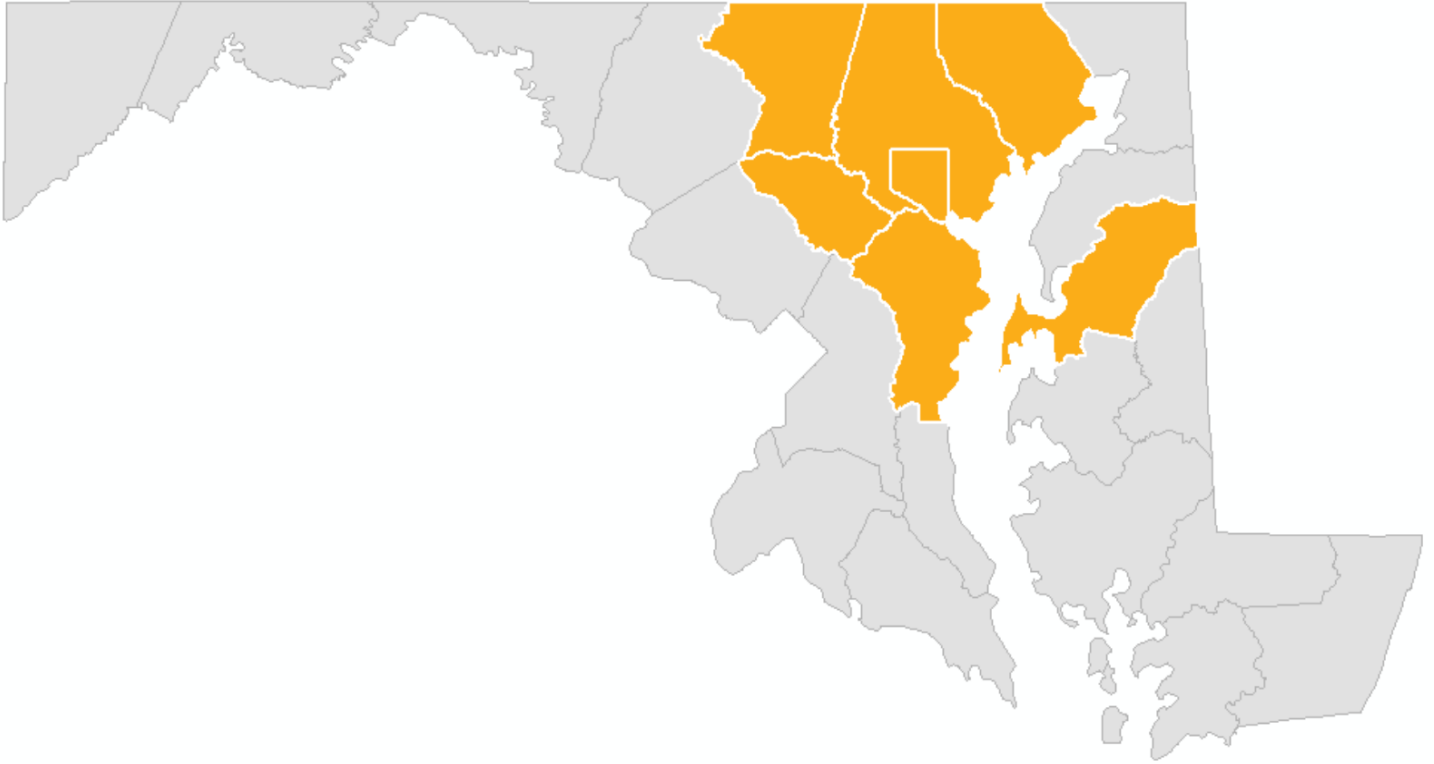


2017



Baltimore Metro 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 phone 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.

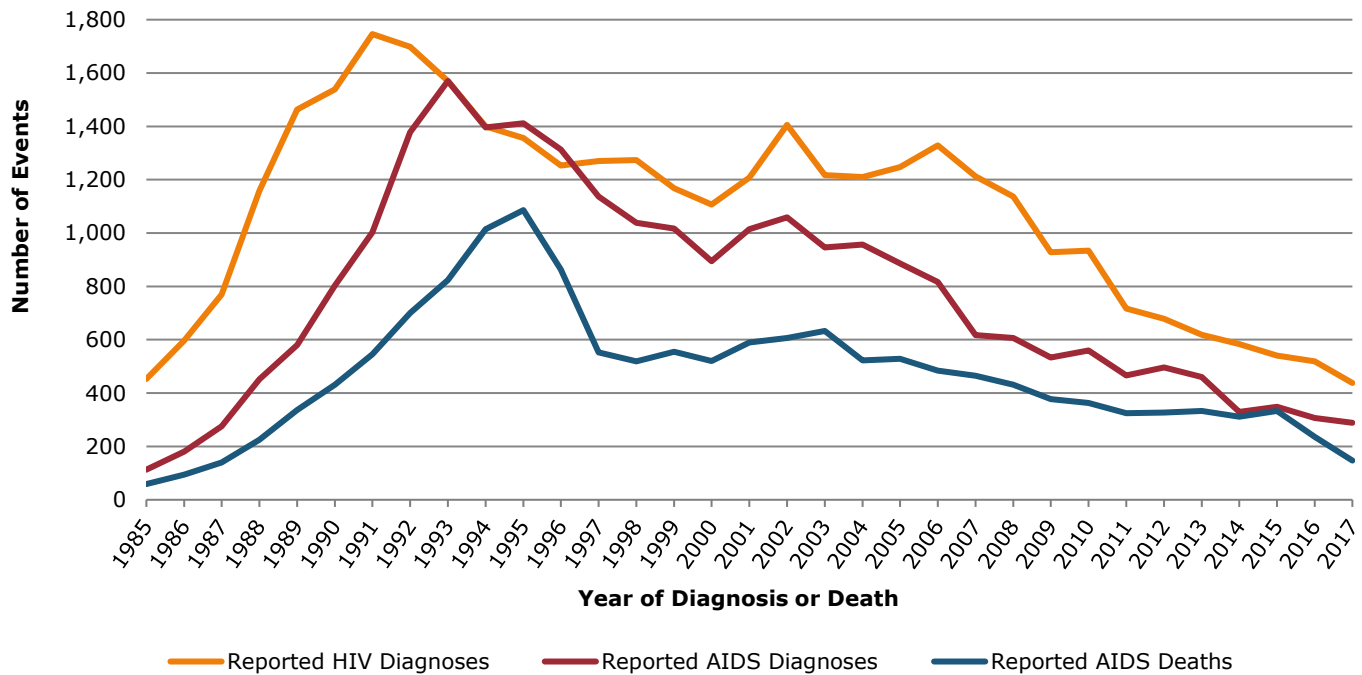
Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

