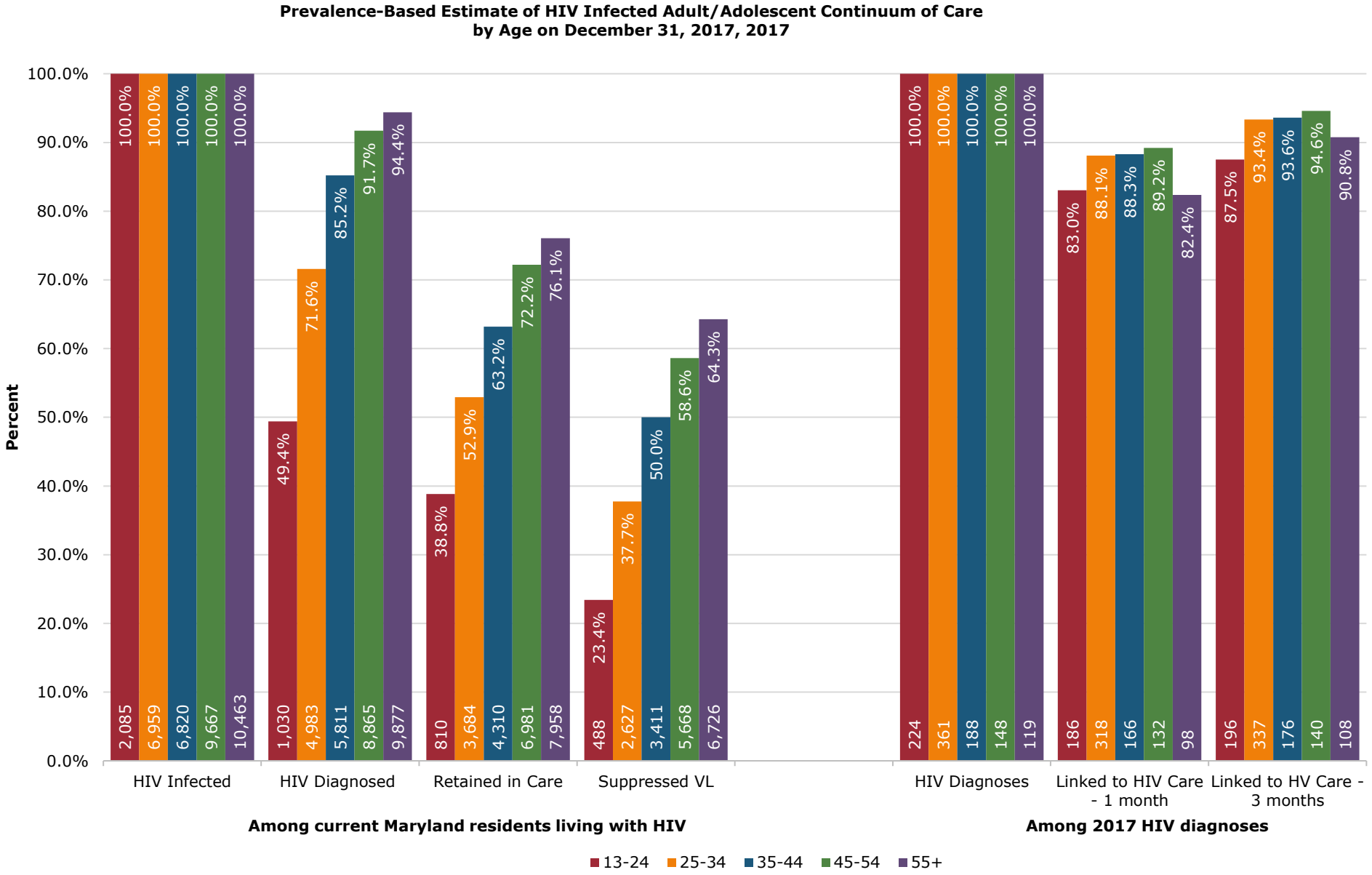
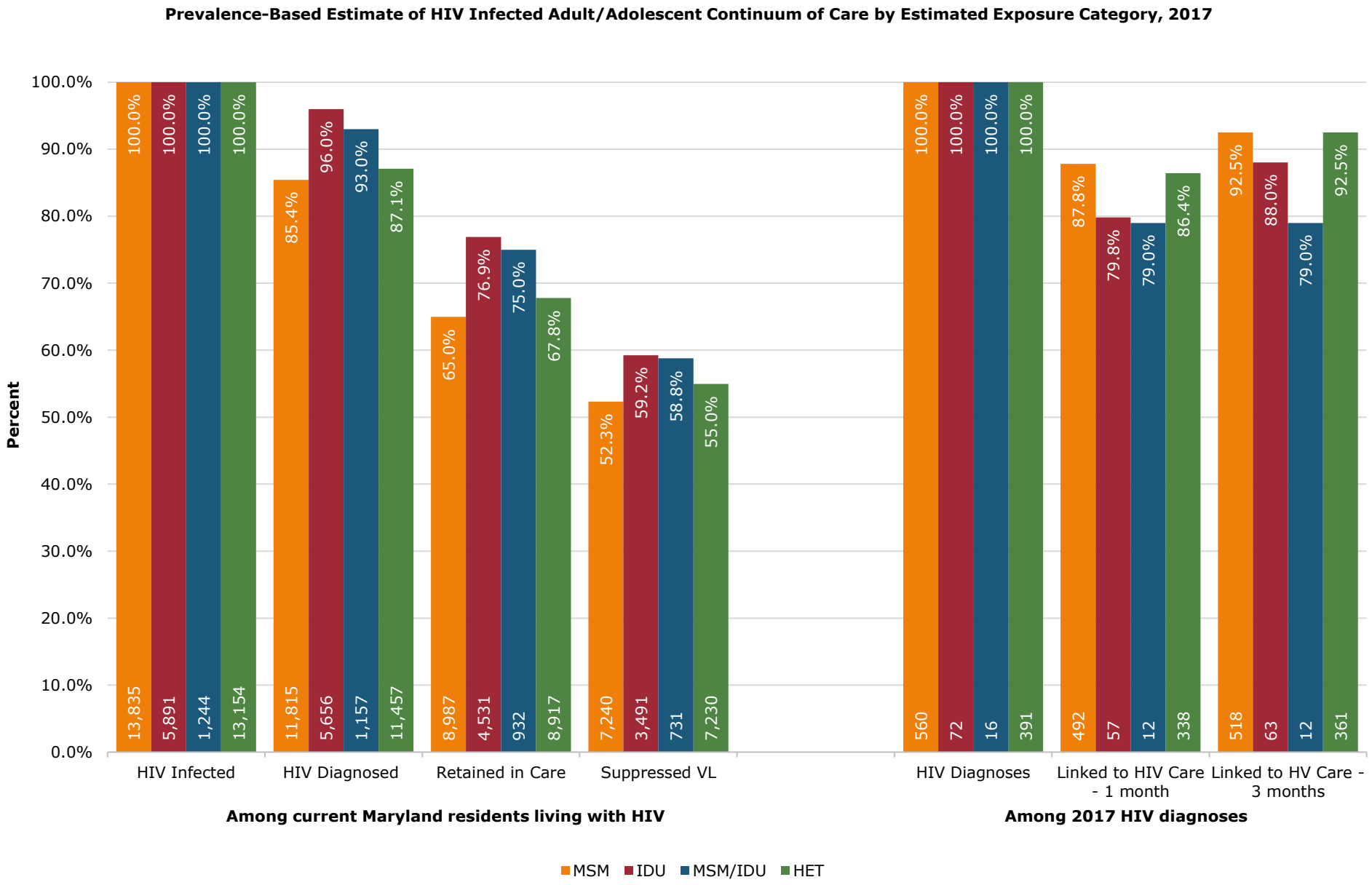


Figure 7D – Prevalence-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Maryland Residents, by Estimated Exposure Category Reported through June 30, 2018