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

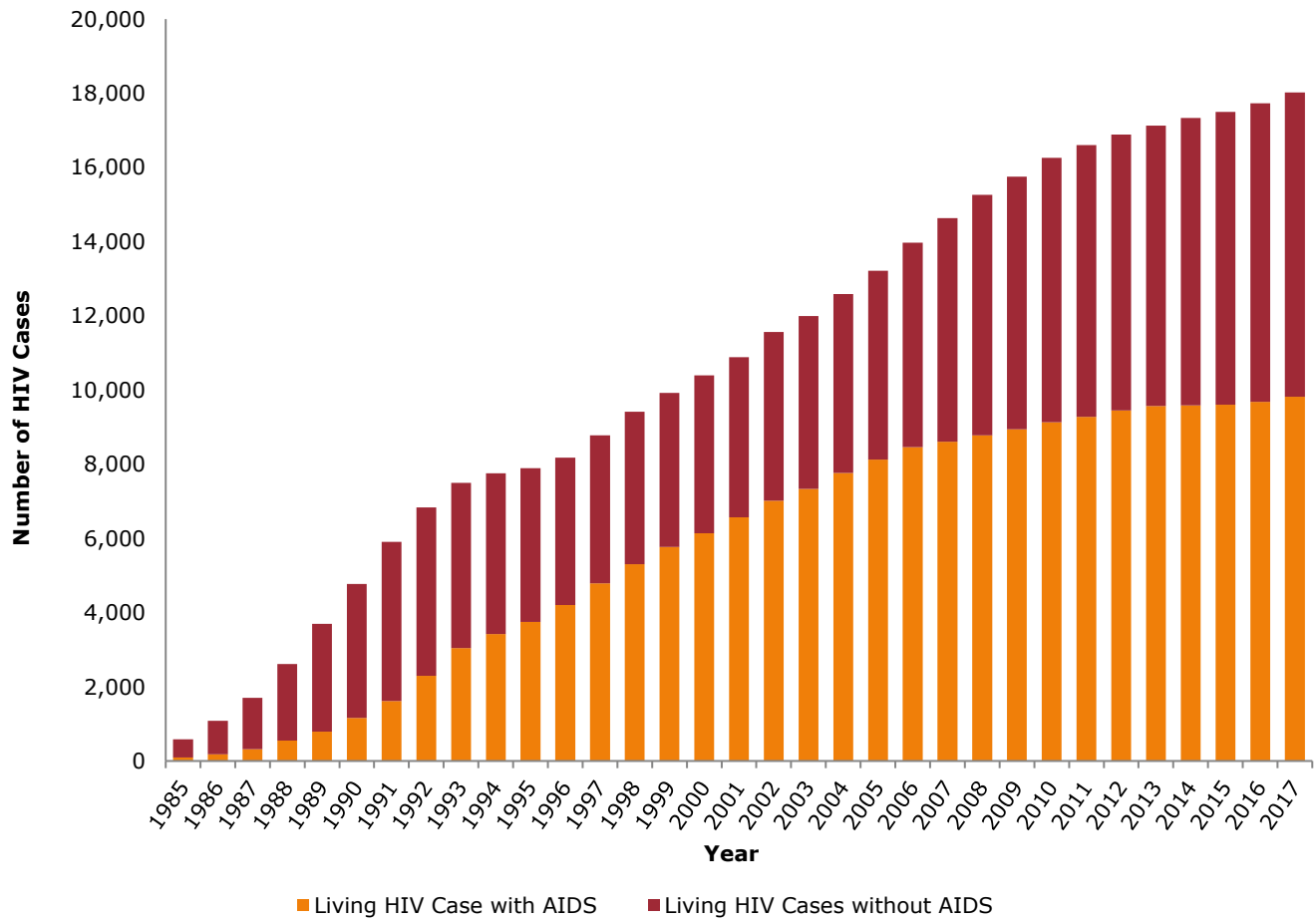


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	236	78	36	2001	1,208	1,015	590
1985	453	113	59	2002	1,405	1,059	606
1986	597	181	94	2003	1,217	946	633
1987	770	276	140	2004	1,210	957	523
1988	1,158	452	225	2005	1,247	886	529
1989	1,463	580	337	2006	1,329	817	484
1990	1,539	803	432	2007	1,212	617	465
1991	1,746	1,003	545	2008	1,137	606	432
1992	1,698	1,378	700	2009	928	534	378
1993	1,570	1,570	824	2010	934	560	363
1994	1,400	1,396	1,015	2011	717	466	325
1995	1,356	1,412	1,086	2012	679	496	327
1996	1,253	1,313	863	2013	618	460	333
1997	1,270	1,137	552	2014	584	329	311
1998	1,274	1,039	519	2015	541	349	333
1999	1,168	1,017	555	2016*	519	307	236
2000	1,107	894	520	2017*	438	289	147
				Total	35,981	25,335	15,517

*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

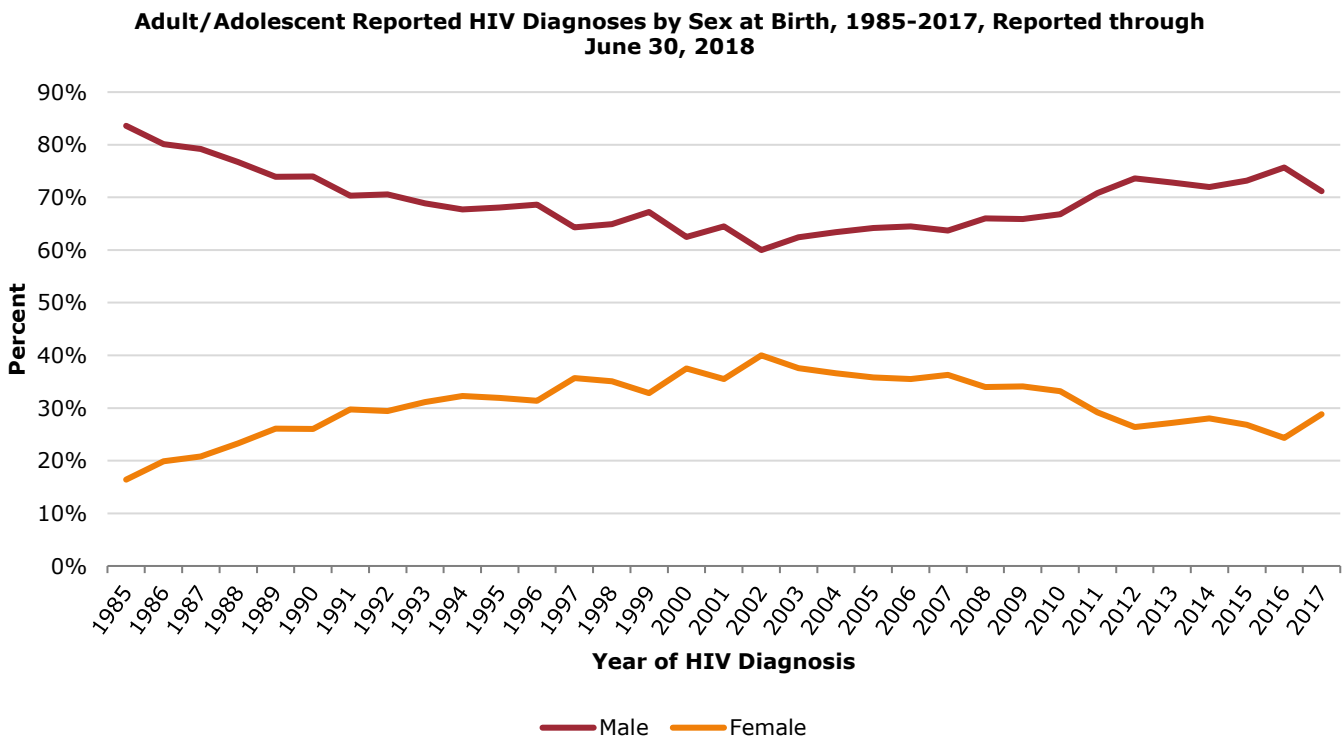
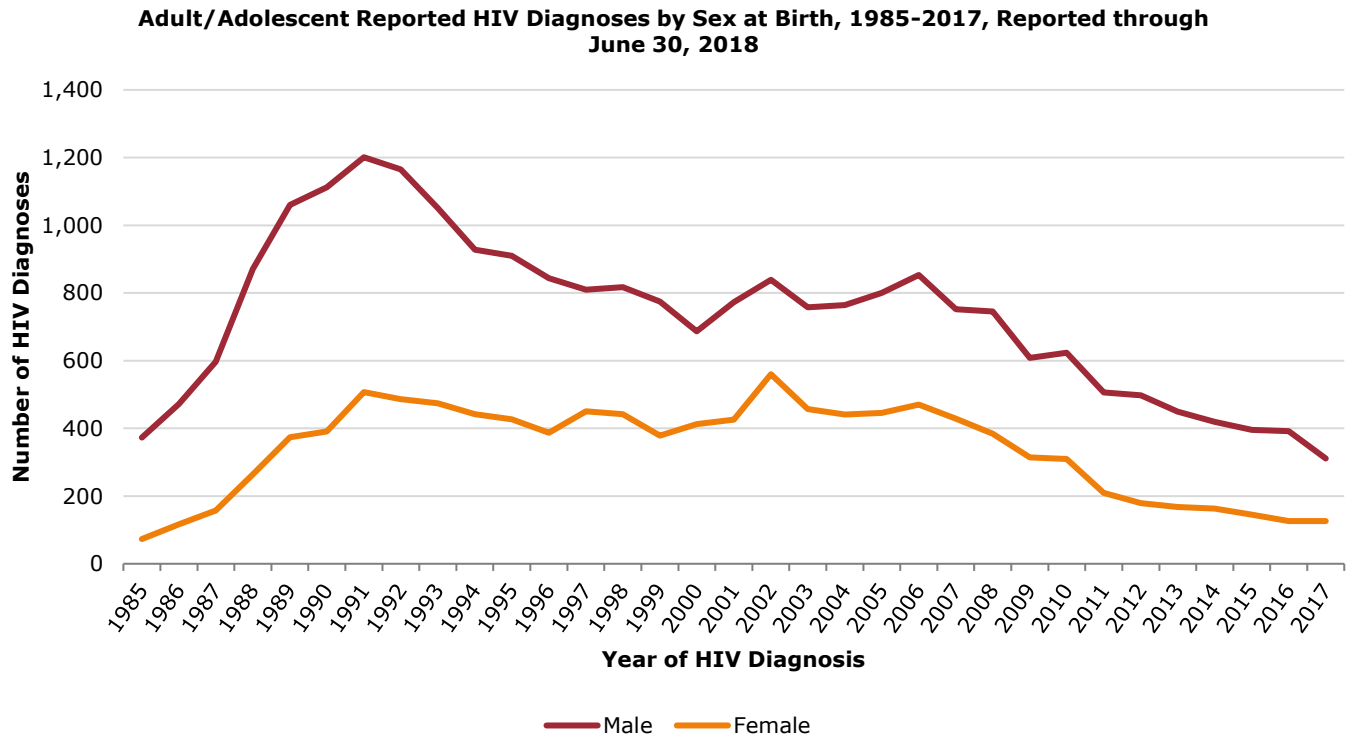
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2017, as Reported through June 30, 2018



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	491	96	587	2002	4,543	7,020	11,563
1986	898	183	1,081	2003	4,660	7,333	11,993
1987	1,386	320	1,706	2004	4,818	7,767	12,585
1988	2,071	547	2,618	2005	5,090	8,124	13,214
1989	2,906	790	3,696	2006	5,514	8,457	13,971
1990	3,609	1,161	4,770	2007	6,030	8,609	14,639
1991	4,288	1,619	5,907	2008	6,481	8,783	15,264
1992	4,537	2,297	6,834	2009	6,815	8,939	15,754
1993	4,454	3,043	7,497	2010	7,127	9,136	16,263
1994	4,328	3,425	7,753	2011	7,323	9,277	16,600
1995	4,147	3,751	7,898	2012	7,446	9,446	16,892
1996	3,977	4,201	8,178	2013	7,558	9,573	17,131
1997	3,997	4,786	8,783	2014	7,744	9,591	17,335
1998	4,111	5,306	9,417	2015	7,895	9,607	17,502
1999	4,157	5,768	9,925	2016	8,055	9,678	17,733
2000	4,250	6,142	10,392	2017	8,204	9,820	18,024
2001	4,316	6,567	10,883				

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

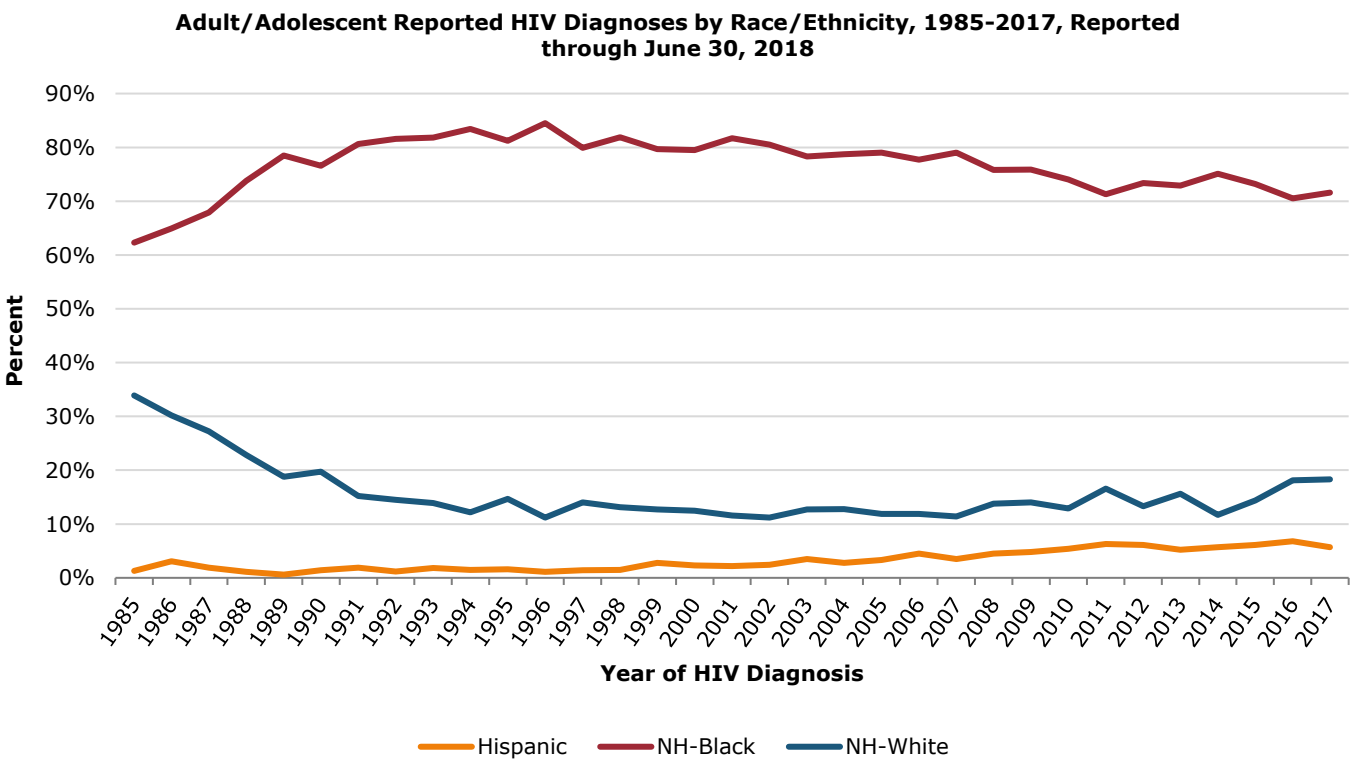
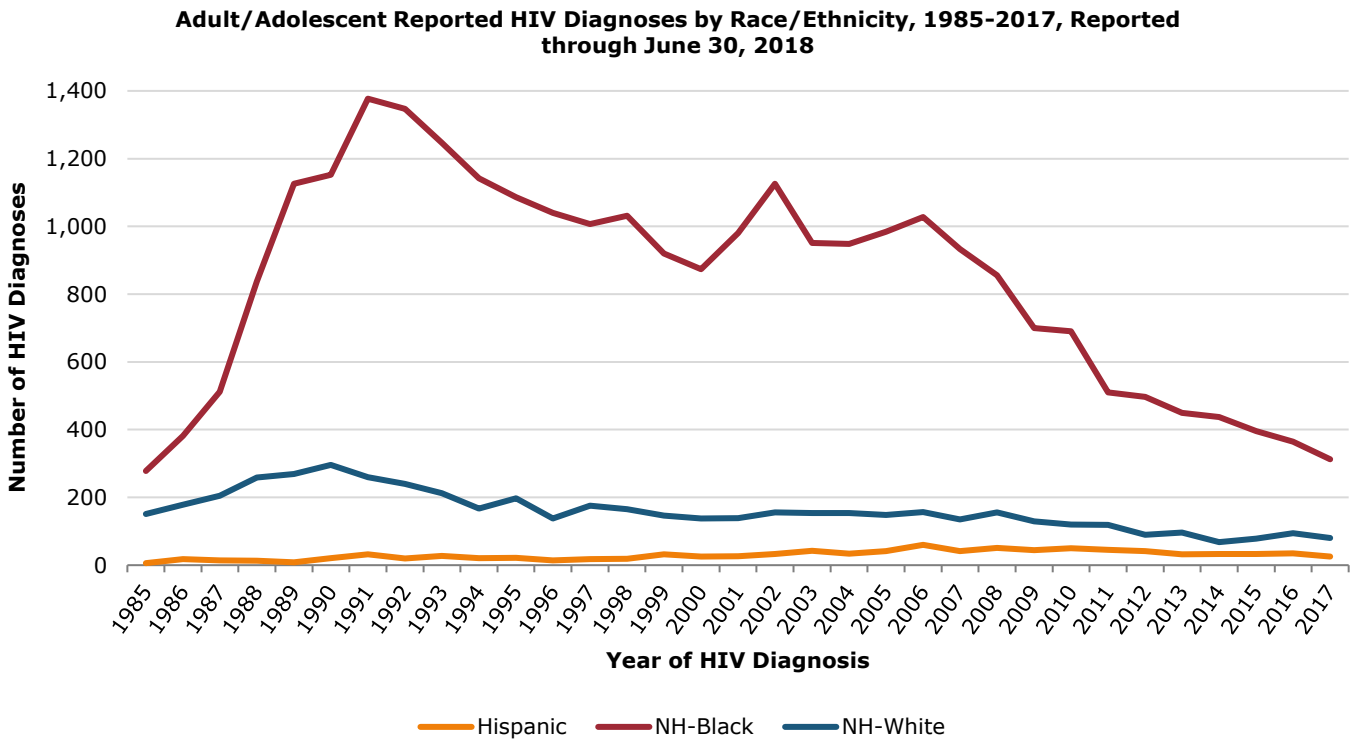


Adult/Adolescent Reported HIV Diagnoses

Year of HIV Diagnosis	No.	Sex at Birth			
		Male		Female	
		No.	%	No.	%
<1985	234	203	86.8%	31	13.2%
1985	446	373	83.6%	73	16.4%
1986	589	472	80.1%	117	19.9%
1987	754	597	79.2%	157	20.8%
1988	1,135	871	76.7%	264	23.3%
1989	1,434	1,060	73.9%	374	26.1%
1990	1,503	1,112	74.0%	391	26.0%
1991	1,708	1,201	70.3%	507	29.7%
1992	1,651	1,165	70.6%	486	29.4%
1993	1,525	1,051	68.9%	474	31.1%
1994	1,370	928	67.7%	442	32.3%
1995	1,337	910	68.1%	427	31.9%
1996	1,231	844	68.6%	387	31.4%
1997	1,260	810	64.3%	450	35.7%
1998	1,259	817	64.9%	442	35.1%
1999	1,154	775	67.2%	379	32.8%
2000	1,100	687	62.5%	413	37.5%
2001	1,199	773	64.5%	426	35.5%
2002	1,399	839	60.0%	560	40.0%
2003	1,215	758	62.4%	457	37.6%
2004	1,205	764	63.4%	441	36.6%
2005	1,246	800	64.2%	446	35.8%
2006	1,323	853	64.5%	470	35.5%
2007	1,181	752	63.7%	429	36.3%
2008	1,129	745	66.0%	384	34.0%
2009	922	608	65.9%	314	34.1%
2010	933	623	66.8%	310	33.2%
2011	715	506	70.8%	209	29.2%
2012	677	498	73.6%	179	26.4%
2013	617	449	72.8%	168	27.2%
2014	582	419	72.0%	163	28.0%
2015	541	396	73.2%	145	26.8%
2016	518	392	75.7%	126	24.3%
2017	437	311	71.2%	126	28.8%
Total	35,529	24,362	68.6%	11,167	31.4%