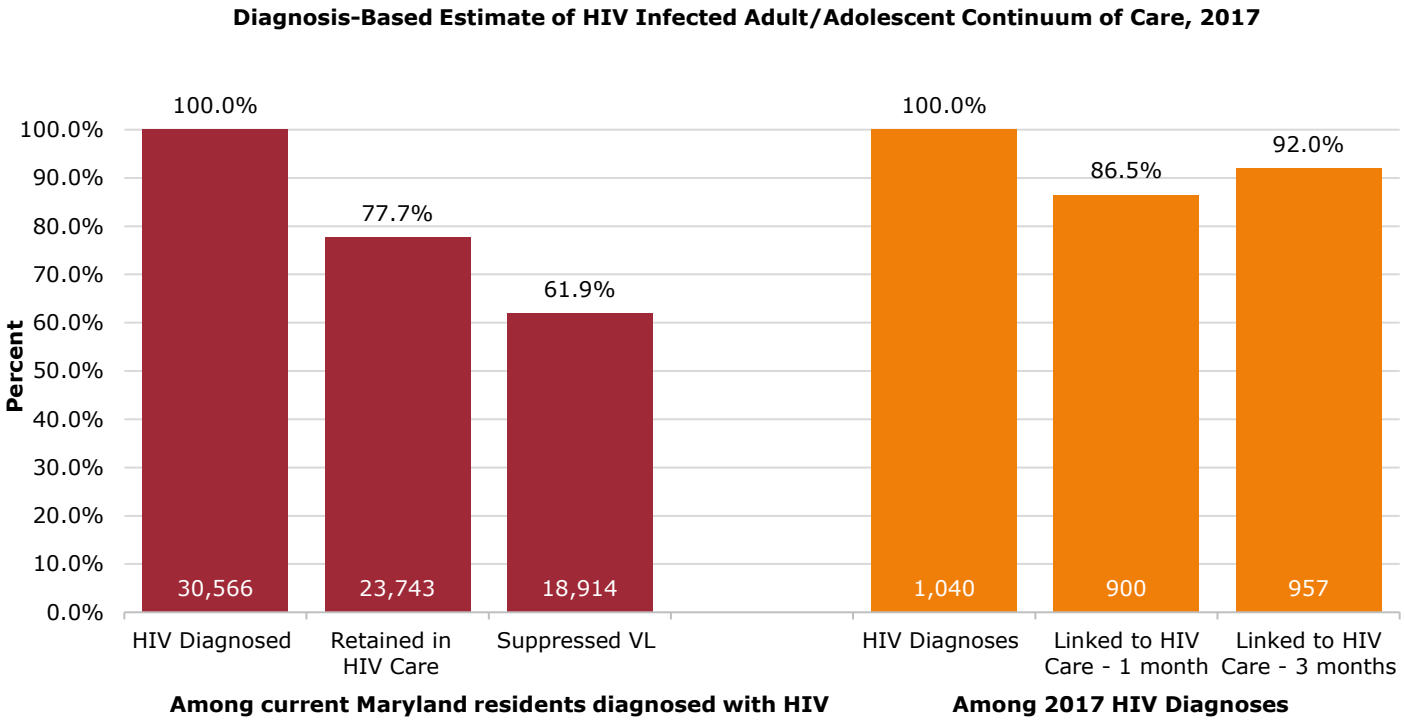


Demographic	Continuum of Care Stage													
	Adult/Adolescent Living Cases								Adult/Adolescent New Diagnoses					
	HIV Infected		HIV Diagnosed		Retained in Care		Suppressed VL		HIV Diagnosed		Linked to HIV Care – 1 Month		Linked to HIV Care – 3 Months	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sex at Birth														
Male	23,035	100.0%	20,179	87.6%	15,407	66.9%	12,282	53.3%	752	100.0%	653	86.8%	691	91.9%
Female	11,528	100.0%	10,387	90.1%	8,336	72.3%	6,638	57.6%	288	100.0%	247	85.8%	266	92.4%
Age on December 31,2017														
13-24	2,085	100.0%	1,030	49.4%	810	38.8%	488	23.4%	224	100.0%	186	83.0%	196	87.5%
25-34	6,959	100.0%	4,983	71.6%	3,684	52.9%	2,627	37.7%	361	100.0%	318	88.1%	337	93.4%
35-44	6,820	100.0%	5,811	85.2%	4,310	63.2%	3,411	50.0%	188	100.0%	166	88.3%	176	93.6%
45-54	9,667	100.0%	8,865	91.7%	6,981	72.2%	5,668	58.6%	148	100.0%	132	89.2%	140	94.6%
55+	10,463	100.0%	9,877	94.4%	7,958	76.1%	6,726	64.3%	119	100.0%	98	82.4%	108	90.8%
Race/ethnicity														
American Indian/Alaska Native	13	100.0%	13	100.0%	7	53.8%	7	53.8%	0	100.0%	--	--	--	--
Asian	229	100.0%	196	85.5%	147	64.1%	132	57.6%	14	100.0%	13	92.9%	13	77.8%
Black/African American	25,631	100.0%	22,683	88.5%	17,612	68.7%	13,824	53.9%	736	100.0%	631	85.7%	671	87.1%
Hispanic/Latino	2,403	100.0%	1,980	82.4%	1,546	64.3%	1,272	52.9%	106	100.0%	95	89.6%	98	88.0%
Native Hawaiian/Other Pacific Islander	2	100.0%	2	100.0%	1	50.0%	1	50.0%	0	100.0%	--	--	--	--
White	4,338	100.0%	3,926	90.5%	2,987	68.9%	2,543	58.6%	148	100.0%	131	88.5%	141	80.3%
Multiple races	1,967	100.0%	1,766	89.8%	1,443	73.4%	1,141	58.0%	36	100.0%	30	83.3%	34	93.8%
Transmission category														
Male-to-male sexual contact (MSM)	13,835	100.0%	11,815	85.4%	8,987	65.0%	7,240	52.3%	560	100.0%	492	87.8%	518	92.5%
Injection drug use (IDU)	5,891	100.0%	5,656	96.0%	4,531	76.9%	3,491	59.2%	72	100.0%	57	79.8%	63	88.0%
Male	3,467	100.0%	3,335	96.2%	2,591	74.7%	2,008	57.9%	42	100.0%	36	87.7%	38	92.3%
Female	2,425	100.0%	2,321	95.7%	1,940	80.0%	1,483	61.1%	30	100.0%	21	69.1%	25	82.2%
MSM/IDU	1,244	100.0%	1,157	93.0%	932	75.0%	731	58.8%	16	100.0%	12	79.0%	12	79.0%
Heterosexual contact (HET)	13,154	100.0%	11,457	87.1%	8,917	67.8%	7,230	55.0%	391	100.0%	338	86.4%	361	92.5%
Male	4,319	100.0%	3,658	84.7%	2,737	63.4%	2,192	50.8%	134	100.0%	113	84.0%	121	90.6%
Female	8,823	100.0%	7,799	88.4%	6,180	70.0%	5,038	57.1%	257	100.0%	225	87.7%	240	93.5%
Total	34,577	100.0%	30,566	88.4%	23,743	68.7%	18,920	54.7%	1,040	100.0%	900	86.5%	957	92.0%

Note. Other exposure category and perinatal transmission not shown. Multiple imputation was used to estimate and adjust for missing transmission category.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Maryland Residents, Reported through June 30, 2018

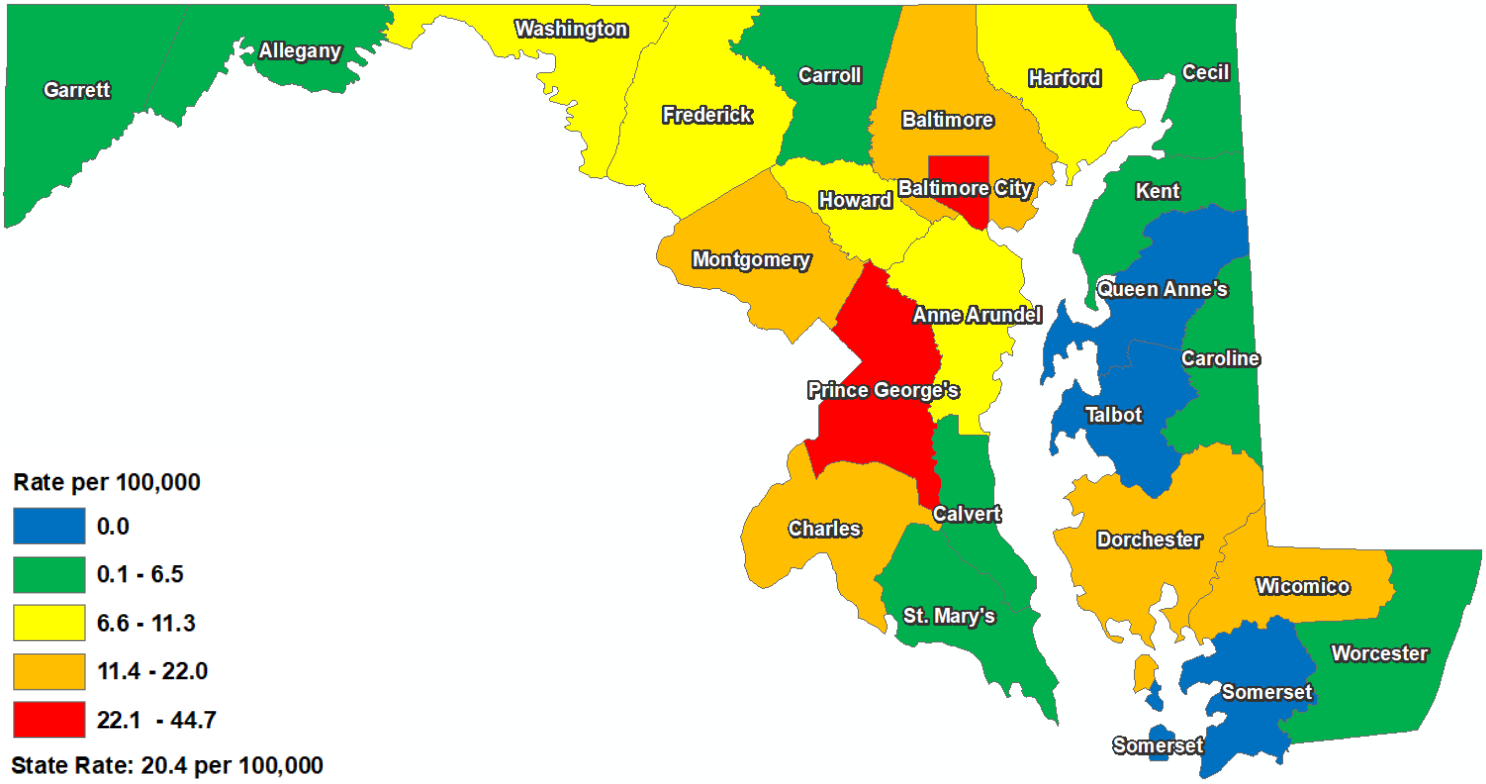
The diagnosis-based Maryland Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Maryland residents to describe the number and percentage of persons living with HIV in Maryland on December 31,2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Diagnosed	30,566	100.0%	New HIV Diagnoses	1,040	100.0%
Retained in HIV Care	23,743	77.7%	Linked to HIV Care – 1 Month	900	86.5%
Suppressed VL	18,914	61.9%	Linked to HIV Care – 3 Months	957	92.0%

Section IV – Adult/Adolescent Cases by Jurisdiction

Maryland Adult/Adolescent Reported HIV Diagnoses, Rate by Jurisdiction, 2017



- The rate of new HIV diagnoses among adults/adolescents in Maryland is **20.4 per 100,000.** Jurisdictions with the highest rate of new HIV diagnoses among adults/adolescents in Maryland include:
  - Baltimore City: **44.7 per 100,000**
  - Prince George's County: **41.9 per 100,000**
  - Dorchester County: **22.0 per 100,000**
  - Montgomery County: **18.6 per 100,000**
- The rate of new AIDS diagnoses among adults/adolescents in Maryland is **11.4 per 100,000.** Jurisdictions with the highest rate of new AIDS diagnoses among adults/adolescents in Maryland include:
  - Baltimore City: **33.8 per 100,000**
  - Prince George's County: **24.1 per 100,000**
  - Charles County: **11.3 per 100,000**
  - Baltimore County: **8.5 per 100,000**

Table 1 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Allegany	62,775	4	0.4%	6.4	***	***	***	***	***
Anne Arundel	480,992	42	4.0%	8.7	85.7%	90.5%	26.2%	83.3%	332
Baltimore City	517,321	231	22.2%	44.7	85.7%	91.8%	20.8%	88.3%	415
Baltimore	703,196	112	10.8%	15.9	89.3%	93.8%	23.2%	92.9%	362
Calvert	76,935	5	0.5%	6.5	80.0%	100.0%	***	100.0%	32
Caroline	27,612	1	0.1%	3.6	***	***	***	***	***
Carroll	142,850	8	0.8%	5.6	87.5%	100.0%	***	100.0%	391
Cecil	86,423	5	0.5%	5.8	100.0%	100.0%	***	***	***
Charles	132,657	24	2.3%	18.1	95.8%	95.8%	37.5%	95.8%	284
Dorchester	27,281	6	0.6%	22.0	83.3%	100.0%	***	100.0%	399
Frederick	211,010	16	1.5%	7.6	100.0%	100.0%	***	87.5%	459
Garrett	25,457	1	0.1%	3.9	***	***	***	***	***
Harford	212,766	24	2.3%	11.3	87.5%	91.7%	50.0%	87.5%	228
Howard	266,287	20	1.9%	7.5	70.0%	85.0%	45.0%	85.0%	214
Kent	17,211	1	0.1%	5.8	***	***	***	***	***
Montgomery	882,259	164	15.8%	18.6	81.7%	88.4%	29.9%	92.1%	353
Prince George's	763,442	320	30.8%	41.9	89.1%	93.8%	31.6%	91.9%	330
Queen Anne's	42,415	0	0.0%	0.0	--	--	--	--	--
Saint Mary's	92,931	6	0.6%	6.5	83.3%	83.3%	0.0%	100.0%	354
Somerset	22,657	0	0.0%	0.0	--	--	--	--	--
Talbot	32,341	0	0.0%	0.0	--	--	--	--	--
Washington	127,071	10	1.0%	7.9	90.0%	100.0%	***	100.0%	493
Wicomico	86,680	16	1.5%	18.5	75.0%	81.3%	***	87.5%	436
Worcester	45,380	2	0.2%	4.4	***	***	***	***	***
Corrections	--	22	2.1%	--	81.8%	86.4%	31.8%	100.0%	401
Total	5,085,949	1,040	100.0%	20.4	86.5%	92.0%	27.5%	91.0%	363