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



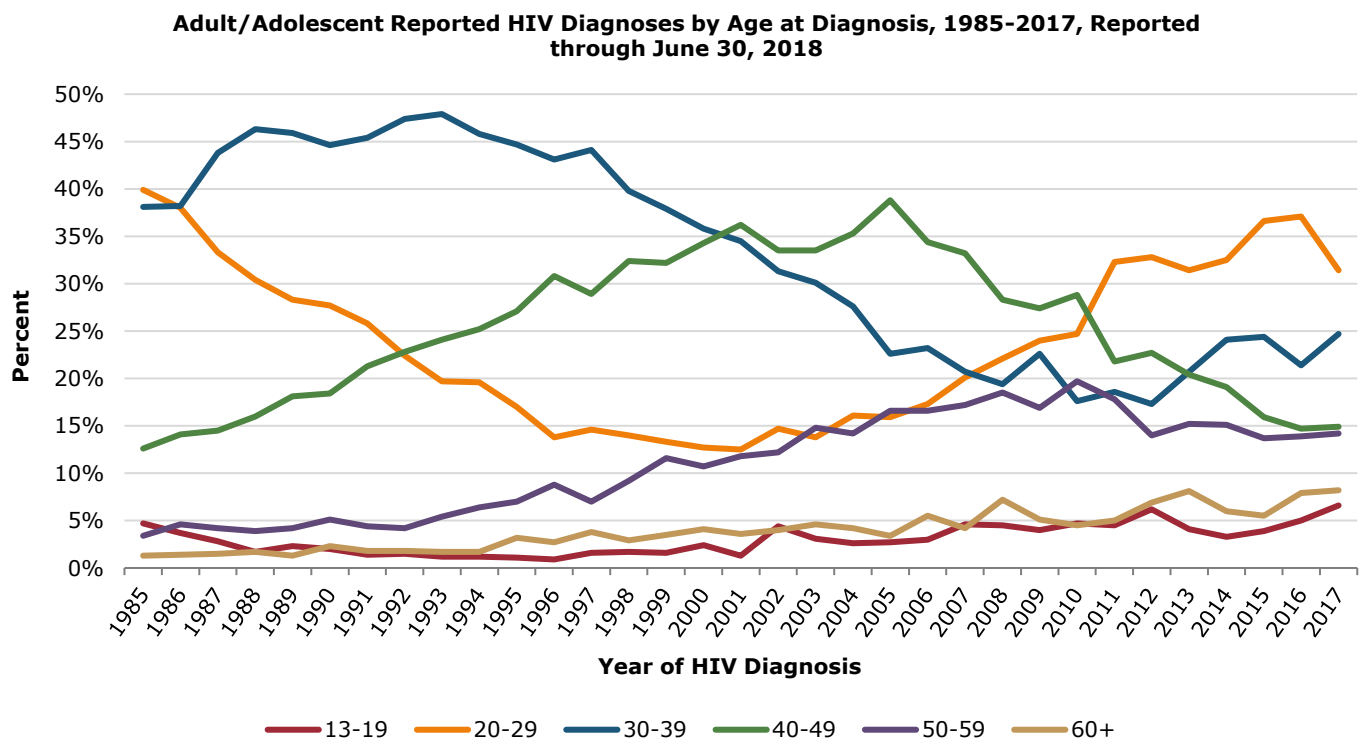
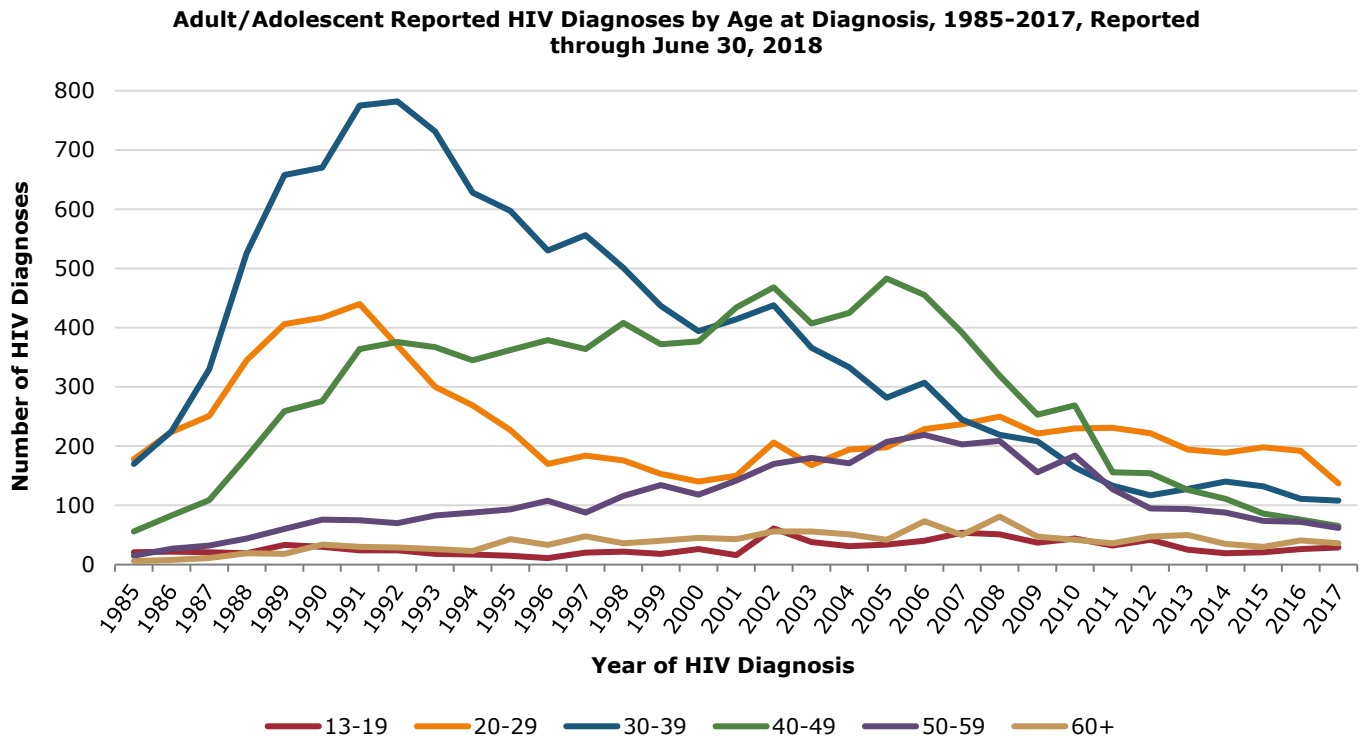
Non-Hispanic Other race not shown

Adult/Adolescent Reported HIV Diagnoses

Year of HIV Diagnosis	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	234	7	3.0%	125	53.4%	95	40.6%	7	3.0%
1985	446	6	1.3%	278	62.3%	151	33.9%	11	2.5%
1986	589	18	3.1%	382	64.9%	178	30.2%	11	1.9%
1987	754	14	1.9%	512	67.9%	205	27.2%	23	3.1%
1988	1,135	13	1.1%	838	73.8%	259	22.8%	25	2.2%
1989	1,434	8	0.6%	1,126	78.5%	269	18.8%	31	2.2%
1990	1,503	21	1.4%	1,152	76.6%	296	19.7%	34	2.3%
1991	1,708	32	1.9%	1,377	80.6%	260	15.2%	39	2.3%
1992	1,651	20	1.2%	1,347	81.6%	240	14.5%	44	2.7%
1993	1,525	27	1.8%	1,247	81.8%	212	13.9%	39	2.6%
1994	1,370	21	1.5%	1,142	83.4%	167	12.2%	40	2.9%
1995	1,337	22	1.6%	1,086	81.2%	197	14.7%	32	2.4%
1996	1,231	14	1.1%	1,040	84.5%	138	11.2%	39	3.2%
1997	1,260	18	1.4%	1,007	79.9%	176	14.0%	59	4.7%
1998	1,259	19	1.5%	1,031	81.9%	165	13.1%	44	3.5%
1999	1,154	32	2.8%	920	79.7%	146	12.7%	56	4.9%
2000	1,100	25	2.3%	874	79.5%	138	12.5%	63	5.7%
2001	1,199	26	2.2%	980	81.7%	139	11.6%	54	4.5%
2002	1,399	33	2.4%	1,126	80.5%	156	11.2%	84	6.0%
2003	1,215	42	3.5%	951	78.3%	154	12.7%	68	5.6%
2004	1,205	34	2.8%	948	78.7%	154	12.8%	69	5.7%
2005	1,246	41	3.3%	984	79.0%	148	11.9%	73	5.9%
2006	1,323	60	4.5%	1,028	77.7%	157	11.9%	78	5.9%
2007	1,181	41	3.5%	933	79.0%	135	11.4%	72	6.1%
2008	1,129	51	4.5%	856	75.8%	156	13.8%	66	5.8%
2009	922	44	4.8%	700	75.9%	129	14.0%	49	5.3%
2010	933	50	5.4%	690	74.0%	120	12.9%	73	7.8%
2011	715	45	6.3%	510	71.3%	119	16.6%	41	5.7%
2012	677	41	6.1%	497	73.4%	90	13.3%	49	7.2%
2013	617	32	5.2%	450	72.9%	96	15.6%	39	6.3%
2014	582	33	5.7%	437	75.1%	68	11.7%	44	7.6%
2015	541	33	6.1%	396	73.2%	78	14.4%	34	6.3%
2016	518	35	6.8%	365	70.5%	94	18.1%	24	4.6%
2017	437	25	5.7%	313	71.6%	80	18.3%	19	4.3%
Total	35,529	983	2.8%	27,648	77.8%	5,365	15.1%	1,533	4.3%