*** Data withheld due to low population counts and/or case counts

Table 2 – Adult/Adolescent AIDS Diagnoses during 2017, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Allegany	62,775	0	0.0%	0.0	--	--
Anne Arundel	480,992	22	3.8%	4.6	5.8	50.0%
Baltimore City	517,321	175	30.1%	33.8	6.9	31.4%
Baltimore	703,196	60	10.3%	8.5	4.8	55.0%
Calvert	76,935	6	1.0%	7.8	2.9	83.3%
Caroline	27,612	1	0.2%	3.6	***	***
Carroll	142,850	2	0.3%	1.4	***	***
Cecil	86,423	2	0.3%	2.3	***	***
Charles	132,657	15	2.6%	11.3	3.1	60.0%
Dorchester	27,281	2	0.3%	7.3	***	***
Frederick	211,010	7	1.2%	3.3	6.8	28.6%
Garrett	25,457	0	0.0%	0.0	--	--
Harford	212,766	12	2.1%	5.6	0.2	91.7%
Howard	266,287	15	2.6%	5.6	2.7	80.0%
Kent	17,211	0	0.0%	0.0	--	--
Montgomery	882,259	59	10.1%	6.7	2.6	74.6%
Prince George's	763,442	184	31.6%	24.1	4.1	56.0%
Queen Anne's	42,415	1	0.2%	2.4	***	***
Saint Mary's	92,931	3	0.5%	3.2	***	***
Somerset	22,657	1	0.2%	4.4	***	***
Talbot	32,341	1	0.2%	3.1	***	***
Washington	127,071	1	0.2%	0.8	***	***
Wicomico	86,680	4	0.7%	4.6	***	***
Worcester	45,380	0	0.0%	0.0	--	--
Corrections	--	9	1.5%	--	1.3	77.8%
Total	5,085,949	582	100.0%	11.4	4.9	51.7%

*** Data withheld due to low population counts and/or case counts

Table 3 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at Diagnosis	Population Age 13+	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Allegany	62,775	39	0.3%	62.1	32	0.2%	51.0	71	0.2%	113.1	884
Anne Arundel	480,992	568	3.7%	118.1	666	3.8%	138.5	1,234	3.8%	256.6	389
Baltimore City	517,321	5,585	36.4%	1,079.6	6,875	39.2%	1,329.0	12,460	37.9%	2,408.6	41
Baltimore	703,196	1,454	9.5%	206.8	1,611	9.2%	229.1	3,065	9.3%	435.9	229
Calvert	76,935	53	0.3%	68.9	61	0.3%	79.3	114	0.3%	148.2	674
Caroline	27,612	31	0.2%	112.3	35	0.2%	126.8	66	0.2%	239.0	418
Carroll	142,850	65	0.4%	45.5	76	0.4%	53.2	141	0.4%	98.7	1,013
Cecil	86,423	50	0.3%	57.9	64	0.4%	74.1	114	0.3%	131.9	758
Charles	132,657	243	1.6%	183.2	206	1.2%	155.3	449	1.4%	338.5	295
Dorchester	27,281	49	0.3%	179.6	84	0.5%	307.9	133	0.4%	487.5	205
Frederick	211,010	184	1.2%	87.2	158	0.9%	74.9	342	1.0%	162.1	616
Garrett	25,457	6	0.0%	23.6	4	0.0%	15.7	10	0.0%	39.3	2,545
Harford	212,766	201	1.3%	94.5	258	1.5%	121.3	459	1.4%	215.7	463
Howard	266,287	299	2.0%	112.3	292	1.7%	109.7	591	1.8%	221.9	450
Kent	17,211	16	0.1%	93.0	20	0.1%	116.2	36	0.1%	209.2	478
Montgomery	882,259	1,896	12.4%	214.9	2,035	11.6%	230.7	3,931	12.0%	445.6	224
Prince George's	763,442	3,620	23.6%	474.2	3,798	21.7%	497.5	7,418	22.6%	971.7	102
Queen Anne's	42,415	14	0.1%	33.0	38	0.2%	89.6	52	0.2%	122.6	815
Saint Mary's	92,931	69	0.5%	74.2	72	0.4%	77.5	141	0.4%	151.7	659
Somerset	22,657	25	0.2%	110.3	33	0.2%	145.6	58	0.2%	256.0	390
Talbot	32,341	26	0.2%	80.4	34	0.2%	105.1	60	0.2%	185.5	539
Washington	127,071	176	1.1%	138.5	127	0.7%	99.9	303	0.9%	238.4	419
Wicomico	86,680	120	0.8%	138.4	116	0.7%	133.8	236	0.7%	272.3	367
Worcester	45,380	34	0.2%	74.9	44	0.3%	97.0	78	0.2%	171.9	581
Corrections	--	501	3.3%	--	780	4.5%	--	1,281	3.9%	--	--
Total	5,085,949	15,324	100.0%	301.3	17,519	100.0%	344.5	32,843	100.0%	645.8	154

Table 4 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2018

Jurisdiction of Residence	Population Age 13+	Adult/Adolescent Total Living HIV Cases								% Change
		Residence at Diagnosis				Current Residence				
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Allegany	62,775	71	0.2%	113.1	884	98	0.3%	156.1	640	38.0%
Anne Arundel	480,992	1,234	3.8%	256.6	389	1,303	4.3%	270.9	369	5.6%
Baltimore City	517,321	12,460	37.9%	2,408.6	41	10,453	34.2%	2,020.6	49	-16.1%
Baltimore	703,196	3,065	9.3%	435.9	229	3,420	11.2%	486.4	205	11.6%
Calvert	76,935	114	0.3%	148.2	674	130	0.4%	169.0	591	14.0%
Caroline	27,612	66	0.2%	239.0	418	56	0.2%	202.8	493	-15.2%
Carroll	142,850	141	0.4%	98.7	1,013	140	0.5%	98.0	1,020	-0.7%
Cecil	86,423	114	0.3%	131.9	758	145	0.5%	167.8	596	27.2%
Charles	132,657	449	1.4%	338.5	295	518	1.7%	390.5	256	15.4%
Dorchester	27,281	133	0.4%	487.5	205	148	0.5%	542.5	184	11.3%
Frederick	211,010	342	1.0%	162.1	616	410	1.3%	194.3	514	19.9%
Garrett	25,457	10	0.0%	39.3	2,545	17	0.1%	66.8	1,497	70.0%
Harford	212,766	459	1.4%	215.7	463	488	1.6%	229.4	435	6.3%
Howard	266,287	591	1.8%	221.9	450	642	2.1%	241.1	414	8.6%
Kent	17,211	36	0.1%	209.2	478	33	0.1%	191.7	521	-8.3%
Montgomery	882,259	3,931	12.0%	445.6	224	3,253	10.6%	368.7	271	-17.2%
Prince George's	763,442	7,418	22.6%	971.7	102	7,361	24.1%	964.2	103	-0.8%
Queen Anne's	42,415	52	0.2%	122.6	815	48	0.2%	113.2	883	-7.7%
Saint Mary's	92,931	141	0.4%	151.7	659	169	0.6%	181.9	549	19.9%
Somerset	22,657	58	0.2%	256.0	390	65	0.2%	286.9	348	12.1%
Talbot	32,341	60	0.2%	185.5	539	70	0.2%	216.4	462	16.7%
Washington	127,071	303	0.9%	238.4	419	324	1.1%	255.0	392	6.9%
Wicomico	86,680	236	0.7%	272.3	367	252	0.8%	290.7	343	6.8%
Worcester	45,380	78	0.2%	171.9	581	93	0.3%	204.9	487	19.2%
Corrections	--	1,281	3.9%	--	--	930	3.0%	--	--	--
Total	5,085,949	32,843	100.0%	645.8	154	30,566	100.0%	601.0	166	-6.9%

Table 5 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	98	88	89.8%	658	5.7%	12.5%	9.1%	72.7%
Anne Arundel	1,303	914	70.1%	606	10.6%	9.1%	15.9%	64.4%
Baltimore City	10,453	7,372	70.5%	566	11.5%	13.8%	16.8%	58.0%
Baltimore	3,420	2,407	70.4%	609	9.1%	11.9%	14.9%	64.1%
Calvert	130	105	80.8%	661	7.6%	12.4%	18.1%	61.9%
Caroline	56	40	71.4%	671	2.5%	17.5%	10.0%	70.0%
Carroll	140	85	60.7%	571	9.4%	15.3%	14.1%	61.2%
Cecil	145	90	62.1%	612	6.7%	10.0%	15.6%	67.8%
Charles	518	413	79.7%	604	10.4%	11.6%	14.8%	63.2%
Dorchester	148	119	80.4%	580	5.9%	13.4%	21.8%	58.8%
Frederick	410	300	73.2%	608	8.7%	9.7%	16.0%	65.7%
Garrett	17	14	82.4%	739	0.0%	7.1%	21.4%	71.4%
Harford	488	344	70.5%	560	11.9%	14.2%	16.0%	57.8%
Howard	642	466	72.6%	573	10.1%	13.1%	15.7%	61.2%
Kent	33	28	84.8%	623	3.6%	17.9%	21.4%	57.1%
Montgomery	3,253	2,345	72.1%	585	8.0%	11.6%	18.8%	61.6%
Prince George's	7,361	5,445	74.0%	581	9.1%	12.6%	17.8%	60.6%
Queen Anne's	48	38	79.2%	609	7.9%	15.8%	13.2%	63.2%
Saint Mary's	169	130	76.9%	573	9.2%	16.9%	16.2%	57.7%
Somerset	65	50	76.9%	610	10.0%	14.0%	12.0%	64.0%
Talbot	70	56	80.0%	533	16.1%	12.5%	17.9%	53.6%
Washington	324	242	74.7%	675	7.0%	9.5%	13.2%	70.2%
Wicomico	252	188	74.6%	524	12.8%	12.8%	20.2%	54.3%
Worcester	93	81	87.1%	681	8.6%	7.4%	14.8%	69.1%
Corrections	930	668	71.8%	528	14.2%	15.7%	17.2%	52.8%
Total	30,566	22,028	72.1%	582	10.0%	12.7%	16.9%	60.4%

Table 6 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Allegany	98	79	80.6%	88.6%	1,056
Anne Arundel	1,303	928	71.2%	84.6%	8,460
Baltimore City	10,453	7,765	74.3%	81.7%	12,391
Baltimore	3,420	2,517	73.6%	85.3%	9,945
Calvert	130	103	79.2%	90.3%	4,805
Caroline	56	41	73.2%	92.7%	21,300
Carroll	140	91	65.0%	85.7%	28,480
Cecil	145	89	61.4%	87.6%	14,600
Charles	518	419	80.9%	83.5%	10,297
Dorchester	148	118	79.7%	90.7%	1,010
Frederick	410	306	74.6%	87.3%	8,001
Garrett	17	14	82.4%	100.0%	--
Harford	488	345	70.7%	87.0%	10,910
Howard	642	474	73.8%	84.4%	5,951
Kent	33	29	87.9%	89.7%	4,350
Montgomery	3,253	2,359	72.5%	88.1%	7,895
Prince George's	7,361	5,493	74.6%	84.5%	14,157
Queen Anne's	48	39	81.3%	92.3%	35,130
Saint Mary's	169	128	75.7%	82.0%	4,461
Somerset	65	48	73.8%	85.4%	11,400
Talbot	70	58	82.9%	91.4%	1,400
Washington	324	242	74.7%	83.5%	2,043
Wicomico	252	197	78.2%	81.7%	19,405
Worcester	93	82	88.2%	90.2%	21,490
Corrections	930	606	65.2%	71.3%	15,285
Total	30,566	22,570	73.8%	83.8%	11,600