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

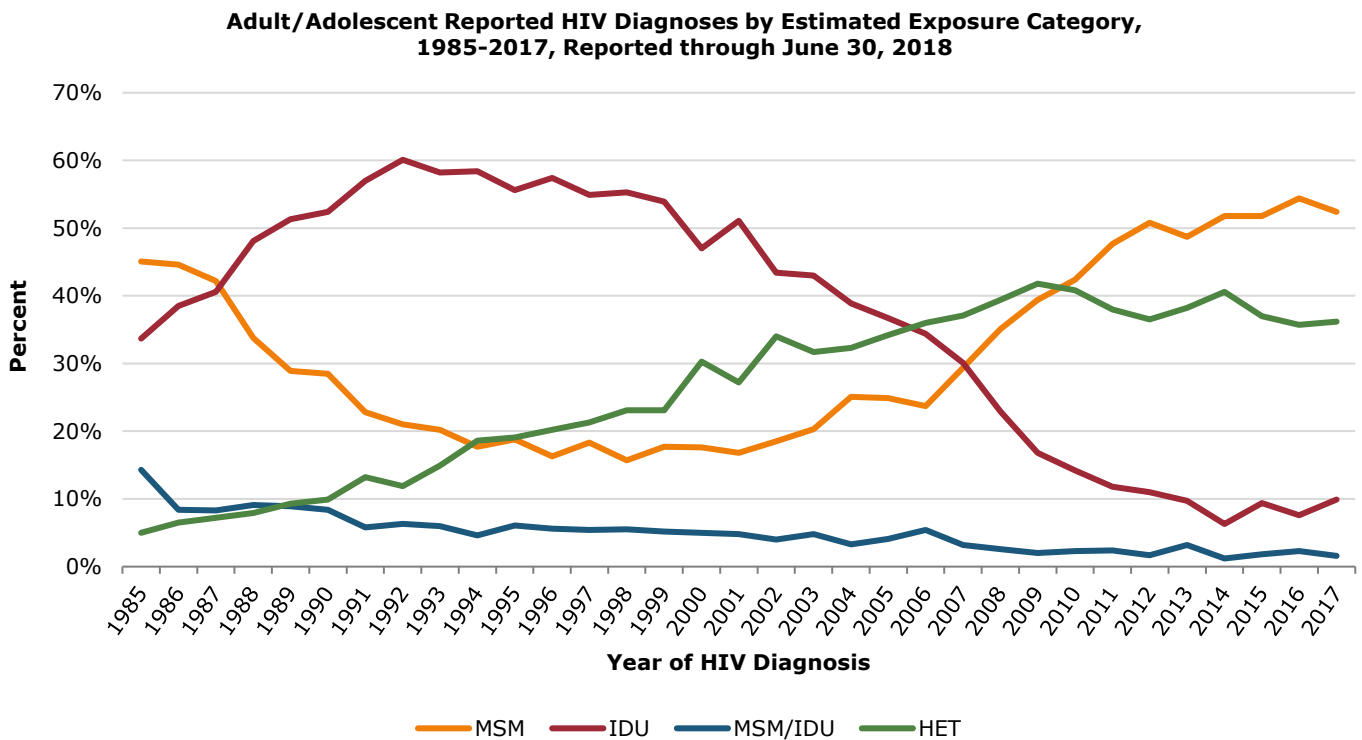
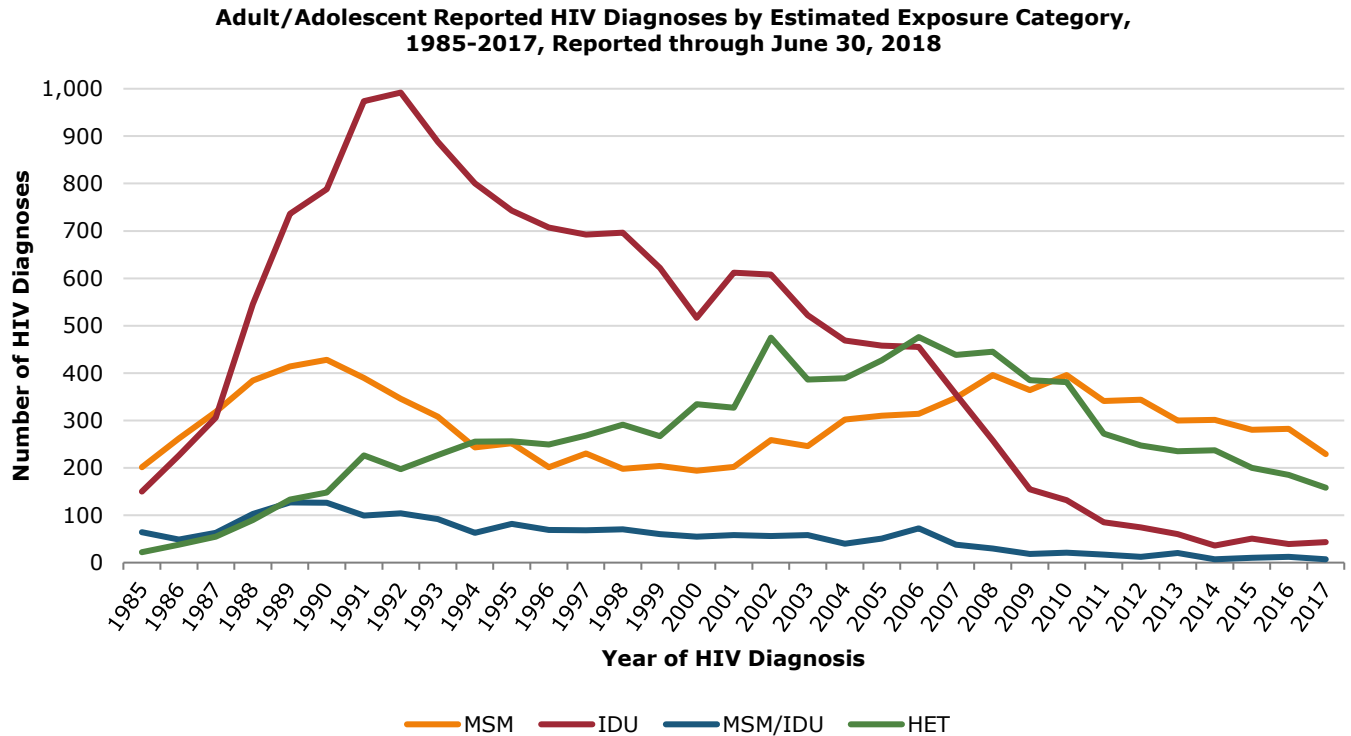