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2018

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.	%	%	Median Count
<5 (Pediatric)	366,385	2	0.2%	0.5	***	***	***	***	***
5-12 (Pediatric)	599,843	1	0.1%	0.2	***	***	***	***	***
13-19	535,544	57	5.5%	10.6	86.0%	93.0%	14.0%	91.2%	395
20-29	807,873	364	34.9%	45.1	85.2%	89.6%	17.0%	90.4%	393
30-39	819,147	269	25.8%	32.8	90.0%	95.5%	29.0%	91.4%	373
40-49	776,289	151	14.5%	19.5	86.8%	92.1%	39.1%	93.4%	282
50-59	867,798	126	12.1%	14.5	87.3%	94.4%	38.9%	88.9%	279
60+	1,279,298	73	7.0%	5.7	79.5%	86.3%	41.1%	90.4%	241
Total	6,052,177	1,043	100.0%	17.2	86.5%	92.0%	27.4%	91.0%	363

*** Data withheld due to low population counts and/or case counts

Table 8 – HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Population	Total Living HIV Cases				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	366,385	9	0.0%	11.1%	2.5	40,709
5-12	599,843	62	0.2%	16.1%	16.9	9,674
13-19	535,544	194	0.6%	22.7%	52.9	2,760
20-29	807,873	3,060	10.0%	27.3%	835.2	264
30-39	819,147	5,636	18.4%	40.5%	1,538.3	145
40-49	776,289	6,838	22.3%	56.7%	1,866.3	113
50-59	867,798	9,364	30.6%	64.5%	2,555.8	92
60+	1,279,298	5,474	17.9%	66.2%	1,494.1	233
Total	6,052,177	30,637	100.0%	54.6%	326.4	197

Table 9 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	194	136	70.1%	596	5.1%	7.4%	20.6%	66.9%
20-29	3,060	2,103	68.7%	582	9.6%	11.5%	17.0%	61.9%
30-39	5,636	3,903	69.3%	590	10.6%	11.3%	16.6%	61.5%
40-49	6,838	4,901	71.7%	578	11.0%	12.6%	17.1%	59.4%
50-59	9,364	6,969	74.4%	585	10.0%	13.3%	16.5%	60.2%
60+	5,474	4,016	73.4%	576	8.6%	14.1%	17.5%	59.8%
Total	30,566	22,028	72.1%	582	10.0%	12.7%	16.9%	60.4%

Table 10 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
13-19	194	149	76.8%	68.5%	13,587
20-29	3,060	2,179	71.2%	68.5%	16,153
30-39	5,636	3,988	70.8%	79.4%	11,654
40-49	6,838	4,997	73.1%	83.9%	11,780
50-59	9,364	7,136	76.2%	87.1%	10,248
60+	5,474	4,121	75.3%	91.1%	6,134
Total	30,566	22,570	73.8%	83.8%	11,600

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2017, 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, 2018

Demographic Characteristics	Population Age 13+*	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Sex at Birth									
Male	2,441,672	752	72.3%	30.8	86.8%	91.9%	26.7%	91.4%	367
Female	2,644,277	288	27.7%	10.9	85.8%	92.4%	29.5%	89.9%	347
Gender									
Male	--	738	71.0%	--	87.1%	91.9%	27.2%	91.6%	365
Female	--	288	27.7%	--	85.8%	92.4%	29.5%	89.9%	347
Transgender Female	--	14	1.3%	--	71.4%	92.9%	0.0%	78.6%	476
Transgender Male	--	0	0.0%	--	--	--	--	--	--
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	457,055	106	10.2%	23.2	89.6%	92.5%	34.0%	90.6%	339
Non-Hispanic	4,628,894	934	89.8%	20.2	86.2%	92.0%	26.8%	91.0%	365
American Indian/Alaska Native, only	12,552	0	0.0%	0.0	--	--	--	--	--
Asian, only	339,488	14	1.3%	4.1	92.9%	92.9%	50.0%	92.9%	195
Black, only	1,502,397	736	70.8%	49.0	85.7%	91.2%	25.3%	90.5%	369
Native Hawaiian/Other Pacific Islander, only	2,533	0	0.0%	0.0	--	--	--	--	--
White, only	2,679,495	148	14.2%	5.5	88.5%	95.3%	30.4%	91.9%	365
Multiracial/Other	92,429	36	3.5%	38.9	83.3%	94.4%	33.3%	97.2%	284
Total	5,085,949	1,040	100.0%	20.4	86.5%	92.0%	27.5%	91.0%	363
Country of Birth									
United States	4,154,170	832	80.0%	20.0	85.9%	91.2%	26.8%	90.4%	363
Foreign-Born	834,945	149	14.3%	17.8	87.2%	94.6%	34.2%	93.3%	338
Africa	--	99	9.5%	--	87.9%	96.0%	34.3%	93.9%	310
Asia	--	10	1.0%	--	90.0%	100.0%	***	90.0%	591
Caribbean	--	11	1.1%	--	72.7%	81.8%	***	90.9%	473
Central America	--	25	2.4%	--	88.0%	92.0%	36.0%	92.0%	392
Other	--	4	0.4%	--	***	***	***	***	***
Unknown	--	59	5.7%	--	93.2%	96.6%	20.3%	93.2%	387
Total	4,989,115	1,040	100.0%	20.8	86.5%	92.0%	27.5%	91.0%	363

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

*** Data withheld due to low population and/or case counts

Table 12 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Population Age 13+	Adult/Adolescent Total Living HIV Cases				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Sex at Birth						
Male	2,441,672	20,179	66.0%	53.9%	826.4	121
Female	2,644,277	10,387	34.0%	56.1%	392.8	254
Gender						
Male	--	19,905	65.1%	54.0%	--	--
Female	--	10,375	33.9%	56.1%	--	--
Transgender Female	--	273	0.9%	44.7%	--	--
Transgender Male	--	12	0.0%	41.7%	--	--
Another Gender Identity	--	1	0.0%	100.0%	--	--
Race/Ethnicity						
Hispanic	457,055	1,980	6.5%	54.1%	433.2	230
Non-Hispanic	4,628,894	28,586	93.5%	54.7%	617.6	161
American Indian/Alaska Native, only	12,552	13	0.0%	30.8%	103.6	965
Asian, only	339,488	196	0.6%	39.3%	57.7	1,732
Black, only	1,502,397	22,683	74.2%	55.1%	1,509.8	66
Native Hawaiian/Other Pacific Islander, only	2,533	2	0.0%	50.0%	79.0	1,266
White, only	2,679,495	3,926	12.8%	50.6%	146.5	682
Multiracial/Other	92,429	1,766	5.8%	59.9%	1,910.7	52
Total	5,085,949	30,566	100.0%	54.7%	601.0	166
Country of Birth						
United States	4,154,170	26,757	87.5%	55.4%	644.1	155
Foreign-Born	834,945	2,914	9.5%	53.6%	349.0	286
Africa	--	1,827	6.0%	53.0%	--	--
Asia	--	178	0.6%	49.4%	--	--
Caribbean	--	219	0.7%	49.3%	--	--
Central America	--	471	1.5%	60.9%	--	--
Other	--	219	0.7%	50.2%	--	--
Unknown	--	895	2.9%	34.4%	--	--
Total	4,989,115	30,566	100.0%	54.7%	612.7	163

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

Table 13 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Male	20,179	14,338	71.1%	564	10.1%	13.8%	17.5%	58.7%
Female	10,387	7,690	74.0%	623	9.9%	10.8%	15.8%	63.4%
Gender								
Male	19,905	***	***	***	***	***	***	***
Female	10,375	***	***	***	***	***	***	***
Transgender Female	273	***	***	***	***	***	***	***
Transgender Male	12	***	***	***	***	***	***	***
Another Gender Identity	1	***	***	***	***	***	***	***
Race/Ethnicity								
Hispanic	1,980	1,466	74.0%	564	9.7%	13.1%	19.2%	58.0%
Non-Hispanic	28,586	20,562	71.9%	583	10.0%	12.7%	16.7%	60.5%
American Indian/Alaska Native, only	13	***	***	***	***	***	***	***
Asian, only	196	139	70.9%	561	7.9%	15.8%	18.0%	58.3%
Black, only	22,683	16,303	71.9%	577	10.3%	13.0%	17.1%	59.6%
Native Hawaiian/Other Pacific Islander, only	2	***	***	***	***	***	***	***
White, only	3,926	2,760	70.3%	628	7.9%	11.2%	14.8%	66.1%
Multiracial/Other	1,766	1,352	76.6%	584	11.4%	12.1%	16.1%	60.5%
Country of Birth								
United States	26,757	19,333	72.3%	584	10.3%	12.7%	16.5%	60.4%
Foreign-Born	2,914	2,130	73.1%	564	8.0%	12.4%	20.4%	59.2%
Africa	1,827	1,321	72.3%	561	8.3%	12.7%	20.7%	58.4%
Asia	178	131	73.6%	591	4.6%	13.7%	18.3%	63.4%
Caribbean	219	163	74.4%	628	7.4%	11.0%	16.6%	65.0%
Central America	471	351	74.5%	538	10.3%	12.8%	22.2%	54.7%
Other	219	164	74.9%	607	4.9%	9.1%	20.1%	65.9%
Unknown	895	565	63.1%	582	6.9%	14.9%	15.9%	62.3%
Total	30,566	22,028	72.1%	582	10.0%	12.7%	16.9%	60.4%

*** Data withheld due to low population and/or case counts

Table 14 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Sex at Birth					
Male	20,179	14,588	72.3%	84.2%	13,286
Female	10,387	7,982	76.8%	83.2%	9,574
Gender					
Male	19,905	***	***	***	***
Female	10,375	***	***	***	***
Transgender Female	273	***	***	***	***
Transgender Male	12	***	***	***	***
Another Gender Identity	1	***	***	***	***
Race/Ethnicity					
Hispanic	1,980	1,477	74.6%	86.1%	11,900
Non-Hispanic	28,586	21,093	73.8%	83.7%	11,516
American Indian/Alaska Native, only	13	***	***	***	***
Asian, only	196	144	73.5%	91.7%	130,600
Black, only	22,683	16,736	73.8%	82.6%	10,900
Native Hawaiian/Other Pacific Islander, only	2	***	***	***	***
White, only	3,926	2,843	72.4%	89.4%	18,725
Multiracial/Other	1,766	1,362	77.1%	83.8%	11,790
Country of Birth					
United States	26,757	19,845	74.2%	83.3%	11,600
Foreign-Born	2,914	2,150	73.8%	88.8%	11,903
Africa	1,827	1,341	73.4%	88.8%	9,905
Asia	178	132	74.2%	90.9%	58,983
Caribbean	219	166	75.8%	88.0%	5,865
Central America	471	349	74.1%	86.5%	17,000
Other	219	162	74.0%	92.6%	5,305
Unknown	895	575	64.2%	84.7%	10,498
Total	30,566	22,570	73.8%	83.8%	11,600

*** Data withheld due to low population and/or case counts

Section VII – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018

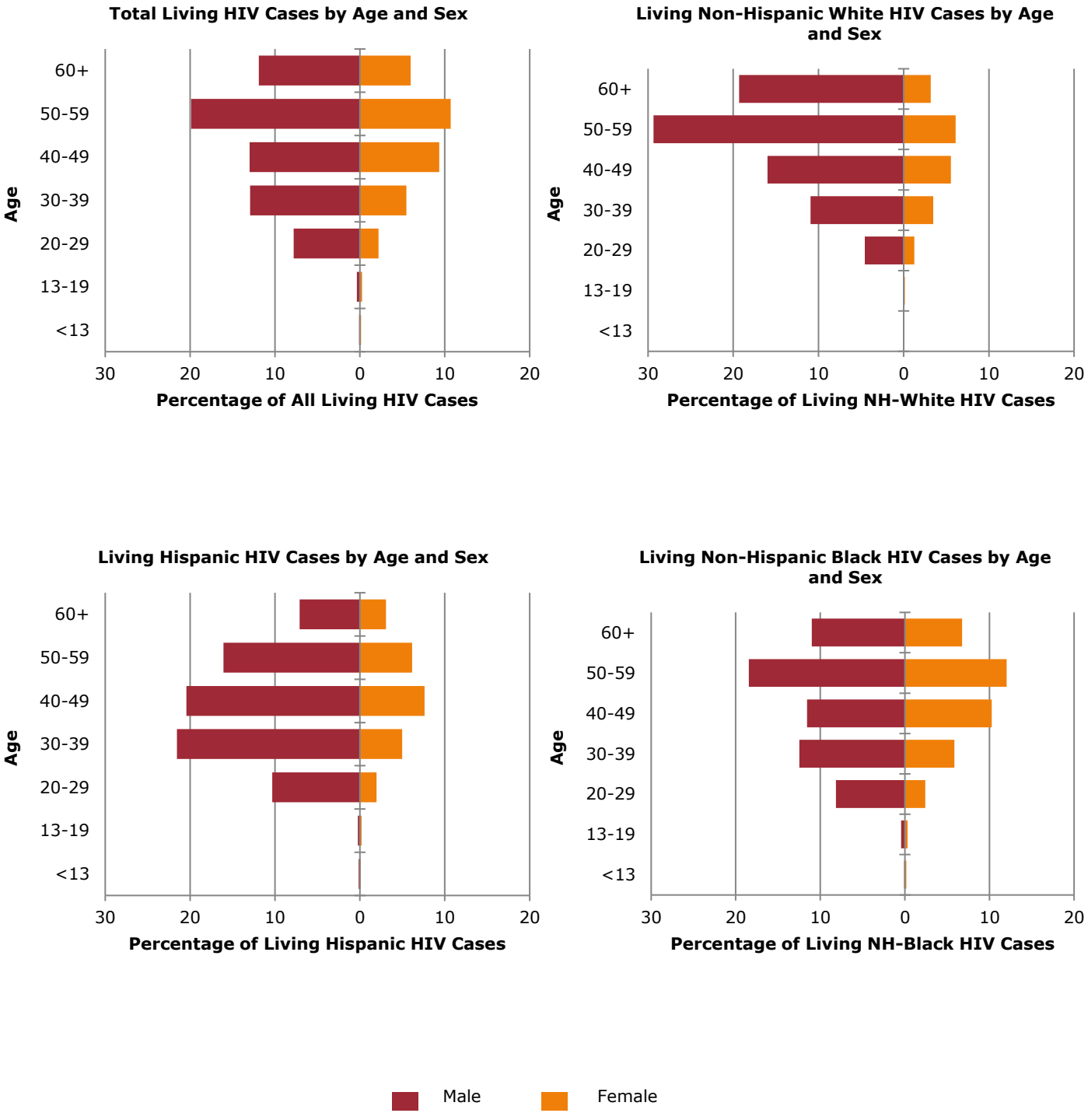


Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018

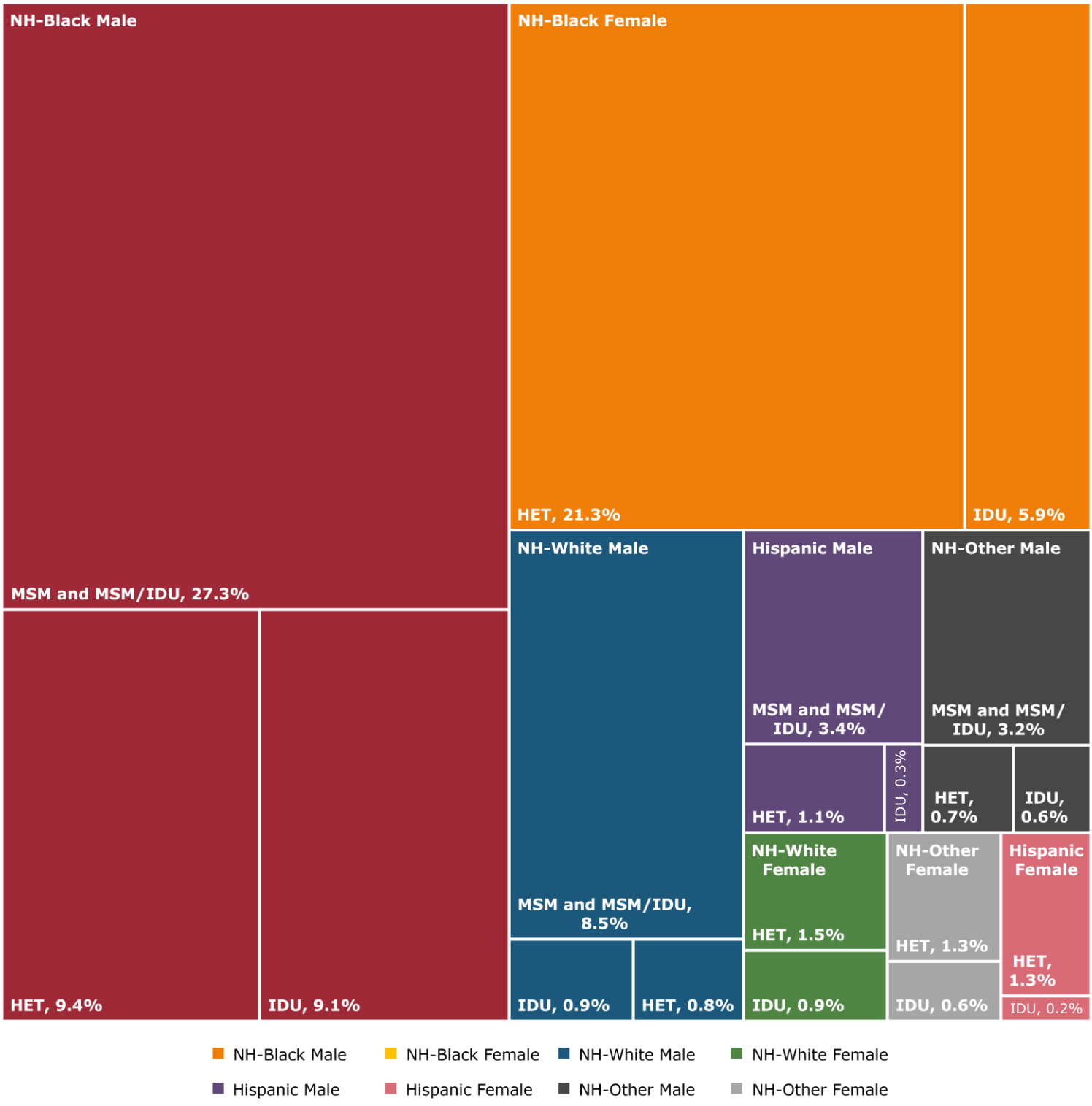
Total Living Male HIV Cases						
Age on December 31, 2017		**Race/Ethnicity**				**Total Males by Age Group**
		Hispanic	**Non-Hispanic Black, only**	**Non-Hispanic White, only**	**Non-Hispanic Other Race**	
<13 (Pediatric)	Population	80,304	149,924	203,863	58,391	492,482
	Cases	3	19	3	1	26
	Rate	3.7	12.7	1.5	1.7	5.3
	Ratio (1 in X)	26,767	7,890	67,954	58,391	18,941
13-19	Population	34,480	85,325	124,421	29,099	273,325
	Cases	5	99	2	8	114
	Rate	14.5	116.0	1.6	27.5	41.7
	Ratio (1 in X)	6,896	861	62,210	3,637	2,397
20-29	Population	48,808	130,848	190,418	38,105	408,179
	Cases	205	1,857	179	147	2,388
	Rate	420.0	1,419.2	94.0	385.8	585.0
	Ratio (1 in X)	238	70	1,063	259	170
30-39	Population	58,939	114,388	190,418	38,909	402,654
	Cases	428	2,835	430	266	3,959
	Rate	726.2	2,478.4	225.8	683.6	983.2
	Ratio (1 in X)	137	40	442	146	101
40-49	Population	47,052	110,214	182,170	35,572	375,008
	Cases	406	2,634	628	311	3,979
	Rate	862.9	2,389.9	344.7	874.3	1,061.0
	Ratio (1 in X)	115	41	290	114	94
50-59	Population	28,904	117,535	239,711	29,572	415,722
	Cases	319	4,197	1,155	420	6,091
	Rate	1,103.7	3,570.9	481.8	1,420.3	1,465.2
	Ratio (1 in X)	90	28	207	70	68
60+	Population	20,828	130,759	377,155	38,042	566,784
	Cases	141	2,505	759	243	3,648
	Rate	677.0	1,915.7	201.2	638.8	643.6
	Ratio (1 in X)	147	52	496	156	155
Total Males by Race/Ethnicity	Population	319,315	838,993	1,508,156	267,690	2,934,154
	Cases	1,507	14,146	3,156	1,396	20,205
	Rate	471.9	1,686.1	209.3	521.5	688.6
	Ratio (1 in X)	211	59	477	191	145

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018

Total Living Female HIV Cases						
Age on December 31, 2017		**Race/Ethnicity**				**Total Females by Age Group**
		Hispanic	**Non-Hispanic Black, only**	**Non-Hispanic White, only**	**Non-Hispanic Other Race**	
<13 (Pediatric)	Population	76,889	145,961	194,549	56,347	473,746
	Cases	2	37	3	3	45
	Rate	2.6	25.3	1.5	5.3	9.5
	Ratio (1 in X)	38,444	3,944	64,849	18,782	10,527
13-19	Population	32,009	83,866	117,859	28,485	262,219
	Cases	4	70	5	1	80
	Rate	12.5	83.5	4.2	3.5	30.5
	Ratio (1 in X)	8,002	1,198	23,571	28,485	3,277
20-29	Population	42,935	134,380	182,757	39,622	399,694
	Cases	39	548	49	36	672
	Rate	90.8	407.8	26.8	90.9	168.1
	Ratio (1 in X)	1,100	245	3,729	1,100	594
30-39	Population	49,034	132,355	189,845	45,259	416,493
	Cases	99	1,332	136	110	1,677
	Rate	201.9	1,006.4	71.6	243.0	402.6
	Ratio (1 in X)	495	99	1,395	411	248
40-49	Population	40,452	130,308	188,157	42,364	401,281
	Cases	151	2,334	218	156	2,859
	Rate	373.3	1,791.1	115.9	368.2	712.5
	Ratio (1 in X)	267	55	863	271	140
50-59	Population	27,453	141,548	248,188	34,887	452,076
	Cases	122	2,736	240	175	3,273
	Rate	444.4	1,932.9	96.7	501.6	724.0
	Ratio (1 in X)	225	51	1,034	199	138
60+	Population	26,161	190,871	448,396	47,086	712,514
	Cases	61	1,536	125	104	1,826
	Rate	233.2	804.7	27.9	220.9	256.3
	Ratio (1 in X)	428	124	3,587	452	390
Total Females by Race/Ethnicity	Population	294,933	959,289	1,569,751	294,050	3,118,023
	Cases	478	8,593	776	585	10,432
	Rate	162.1	895.8	49.4	198.9	334.6
	Ratio (1 in X)	617	111	2,022	502	298

Section VIII – HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017, Reported through June 30, 2018



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

Table 17 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Reported HIV Diagnoses						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
Male-to-male Sexual Contact (MSM)	560	53.8%	87.8%	92.5%	23.4%	91.7%	391
Injection Drug Use (IDU)	72	6.9%	79.8%	88.0%	32.7%	83.3%	303
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	16	1.5%	***	***	***	***	***
Heterosexual Contact (HET)	391	37.6%	86.4%	92.5%	33.0%	91.2%	324
Perinatal Transmission	2	0.2%	***	***	***	***	***
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	1,040	100.0%	86.5%	92.0%	27.5%	91.0%	363
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	560	74.4%	87.8%	92.5%	23.4%	91.7%	391
Injection Drug Use (IDU)	42	5.5%	87.7%	92.3%	28.9%	89.4%	346
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	16	2.1%	***	***	***	***	***
Heterosexual Contact (HET)	134	17.8%	84.0%	90.6%	41.3%	90.4%	254
Perinatal Transmission	1	0.1%	***	***	***	***	***
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	752	100.0%	86.8%	91.9%	26.7%	91.4%	367
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	30	10.6%	***	***	***	***	***
Heterosexual Contact (HET)	257	89.1%	87.7%	93.5%	28.6%	91.7%	353
Perinatal Transmission	1	0.3%	***	***	***	***	***
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	288	100.0%	85.8%	92.4%	29.5%	89.9%	347

Note. Data for 2017 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 Transgender Persons Supplement.