Adult/Adolescent Reported HIV Diagnoses

Year of HIV Diagnosis	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	234	15	6.4%	101	43.2%	72	30.8%	31	13.2%	14	6.0%	1	0.4%
1985	446	21	4.7%	178	39.9%	170	38.1%	56	12.6%	15	3.4%	6	1.3%
1986	589	22	3.7%	224	38.0%	225	38.2%	83	14.1%	27	4.6%	8	1.4%
1987	754	21	2.8%	251	33.3%	330	43.8%	109	14.5%	32	4.2%	11	1.5%
1988	1,135	19	1.7%	345	30.4%	526	46.3%	182	16.0%	44	3.9%	19	1.7%
1989	1,434	33	2.3%	406	28.3%	658	45.9%	259	18.1%	60	4.2%	18	1.3%
1990	1,503	30	2.0%	417	27.7%	670	44.6%	276	18.4%	76	5.1%	34	2.3%
1991	1,708	24	1.4%	440	25.8%	775	45.4%	364	21.3%	75	4.4%	30	1.8%
1992	1,651	24	1.5%	370	22.4%	782	47.4%	376	22.8%	70	4.2%	29	1.8%
1993	1,525	18	1.2%	300	19.7%	731	47.9%	367	24.1%	83	5.4%	26	1.7%
1994	1,370	17	1.2%	269	19.6%	628	45.8%	345	25.2%	88	6.4%	23	1.7%
1995	1,337	15	1.1%	227	17.0%	597	44.7%	362	27.1%	93	7.0%	43	3.2%
1996	1,231	11	0.9%	170	13.8%	530	43.1%	379	30.8%	108	8.8%	33	2.7%
1997	1,260	20	1.6%	184	14.6%	556	44.1%	364	28.9%	88	7.0%	48	3.8%
1998	1,259	22	1.7%	176	14.0%	501	39.8%	408	32.4%	116	9.2%	36	2.9%
1999	1,154	18	1.6%	153	13.3%	437	37.9%	372	32.2%	134	11.6%	40	3.5%
2000	1,100	26	2.4%	140	12.7%	394	35.8%	377	34.3%	118	10.7%	45	4.1%
2001	1,199	16	1.3%	150	12.5%	414	34.5%	434	36.2%	142	11.8%	43	3.6%
2002	1,399	61	4.4%	206	14.7%	438	31.3%	468	33.5%	170	12.2%	56	4.0%
2003	1,215	38	3.1%	168	13.8%	366	30.1%	407	33.5%	180	14.8%	56	4.6%
2004	1,205	31	2.6%	194	16.1%	333	27.6%	425	35.3%	171	14.2%	51	4.2%
2005	1,246	34	2.7%	198	15.9%	282	22.6%	483	38.8%	207	16.6%	42	3.4%
2006	1,323	40	3.0%	229	17.3%	307	23.2%	455	34.4%	219	16.6%	73	5.5%
2007	1,181	54	4.6%	237	20.1%	245	20.7%	392	33.2%	203	17.2%	50	4.2%
2008	1,129	51	4.5%	250	22.1%	219	19.4%	319	28.3%	209	18.5%	81	7.2%
2009	922	37	4.0%	221	24.0%	208	22.6%	253	27.4%	156	16.9%	47	5.1%
2010	933	44	4.7%	230	24.7%	164	17.6%	269	28.8%	184	19.7%	42	4.5%
2011	715	32	4.5%	231	32.3%	133	18.6%	156	21.8%	127	17.8%	36	5.0%
2012	677	42	6.2%	222	32.8%	117	17.3%	154	22.7%	95	14.0%	47	6.9%
2013	617	25	4.1%	194	31.4%	128	20.7%	126	20.4%	94	15.2%	50	8.1%
2014	582	19	3.3%	189	32.5%	140	24.1%	111	19.1%	88	15.1%	35	6.0%
2015	541	21	3.9%	198	36.6%	132	24.4%	86	15.9%	74	13.7%	30	5.5%
2016	518	26	5.0%	192	37.1%	111	21.4%	76	14.7%	72	13.9%	41	7.9%
2017	437	29	6.6%	137	31.4%	108	24.7%	65	14.9%	62	14.2%	36	8.2%
Total	35,529	956	2.7%	7,797	21.9%	12,427	35.0%	9,389	26.4%	3,694	10.4%	1,266	3.6%

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.

Adult/Adolescent Reported HIV Diagnoses												
Year of HIV Diagnosis	No.	% with No Reported Exposure [‡]	Estimated Exposure Category [§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	234	2.6%	129	55.2%	62	26.5%	26	11.0%	8	3.5%	9	3.8%
1985	446	4.3%	201	45.1%	150	33.7%	64	14.3%	22	5.0%	9	2.0%
1986	589	3.1%	262	44.6%	226	38.5%	49	8.4%	38	6.5%	12	2.0%
1987	754	2.9%	318	42.2%	306	40.6%	63	8.3%	55	7.2%	12	1.6%
1988	1,135	3.0%	384	33.8%	546	48.1%	103	9.1%	90	7.9%	13	1.1%
1989	1,434	2.6%	414	28.9%	736	51.3%	127	8.9%	133	9.3%	24	1.7%
1990	1,503	4.2%	428	28.5%	788	52.4%	126	8.4%	148	9.9%	13	0.9%
1991	1,708	3.7%	390	22.8%	974	57.0%	99	5.8%	226	13.2%	19	1.1%
1992	1,651	4.7%	346	21.0%	992	60.1%	104	6.3%	197	11.9%	12	0.7%
1993	1,525	2.8%	308	20.2%	888	58.2%	92	6.0%	227	14.9%	10	0.7%
1994	1,370	3.9%	243	17.7%	800	58.4%	63	4.6%	255	18.6%	9	0.7%
1995	1,337	4.3%	252	18.8%	743	55.6%	82	6.1%	256	19.1%	4	0.3%
1996	1,231	4.3%	201	16.3%	707	57.4%	69	5.6%	249	20.2%	5	0.4%
1997	1,260	6.2%	230	18.3%	692	54.9%	68	5.4%	268	21.3%	2	0.2%
1998	1,259	5.2%	198	15.7%	696	55.3%	70	5.5%	291	23.1%	4	0.3%
1999	1,154	7.3%	204	17.7%	622	53.9%	60	5.2%	267	23.1%	2	0.2%
2000	1,100	7.1%	194	17.6%	517	47.0%	55	5.0%	334	30.3%	1	0.1%
2001	1,199	7.8%	202	16.8%	612	51.1%	58	4.8%	327	27.2%	1	0.1%
2002	1,399	10.4%	259	18.5%	608	43.4%	56	4.0%	475	34.0%	1	0.1%
2003	1,215	9.5%	246	20.3%	522	43.0%	58	4.8%	386	31.7%	3	0.2%
2004	1,205	10.2%	302	25.1%	469	38.9%	40	3.3%	389	32.3%	5	0.4%
2005	1,246	14.5%	310	24.9%	458	36.7%	51	4.1%	427	34.2%	1	0.1%
2006	1,323	18.7%	314	23.7%	455	34.4%	72	5.4%	476	36.0%	6	0.5%
2007	1,181	20.1%	348	29.4%	355	30.1%	38	3.2%	438	37.1%	3	0.3%
2008	1,129	27.4%	396	35.1%	258	22.9%	30	2.6%	445	39.4%	0	0.0%
2009	922	28.1%	364	39.4%	155	16.8%	18	2.0%	385	41.8%	0	0.0%
2010	933	32.3%	396	42.4%	132	14.2%	21	2.3%	381	40.8%	3	0.3%
2011	715	26.9%	341	47.7%	85	11.8%	17	2.4%	272	38.0%	0	0.0%
2012	677	17.9%	344	50.8%	74	11.0%	12	1.7%	247	36.5%	0	0.0%
2013	617	11.3%	300	48.7%	60	9.7%	20	3.2%	235	38.2%	1	0.2%
2014	582	9.1%	301	51.8%	36	6.3%	7	1.2%	237	40.6%	1	0.2%
2015	541	5.9%	280	51.8%	51	9.4%	10	1.8%	200	37.0%	0	0.0%
2016	518	12.5%	282	54.4%	39	7.6%	12	2.3%	185	35.7%	0	0.0%
2017	437	13.7%	229	52.4%	43	9.9%	7	1.6%	158	36.2%	0	0.0%
Total	35,529	9.7%	9,918	27.9%	14,856	41.8%	1,844	5.2%	8,724	24.6%	185	0.5%

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

‡Percent with no reported exposure prior to multiple imputation adjustment

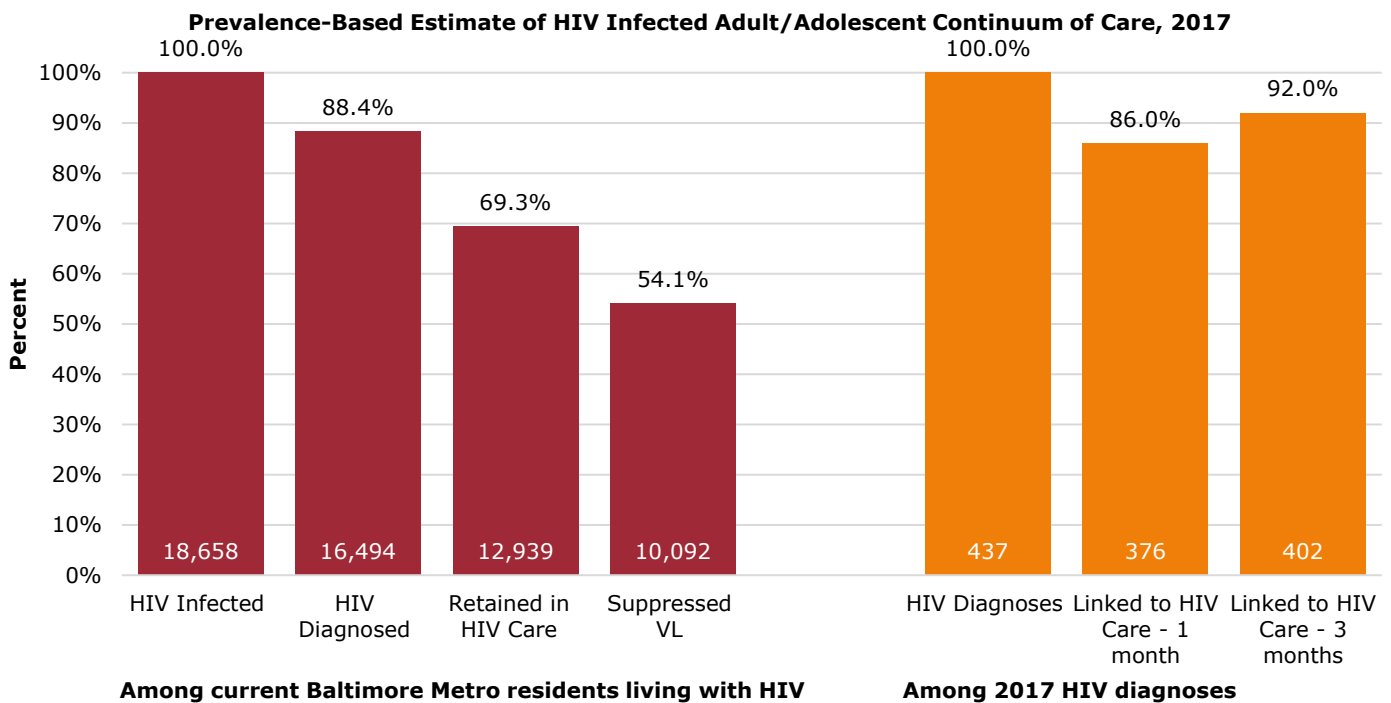
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of cases missing transmission category after multiple imputation