*** Data withheld due to low population and/or case counts

Table 18 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases		
	No.	% of Total	% Living with AIDS
Male-to-male Sexual Contact (MSM)	11,814	38.6%	46.1%
Injection Drug Use (IDU)	5,656	18.5%	70.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1,157	3.8%	68.1%
Heterosexual Contact (HET)	11,458	37.5%	54.2%
Perinatal Transmission	364	1.2%	59.9%
Other Exposures	46	0.2%	87.0%
No Estimated or Reported Exposure	72	0.2%	38.9%
Total	30,566	100.0%	54.7%
Male Estimated or Reported Exposure Category			
Male-to-male Sexual Contact (MSM)	11,814	58.5%	46.1%
Injection Drug Use (IDU)	3,335	16.5%	71.2%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1,157	5.7%	68.1%
Heterosexual Contact (HET)	3,658	18.1%	58.7%
Perinatal Transmission	154	0.8%	60.4%
Other Exposures	25	0.1%	84.0%
No Estimated or Reported Exposure	37	0.2%	37.8%
Total	20,179	100.0%	53.9%
Female Estimated or Reported Exposure Category			
Injection Drug Use (IDU)	2,321	22.3%	69.1%
Heterosexual Contact (HET)	7,800	75.1%	52.1%
Perinatal Transmission	210	2.0%	59.5%
Other Exposures	21	0.2%	90.5%
No Estimated or Reported Exposure	35	0.3%	40.0%
Total	10,387	100.0%	56.1%

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 Transgender Persons Supplement.

Table 19 – Adult/Adolescent Total Living HIV Cases by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017 and Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases					
	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)	990	50.0%	7,509	33.1%	2,418	61.6%
Injection Drug Use (IDU)	157	7.9%	4,580	20.2%	569	14.5%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	67	3.4%	814	3.6%	174	4.4%
Heterosexual Contact (HET)	748	37.8%	9,386	41.4%	722	18.4%
Perinatal Transmission	13	0.7%	315	1.4%	16	0.4%
Other Exposures	2	0.1%	18	0.1%	22	0.6%
No Estimated or Reported Exposure	3	0.2%	61	0.3%	5	0.1%
Total	1,980	100.0%	22,683	100.0%	3,926	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	990	65.8%	7,509	53.2%	2,418	76.7%
Injection Drug Use (IDU)	99	6.6%	2,773	19.6%	282	8.9%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	67	4.5%	814	5.8%	174	5.5%
Heterosexual Contact (HET)	338	22.5%	2,865	20.3%	253	8.0%
Perinatal Transmission	7	0.5%	130	0.9%	7	0.2%
Other Exposures	2	0.1%	4	0.0%	17	0.5%
No Estimated or Reported Exposure	1	0.1%	31	0.2%	2	0.1%
Total	1,504	100.0%	14,127	100.0%	3,153	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	58	12.1%	1,806	21.1%	288	37.2%
Heterosexual Contact (HET)	410	86.2%	6,521	76.2%	468	60.6%
Perinatal Transmission	6	1.3%	185	2.2%	9	1.2%
Other Exposures	0	0.0%	14	0.2%	5	0.6%
No Estimated or Reported Exposure	2	0.4%	30	0.4%	3	0.4%
Total	476	100.0%	8,556	100.0%	773	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 Transgender Persons Supplement.

Table 20 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male-to-male Sexual Contact (MSM)	11,814	8,344	70.6%	597	8.0%	12.0%	16.5%	63.5%
Injection Drug Use (IDU)	5,656	4,189	74.1%	539	13.8%	14.8%	17.1%	54.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1,157	878	75.9%	546	11.1%	15.7%	17.3%	55.9%
Heterosexual Contact (HET)	11,458	8,284	72.3%	592	9.6%	12.0%	17.2%	61.2%
Perinatal Transmission	364	254	69.8%	500	20.9%	13.4%	15.0%	50.8%
Other Exposures	46	33	71.7%	546	3.0%	30.3%	15.2%	51.5%
No Estimated or Reported Exposure	72	46	63.9%	537	19.6%	6.5%	19.6%	54.3%
Total	30,566	22,028	72.1%	582	10.0%	12.7%	16.9%	60.4%

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 21 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category, Reported through June 30, 2018

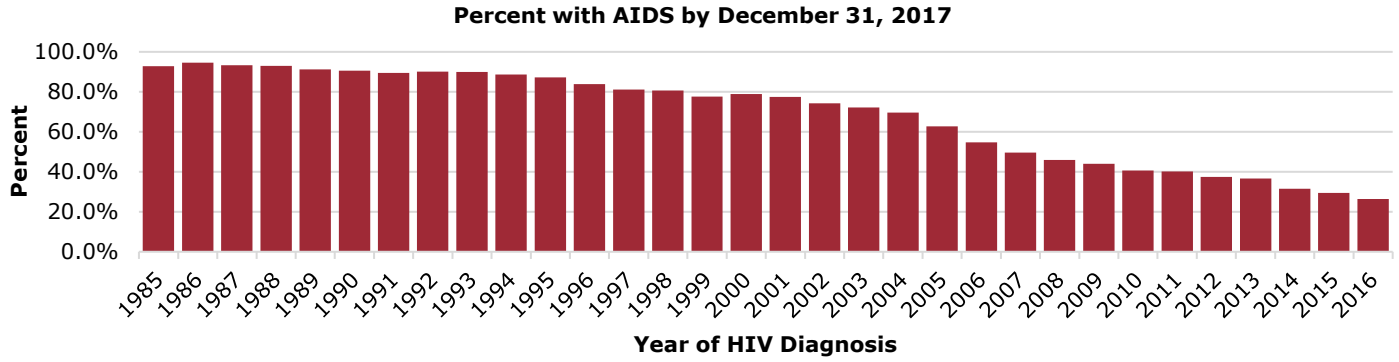
Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male-to-male Sexual Contact (MSM)	11,814	8,580	72.6%	84.4%	12,600
Injection Drug Use (IDU)	5,656	4,245	75.1%	82.2%	14,036
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1,157	878	75.9%	83.3%	11,240
Heterosexual Contact (HET)	11,458	8,513	74.3%	84.9%	9,484
Perinatal Transmission	364	272	74.7%	61.4%	10,297
Other Exposures	46	34	73.9%	94.1%	22,042
No Estimated or Reported Exposure	72	48	66.7%	62.5%	8,450
Total	30,566	22,570	73.8%	83.8%	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 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2016, Reported through June 30, 2018

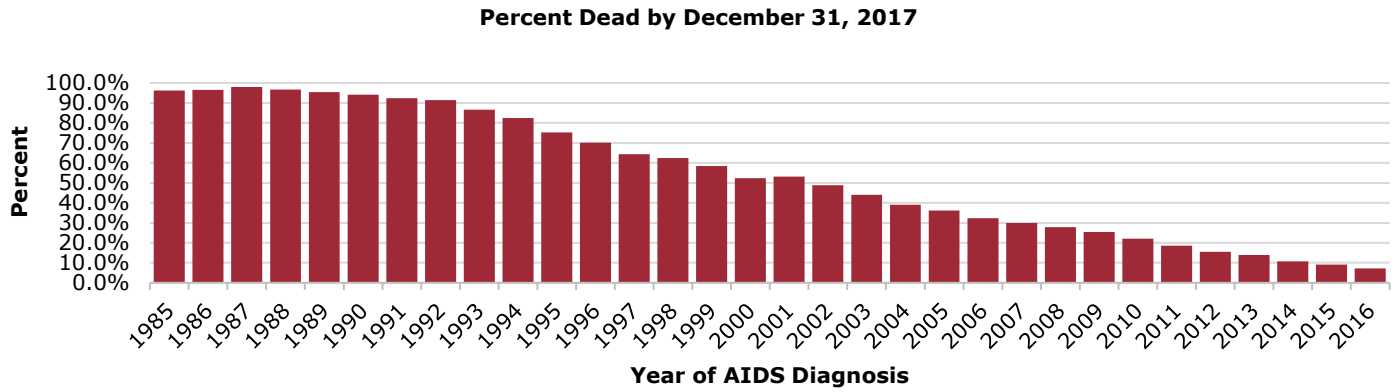
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by December 31, 2016 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by December 31, 2017, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2016, as Reported by Name through June 30, 2018



Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses							
	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	371	355	95.7%	7.2	38.3%	38.3%	41.2%	66.0%
1985	702	652	92.9%	6.2	31.2%	32.8%	40.6%	75.8%
1986	928	878	94.6%	5.3	36.7%	37.8%	49.5%	81.9%
1987	1,230	1,147	93.3%	4.4	38.1%	40.7%	57.4%	83.7%
1988	1,682	1,564	93.0%	3.8	40.7%	44.8%	65.7%	85.9%
1989	2,126	1,938	91.2%	3.5	41.1%	45.8%	68.5%	84.4%
1990	2,217	2,009	90.6%	3.1	44.1%	51.2%	72.4%	84.8%
1991	2,552	2,284	89.5%	2.8	46.5%	55.5%	73.9%	83.6%
1992	2,404	2,167	90.1%	2.8	49.5%	57.9%	74.5%	83.3%
1993	2,146	1,932	90.0%	2.3	55.1%	63.4%	76.7%	85.5%
1994	1,982	1,758	88.7%	2.2	57.1%	64.3%	75.5%	83.5%
1995	1,972	1,722	87.3%	2.3	58.3%	63.8%	72.7%	82.3%
1996	1,825	1,532	83.9%	2.1	58.6%	62.8%	70.5%	79.6%
1997	1,857	1,507	81.2%	2.1	55.7%	60.4%	68.3%	76.6%
1998	1,826	1,473	80.7%	2.1	56.0%	59.8%	67.9%	75.8%
1999	1,780	1,382	77.6%	1.9	56.1%	59.9%	67.1%	73.7%
2000	1,712	1,351	78.9%	1.9	55.1%	59.1%	68.0%	75.4%
2001	1,824	1,412	77.4%	1.7	56.1%	59.5%	68.4%	74.1%
2002	2,042	1,518	74.3%	1.7	54.4%	58.2%	65.2%	71.1%
2003	1,937	1,399	72.2%	1.5	54.1%	57.3%	63.2%	69.8%
2004	1,969	1,370	69.6%	1.7	50.6%	54.0%	59.8%	67.0%
2005	2,030	1,274	62.8%	1.5	46.3%	49.2%	55.0%	61.2%
2006	2,155	1,182	54.8%	1.7	38.4%	40.8%	47.7%	53.7%
2007	2,166	1,074	49.6%	1.9	32.3%	34.9%	41.7%	48.4%
2008	2,059	945	45.9%	1.6	30.7%	33.8%	40.8%	--
2009	1,720	756	44.0%	1.6	29.4%	31.9%	38.8%	--
2010	1,774	720	40.6%	1.4	27.8%	30.6%	36.8%	--
2011	1,441	580	40.2%	1.0	30.3%	33.7%	37.8%	--
2012	1,351	506	37.5%	0.8	29.5%	32.1%	36.8%	--
2013	1,309	480	36.7%	0.6	31.4%	33.0%	--	--
2014	1,257	397	31.6%	0.5	26.2%	28.6%	--	--
2015	1,207	355	29.4%	0.4	25.9%	28.3%	--	--
2016	1,115	294	26.4%	0.3	24.4%	--	--	--
Total	56,668	39,913	70.4%	2.4	44.2%	48.4%	58.1%	66.6%

Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2016, Reported through June 30, 2018

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2016 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by December 31, 2017 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by December 31, 2017, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses 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 2016, as Reported by Name through June 30, 2018



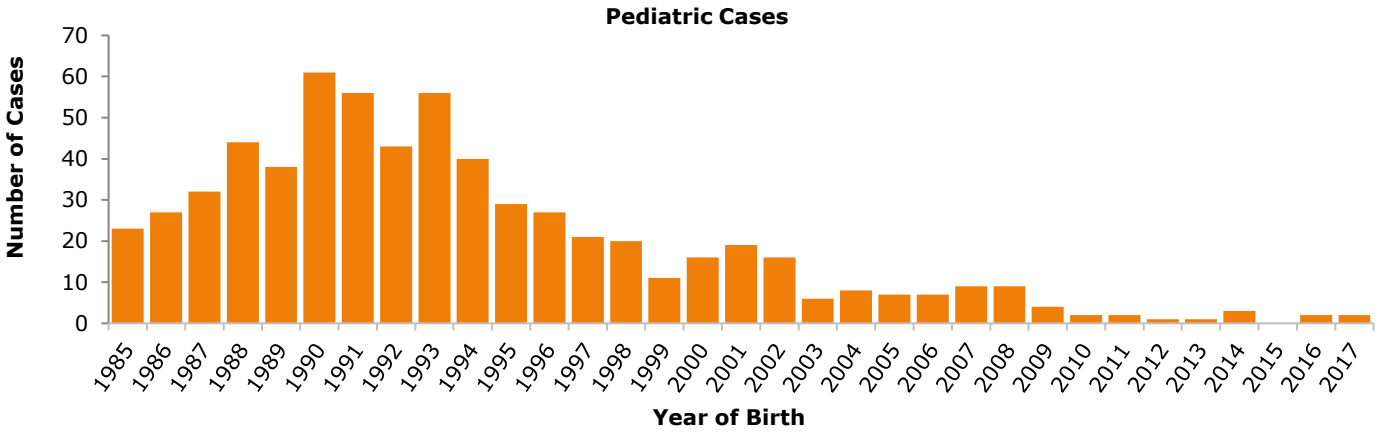
Year of AIDS Diagnosis	Adult/Adolescent Reported AIDS Diagnoses							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	145	140	96.6%	1.7	42.8%	20.7%	10.3%	7.6%
1985	211	203	96.2%	1.7	42.7%	19.9%	11.4%	6.2%
1986	315	304	96.5%	2.2	51.1%	33.0%	13.0%	8.3%
1987	495	485	98.0%	2.2	57.0%	31.7%	11.1%	5.9%
1988	694	672	96.8%	2.3	60.7%	38.2%	14.0%	6.5%
1989	926	883	95.4%	2.7	63.9%	43.4%	17.6%	9.5%
1990	1,174	1,105	94.1%	3.0	66.7%	48.0%	21.3%	12.1%
1991	1,469	1,358	92.4%	2.8	68.4%	48.3%	19.1%	12.9%
1992	1,952	1,787	91.5%	3.2	71.8%	50.6%	22.2%	16.3%
1993	2,249	1,948	86.6%	3.8	77.2%	56.6%	33.4%	22.7%
1994	2,169	1,787	82.4%	3.9	78.0%	58.9%	39.7%	26.6%
1995	2,163	1,627	75.2%	4.9	78.6%	67.5%	51.8%	37.6%
1996	1,937	1,357	70.1%	5.4	82.3%	75.7%	60.2%	43.7%
1997	1,685	1,084	64.3%	5.6	85.2%	78.1%	63.6%	48.7%
1998	1,541	963	62.5%	5.6	87.0%	80.8%	66.1%	49.5%
1999	1,531	896	58.5%	5.3	87.4%	81.0%	66.8%	51.9%
2000	1,426	746	52.3%	5.2	88.3%	83.7%	70.0%	56.7%
2001	1,540	819	53.2%	4.7	86.7%	79.8%	66.9%	55.3%
2002	1,578	771	48.9%	5.0	88.7%	83.8%	71.7%	59.9%
2003	1,549	683	44.1%	4.0	85.6%	80.2%	70.6%	61.1%
2004	1,499	585	39.0%	4.2	89.1%	84.8%	75.5%	65.8%
2005	1,441	522	36.2%	3.9	89.0%	84.9%	76.1%	67.5%
2006	1,306	422	32.3%	3.6	89.7%	85.9%	77.8%	69.0%
2007	1,085	326	30.0%	3.4	89.4%	86.5%	79.6%	70.3%
2008	1,041	289	27.8%	2.7	89.1%	85.2%	78.3%	--
2009	907	231	25.5%	2.6	90.3%	87.2%	79.7%	--
2010	1,007	223	22.1%	2.5	91.7%	89.0%	82.9%	--
2011	816	151	18.5%	2.3	93.9%	90.9%	83.3%	--
2012	883	137	15.5%	1.5	91.5%	89.7%	84.6%	--
2013	861	120	13.9%	1.3	92.8%	89.5%	--	--
2014	644	69	10.7%	0.7	92.5%	90.2%	--	--
2015	636	58	9.1%	0.6	93.1%	91.7%	--	--
2016*	587	42	7.2%	0.3	93.4%	--	--	--
Total	39,462	22,793	57.8%	3.9	82.3%	72.6%	58.2%	48.7%

*2016 AIDS deaths are preliminary

Section X – Pediatric Cases

Figure 13 – Trends in Pediatric HIV Cases, 1985-2017, Reported through June 30, 2018

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS 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 Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2017, as Reported by Name through June 30, 2018



Year	Pediatric Reported HIV Diagnoses				Pediatric Total Living HIV Cases
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on December 31st of Each Year
<1985	53	3	1	0	--
1985	23	13	8	2	16
1986	27	15	6	4	27
1987	32	22	14	5	44
1988	44	28	19	6	66
1989	38	36	25	8	94
1990	61	54	23	9	139
1991	56	56	35	12	183
1992	43	63	39	12	231
1993	56	55	35	16	270
1994	40	42	29	15	296
1995	29	29	24	20	303
1996	27	37	25	19	320
1997	21	17	12	7	330
1998	20	21	12	6	344
1999	11	24	13	6	361
2000	16	14	5	1	374
2001	19	14	11	5	383
2002	16	15	9	4	393
2003	6	6	3	6	392
2004	8	10	4	5	398
2005	7	9	5	1	406
2006	7	17	6	4	420
2007	9	44	8	5	459
2008	9	15	9	3	473
2009	4	10	5	2	482
2010	2	3	8	6	481
2011	2	4	7	4	483
2012	1	3	3	4	485
2013	1	3	13	2	486
2014	3	6	5	1	492
2015	0	0	8	3	489
2016	2	4	6	3	491
2017	2	3	3	2	493
Total	695	695	438	208	--

Table 22 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Current Pediatric Total Living HIV Cases	
	No.	% of Total
Allegany	0	0.0%
Anne Arundel	1	2.0%
Baltimore City	13	26.5%
Baltimore	6	12.2%
Calvert	0	0.0%
Caroline	0	0.0%
Carroll	0	0.0%
Cecil	2	4.1%
Charles	3	6.1%
Dorchester	1	2.0%
Frederick	0	0.0%
Garrett	0	0.0%
Harford	2	4.1%
Howard	0	0.0%
Kent	0	0.0%
Montgomery	5	10.2%
Prince George's	16	32.7%
Queen Anne's	0	0.0%
Saint Mary's	0	0.0%
Somerset	0	0.0%
Talbot	0	0.0%
Washington	0	0.0%
Wicomico	0	0.0%
Worcester	0	0.0%
Corrections	0	0.0%
Total	49	100.0%

Table 23 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2018

Demographic Characteristic	Current Pediatric Total Living HIV Cases	
	No.	% of Total
Sex at Birth		
Male	19	38.8%
Female	30	61.2%
Race/Ethnicity		
Hispanic	3	6.1%
Non-Hispanic	46	93.9%
American Indian/Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	40	81.6%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	3	6.1%
Multiracial/Other	3	6.1%
Total	49	100.0%

Table 24 – Perinatal HIV Transmissions by Year of Birth, 2008-2017

Year of Birth	Live Births	Women of Childbearing Age Total Living HIV Cases	Reported Perinatal HIV Exposures	Confirmed Perinatal HIV Transmissions		
	No.	No.	No.	No.	%	Rate
2008	77,268	7,716	201	8	4.0%	10.4
2009	74,999	7,703	171	3	1.8%	4.0
2010	73,783	7,660	174	4	2.3%	5.4
2011	73,052	7,555	172	2	1.2%	2.7
2012	72,751	7,314	182	1	0.5%	1.4
2013	71,806	7,031	162	1	0.6%	1.4
2014	73,588	6,807	199	3	1.5%	4.1
2015	73,544	6,571	152	0	0.0%	0.0
2016	73,073	6,198	182	2	1.1%	2.7
2017	71,589	5,855	164	1	0.6%	1.4
Total	735,453	70,410	1,759	25	1.4%	3.4

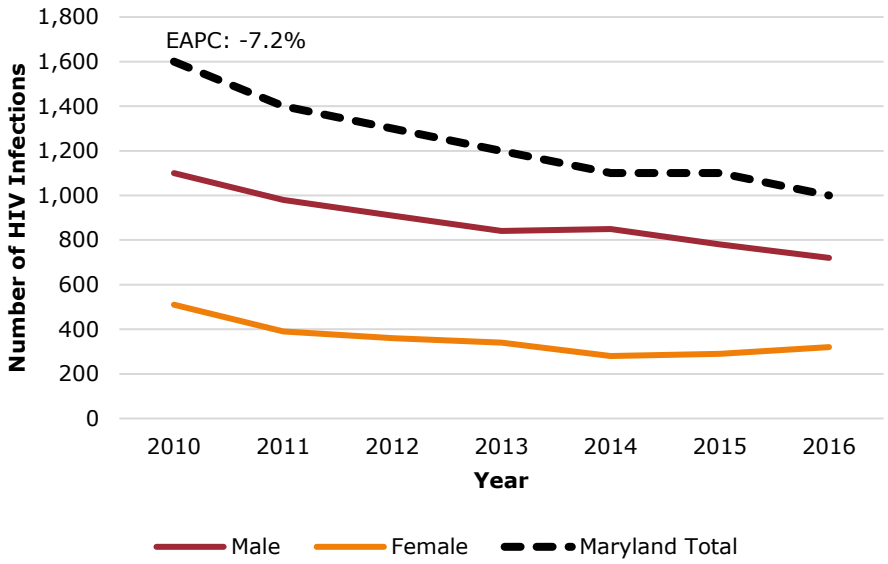
Live births from Maryland Vital Statistics Annual Report 2017.