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 Baltimore Metro Residents, Reported through June 30, 2018

The prevalence-based Maryland Engagement in HIV Care Cascade (below) applies the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 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.



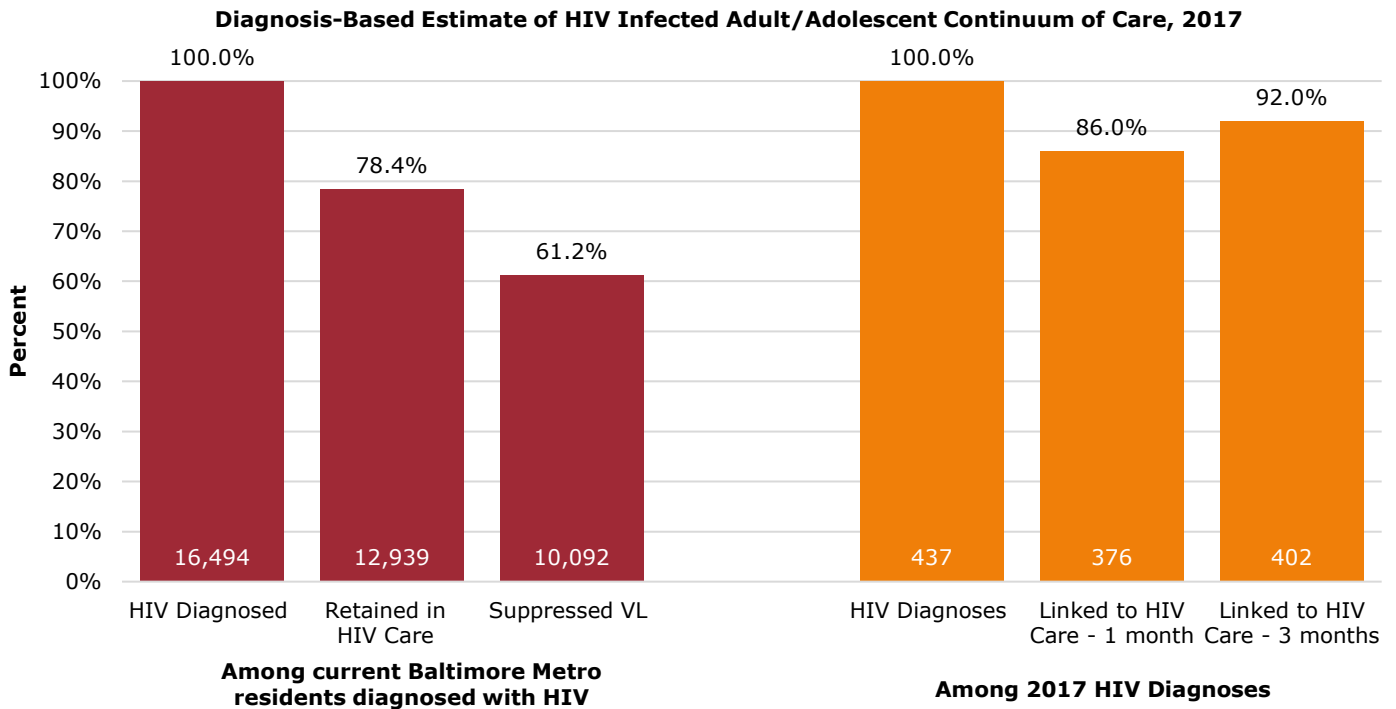
Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	18,658	100.0%	New HIV Diagnoses	437	100.0%
HIV Diagnosed	16,494	88.4%	Linked to HIV Care – 1 Month	376	86.0%
Retained in HIV Care	12,939	69.3%	Linked to HIV Care – 3 Months	402	92.0%
Suppressed VL	10,092	54.1%			

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

The diagnosis-based Baltimore Metro Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Baltimore Metro area residents to describe the number and percentage of persons living with HIV in the Baltimore Metro area 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	16,494	100.0%	New HIV Diagnoses	437	100.0%
Retained in HIV Care	12,939	78.4%	Linked to HIV Care – 1 Month	376	86.0%
Suppressed VL	10,092	61.2%	Linked to HIV Care – 3 Months	402	92.0%

Section IV – Adult/Adolescent Cases by Jurisdiction

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		Median Count
					% 1 mo.	% 3 mo.	%	%		
Anne Arundel	480,992	42	9.6%	8.7	85.7%	90.5%	26.2%	83.3%	332	
Baltimore City	517,321	231	52.9%	44.7	85.7%	91.8%	20.8%	88.3%	415	
Baltimore	703,196	112	25.6%	15.9	89.3%	93.8%	23.2%	92.9%	362	
Carroll	142,850	8	1.8%	5.6	87.5%	100.0%	***	100.0%	391	
Harford	212,766	24	5.5%	11.3	87.5%	91.7%	50.0%	87.5%	228	
Howard	266,287	20	4.6%	7.5	70.0%	85.0%	***	85.0%	214	
Queen Anne's	42,415	0	0.0%	0.0	--	--	--	--	--	
Total	2,365,826	437	100.0%	18.5	86.0%	92.0%	24.7%	89.0%	377	

*** 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
Anne Arundel	480,992	22	7.7%	4.6	5.8	50.0%
Baltimore City	517,321	175	61.0%	33.8	6.9	31.4%
Baltimore	703,196	60	20.9%	8.5	4.8	55.0%
Carroll	142,850	2	0.7%	1.4	***	***
Harford	212,766	12	4.2%	5.6	0.2	91.7%
Howard	266,287	15	5.2%	5.6	2.7	80.0%
Queen Anne's	42,415	1	0.3%	2.4	***	***
Total	2,365,826	287	100.0%	12.1	5.8	43.2%

*** 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)
Anne Arundel	480,992	568	6.9%	118.1	666	6.8%	138.5	1,234	6.9%	256.6	389
Baltimore City	517,321	5,585	68.2%	1,079.6	6,875	70.0%	1,329.0	12,460	69.2%	2,408.6	41
Baltimore	703,196	1,454	17.8%	206.8	1,611	16.4%	229.1	3,065	17.0%	435.9	229
Carroll	142,850	65	0.8%	45.5	76	0.8%	53.2	141	0.8%	98.7	1,013
Harford	212,766	201	2.5%	94.5	258	2.6%	121.3	459	2.5%	215.7	463
Howard	266,287	299	3.7%	112.3	292	3.0%	109.7	591	3.3%	221.9	450
Queen Anne's	42,415	14	0.2%	33.0	38	0.4%	89.6	52	0.3%	122.6	815
Total	2,365,826	8,186	100.0%	346.0	9,816	100.0%	414.9	18,002	100.0%	760.9	131

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)	
Anne Arundel	480,992	1,234	6.9%	256.6	389	1,303	7.9%	270.9	369	5.6%
Baltimore City	517,321	12,460	69.2%	2,408.6	41	10,453	63.4%	2,020.6	49	-16.1%
Baltimore	703,196	3,065	17.0%	435.9	229	3,420	20.7%	486.4	205	11.6%
Carroll	142,850	141	0.8%	98.7	1,013	140	0.8%	98.0	1,020	-0.7%
Harford	212,766	459	2.5%	215.7	463	488	3.0%	229.4	435	6.3%
Howard	266,287	591	3.3%	221.9	450	642	3.9%	241.1	414	8.6%
Queen Anne's	42,415	52	0.3%	122.6	815	48	0.3%	113.2	883	-7.7%
Total	2,365,826	18,002	100.0%	760.9	131	16,494	100.0%	697.2	143	-8.4%

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	No.	Adult/Adolescent Total Living HIV Cases						
		Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
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%
Carroll	140	85	60.7%	571	9.4%	15.3%	14.1%	61.2%
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%
Queen Anne's	48	38	79.2%	609	7.9%	15.8%	13.2%	63.2%
Total	16,494	11,626	70.5%	579	10.8%	13.0%	16.2%	59.9%