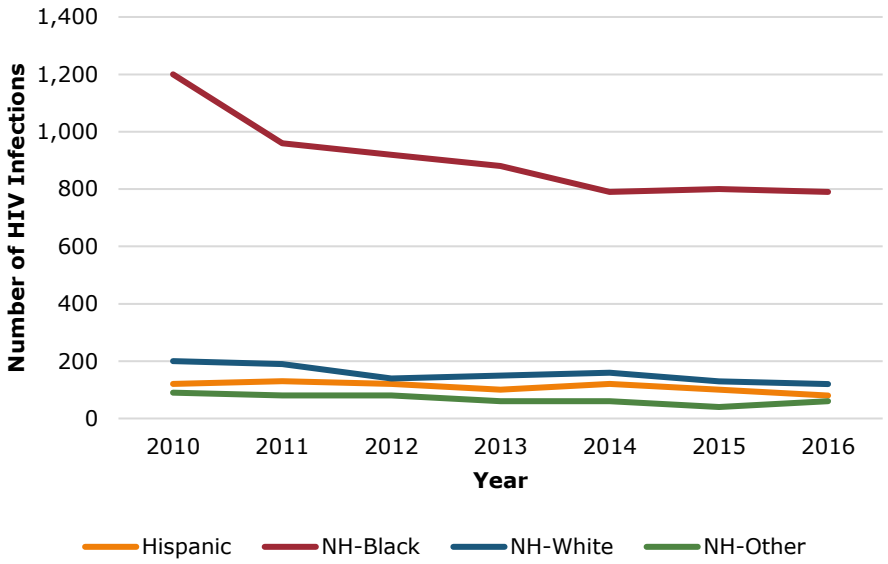
Women of childbearing age (ages 13-49) total living HIV cases and perinatal HIV exposures from Maryland Enhanced HIV/AIDS Reporting System, reported through June 30, 2018.

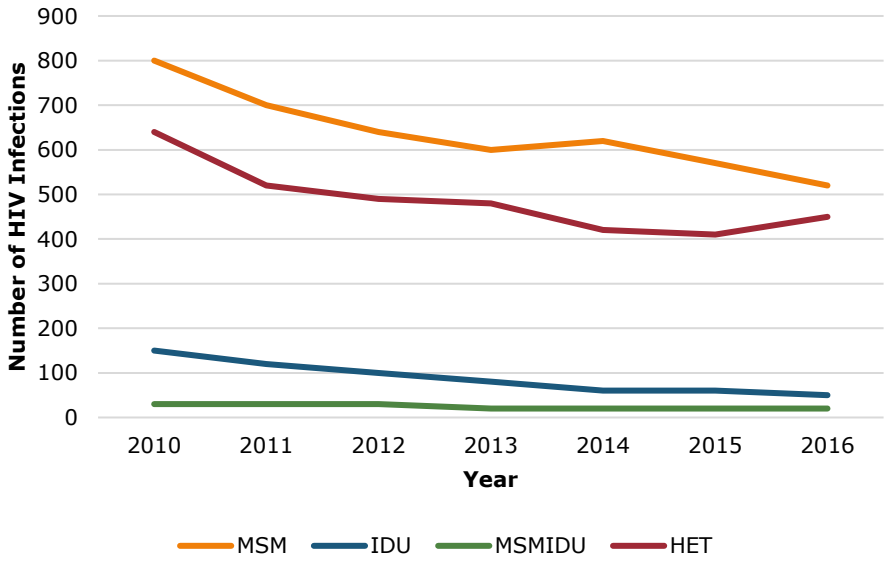
Perinatal HIV exposures and transmissions are based on residence at birth.

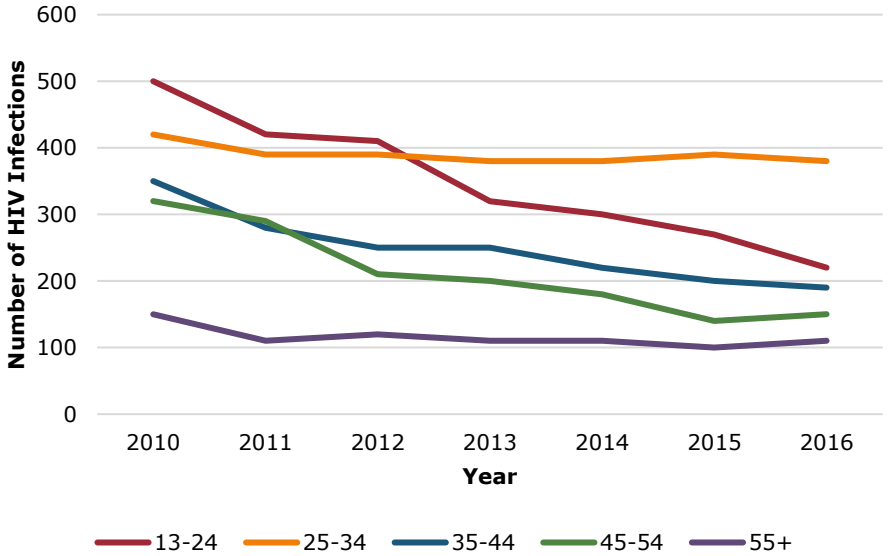
Section XI – Incidence and Prevalence Estimates

Figure 14 – Trends in Estimated Incidence and Estimated Annual Percent Change among Adult/Adolescent HIV Cases, 2010-2016, by Sex at Birth, Age, Race/Ethnicity and Exposure Category









Demographic	Adult/Adolescent Estimated Incidence							
	2010	2011	2012	2013	2014	2015	2016	Estimated Annual Percent Change (EAPC)
Sex at Birth								
Male	1,100	980	910	840	850	780	720	-6.3%
Female	510	390	360	340	280	290	320	-8.2%
Age								
13-24	500	420	410	320	300	270	220	-12.2%
25-34	420	390	390	380	380	390	380	-1.2%
35-44	350	280	250	250	220	200	190	-9.2%
45-54	320	290	210	200	180	140	150	-13.4%
55+	150	110	120	110	110	100	110	-4.5%
Race/Ethnicity								
American Indian/Alaska Native	--	--	0	--	--	0	--	--
Asian	10	10	10	10	10	10	20	9.9%
Black/African American	1,200	960	920	880	790	800	790	-6.4%
Hispanic/Latino	120	130	120	100	120	100	80	-5.7%
Native Hawaiian/Other Pacific Islander	--	--	--	--	--	--	--	--
White	200	190	140	150	160	130	120	-7.5%
Multiple races	80	70	70	50	50	30	40	-13.4%
Exposure Category								
Male-to-male sexual contact (MSM)	800	700	640	600	620	570	520	-6.1%
Injection drug use (IDU)	150	120	100	80	60	60	50	-17.4%
Male	80	60	60	40	20	40	30	-16.4%
Female	80	50	50	30	40	20	20	-20.1%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	30	30	30	20	20	20	20	-8.5%
Heterosexual contact (HET)	640	520	490	480	420	410	450	-6.1%
Male	210	180	180	170	170	140	150	-5.5%
Female	430	340	310	310	250	270	300	-6.5%
Total	1,600	1,400	1,300	1,200	1,100	1,100	1,000	-7.2%

Note. Data represent subgroup estimates, therefore, values may not sum to column total. Estimates are based on persons whose last reported address since diagnosis was in Maryland.

Table 26 – Estimated Incidence, Prevalence and Undiagnosed among Adult/Adolescent HIV Cases in 2016 by Sex at Birth, Age, Race/Ethnicity and Exposure Category

Demographic	2016 Adult/Adolescent Estimated HIV Cases						Estimated Mean Number of Years Infected at Diagnosis
	Incidence		Prevalence		Undiagnosed		
	No.	Rate	No.	Rate	No.	Percent	
Sex at Birth							
Male	720	29.6	26,100	1,077.0	3,200	12.4%	6.6
Female	320	12.3	12,800	485.5	1,300	9.9%	6.2
Age at Diagnosis							
13-24	220	23.6	1,700	187.8	880	50.6%	5.3
25-34	380	45.7	7,100	853.5	2,000	28.4%	6.8
35-44	190	24.6	7,700	1,003.5	1,100	14.8%	6.7
45-54	150	18.0	11,900	1,385.1	980	8.3%	7.1
55+	110	6.9	11,600	694.7	640	5.6%	6.3
Race/Ethnicity							
American Indian/Alaska Native	-	-	20	171.0	0	0.0%	--
Asian	20	5.3	260	79.2	40	14.5%	7.2
Black/African American	790	52.8	28,600	1,922.3	3,300	11.5%	6.2
Hispanic/Latino	80	19.3	2,700	624.0	480	17.6%	7.8
Native Hawaiian/Other Pacific Islander	-	-	10	197.8	0	0.0%	--
White	120	4.3	5,200	193.8	500	9.5%	6.6
Multiple races	40	40.1	2,100	2,306.7	210	10.2%	7.8
Exposure Category							
Male-to-male sexual contact (MSM)	520	-	15,200	-	2,200	14.6%	6.3
Injection drug use (IDU)	50	-	7,500	-	300	4.0%	5.6
Male	30	-	4,400	-	170	3.8%	5.5
Female	20	-	3,000	-	130	4.3%	5.9
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	20	-	1,500	-	110	7.0%	4.3
Heterosexual contact (HET)	450	-	14,600	-	1,900	12.9%	7.0
Male	150	-	4,900	-	740	15.3%	8.3
Female	300	-	9,700	-	1,100	11.6%	6.2
Total	1,000	20.6	38,900	769.4	4,500	11.6%	6.7

Note. Data represent subgroup estimates, therefore, values may not sum to column total. Estimates are based on persons whose last reported address since diagnosis was in Maryland.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

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 living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Confirmed Perinatal HIV Transmissions: Reported infants born to an HIV positive mother, with a confirmed HIV diagnosis and a resident of Maryland at time of birth.

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.

Estimated Annual Percent Change: Estimated percent change in annual number of incident adult/adolescent HIV infections over time.

Estimated Mean Number of Years Infected at Diagnosis: Estimated duration, in years, of HIV infection before initial HIV diagnosis.

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: Percent of adult/adolescent reported HIV diagnoses 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 12 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.

Live Births: Infants born alive in the general population.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and 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 cases 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 adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases 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 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year

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, 2017.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2017.

Rate: Number of HIV cases divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case 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 HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported Perinatal HIV Exposures: Reported infants born to an HIV positive mother during the specified year, with a residence of Maryland at time of birth.

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 Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and 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 whose gender identity is female.

Transgender Male: A person whose sex assigned at birth is female but whose gender identity is male.

Another Gender Identity: All other gender identities or gender expressions.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

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