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	No.	Adult/Adolescent Total Living HIV Cases			
		Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
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
Carroll	140	91	65.0%	85.7%	28,480
Harford	488	345	70.7%	87.0%	10,910
Howard	642	474	73.8%	84.4%	5,951
Queen Anne's	48	39	81.3%	92.3%	35,130
Total	16,494	12,159	73.7%	83.0%	11,500

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)	168,134	1	0.2%	0.6	***	***	***	***	***
5-12 (Pediatric)	274,215	0	0.0%	0.0	--	--	--	--	--
13-19	244,301	29	6.6%	11.9	***	***	***	***	***
20-29	384,943	137	31.3%	35.6	83.2%	87.6%	19.0%	86.9%	414
30-39	387,831	108	24.7%	27.8	86.1%	96.3%	21.3%	91.7%	415
40-49	347,834	65	14.8%	18.7	89.2%	92.3%	32.3%	90.8%	284
50-59	401,519	62	14.2%	15.4	88.7%	95.2%	32.3%	85.5%	327
60+	599,398	36	8.2%	6.0	86.1%	88.9%	41.7%	94.4%	234
Total	2,808,175	438	100.0%	15.6	86.1%	92.0%	24.7%	89.0%	377

*** 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	168,134	3	0.0%	33.3%	1.8	56,044
5-12	274,215	23	0.1%	17.4%	8.4	11,922
13-19	244,301	91	0.6%	15.4%	37.2	2,684
20-29	384,943	1,519	9.2%	30.7%	394.6	253
30-39	387,831	2,784	16.9%	42.0%	717.8	139
40-49	347,834	3,352	20.3%	57.3%	963.7	103
50-59	401,519	5,379	32.6%	65.8%	1,339.7	74
60+	599,398	3,369	20.4%	68.0%	562.1	177
Total	2,808,175	16,520	100.0%	56.9%	588.3	169

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						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
13-19	91	57	62.6%	640	0.0%	5.3%	21.1%	73.7%
20-29	1,519	1,001	65.9%	559	12.3%	11.9%	17.0%	58.8%
30-39	2,784	1,884	67.7%	591	11.7%	11.6%	15.6%	61.0%
40-49	3,352	2,334	69.6%	580	11.7%	13.0%	16.1%	59.2%
50-59	5,379	3,940	73.2%	581	10.4%	13.6%	16.3%	59.7%
60+	3,369	2,410	71.5%	577	9.7%	13.9%	16.3%	60.2%
Total	16,494	11,626	70.5%	579	10.8%	13.0%	16.2%	59.9%

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			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
13-19	91	64	70.3%	71.9%	6,660
20-29	1,519	1,061	69.8%	65.0%	15,661
30-39	2,784	1,961	70.4%	77.4%	9,028
40-49	3,352	2,430	72.5%	82.3%	14,500
50-59	5,379	4,113	76.5%	86.3%	10,745
60+	3,369	2,530	75.1%	90.3%	6,913
Total	16,494	12,159	73.7%	83.0%	11,500

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	1,128,875	311	71.2%	27.5	86.2%	91.6%	24.1%	89.1%	379
Female	1,236,952	126	28.8%	10.2	85.7%	92.9%	26.2%	88.9%	372
Gender									
Male	--	302	69.1%	--	86.8%	91.7%	24.8%	89.7%	371
Female	--	126	28.8%	--	85.7%	92.9%	26.2%	88.9%	372
Transgender Woman	--	9	2.1%	--	66.7%	88.9%	0.0%	66.7%	499
Transgender Man	--	0	0.0%	--	0.0%	0.0%	0.0%	0.0%	--
Another Gender Identity	--	0	0.0%	--	0.0%	0.0%	0.0%	0.0%	--
Race/Ethnicity									
Hispanic	120,284	25	5.7%	20.8	92.0%	92.0%	20.0%	92.0%	392
Non-Hispanic	2,245,542	412	94.3%	18.3	85.7%	92.0%	25.0%	88.8%	377
American Indian/Alaska Native, only	5,951	0	0.0%	0.0	--	--	--	--	--
Asian, only	136,724	6	1.4%	4.4	100.0%	100.0%	***	83.3%	137
Black, only	677,058	313	71.6%	46.2	85.0%	90.4%	22.0%	87.9%	391
Native Hawaiian/Other Pacific Islander, only	1,172	0	0.0%	0.0	--	--	--	--	--
White, only	1,382,916	80	18.3%	5.8	87.5%	96.3%	31.3%	92.5%	301
Multiracial/Other	41,721	13	3.0%	31.2	84.6%	100.0%	***	92.3%	208
Total	2,365,826	437	100.0%	18.5	86.0%	92.0%	24.7%	89.0%	377
Country of Birth									
United States	2,072,605	375	85.8%	18.1	84.8%	91.5%	24.0%	88.3%	371
Foreign-Born	262,337	42	9.6%	16.0	92.9%	95.2%	33.3%	92.9%	379
Africa	--	19	4.3%	--	94.7%	94.7%	31.6%	94.7%	323
Asia	--	6	1.4%	--	100.0%	100.0%	50.0%	83.3%	136
Caribbean	--	5	1.1%	--	80.0%	100.0%	20.0%	100.0%	497
Central America	--	11	2.5%	--	90.9%	90.9%	27.3%	90.9%	483
Other	--	1	0.2%	--	100.0%	100.0%	100.0%	100.0%	113
Unknown	--	20	4.6%	--	95.0%	95.0%	20.0%	95.0%	413
Total	2,334,943	437	100.0%	18.7	86.0%	92.0%	24.7%	89.0%	377

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	1,128,875	10,689	64.8%	56.0%	946.9	105
Female	1,236,952	5,805	35.2%	58.8%	469.3	213
Gender						
Male	--	10,502	63.7%	56.2%	--	--
Female	--	5,797	35.1%	58.8%	--	--
Transgender Woman	--	187	1.1%	44.9%	--	--
Transgender Man	--	8	0.0%	37.5%	--	--
Another Gender Identity	--	0	0.0%	0.0%	--	--
Race/Ethnicity						
Hispanic	120,284	746	4.5%	54.2%	620.2	161
Non-Hispanic	2,245,542	15,748	95.5%	57.1%	701.3	142
American Indian/Alaska Native, only	5,951	6	0.0%	50.0%	100.8	991
Asian, only	136,724	88	0.5%	39.8%	64.4	1,553
Black, only	677,058	12,422	75.3%	57.7%	1,834.7	54
Native Hawaiian/Other Pacific Islander, only	1,172	1	0.0%	0.0%	85.3	1,171
White, only	1,382,916	2,214	13.4%	52.5%	160.1	624
Multiracial/Other	41,721	1,017	6.2%	61.6%	2,437.6	41
Total	2,365,826	16,494	100.0%	57.0%	697.2	143
Country of Birth						
United States	2,072,605	15,256	92.5%	57.9%	736.1	135
Foreign-Born	262,337	780	4.7%	51.9%	297.3	336
Africa	--	421	2.6%	50.4%	--	--
Asia	--	97	0.6%	55.7%	--	--
Caribbean	--	65	0.4%	50.8%	--	--
Central America	--	134	0.8%	53.0%	--	--
Other	--	63	0.4%	55.6%	--	--
Unknown	--	458	2.8%	36.7%	--	--
Total	2,334,943	16,494	100.0%	57.0%	706.4	141

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						350-499	500+
		No. with Test	% with Test	Median Count	<200	200-349			
Sex at Birth									
Male	10,689	7,396	69.2%	562	10.8%	14.0%	16.7%	58.5%	
Female	5,805	4,230	72.9%	625	10.9%	11.3%	15.4%	62.4%	
Gender									
Male	10,502	***	***	***	***	***	***	***	
Female	5,797	***	***	***	***	***	***	***	
Transgender Woman	187	***	***	***	***	***	***	***	
Transgender Man	8	***	***	***	***	***	***	***	
Another Gender Identity	0	--	--	--	--	--	--	--	
Race/Ethnicity									
Hispanic	746	532	71.3%	572	10.0%	13.3%	17.5%	59.2%	
Non-Hispanic	15,748	11,094	70.4%	580	10.9%	13.0%	16.2%	59.9%	
American Indian/Alaska Native, only	6	***	***	***	***	***	***	***	
Asian, only	88	63	71.6%	567	4.8%	19.0%	12.7%	63.5%	
Black, only	12,422	8,752	70.5%	575	11.1%	13.3%	16.4%	59.2%	
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***	***	***	***	
White, only	2,214	1,520	68.7%	609	8.9%	12.6%	14.4%	64.1%	
Multiracial/Other	1,017	757	74.4%	573	13.2%	10.4%	17.0%	59.3%	
Country of Birth									
United States	15,256	10,760	70.5%	580	11.2%	13.0%	16.0%	59.8%	
Foreign-Born	780	564	72.3%	574	6.9%	12.1%	19.1%	61.9%	
Africa	421	295	70.1%	582	7.1%	10.8%	20.0%	62.0%	
Asia	97	69	71.1%	561	4.3%	15.9%	17.4%	62.3%	
Caribbean	65	49	75.4%	631	4.1%	8.2%	20.4%	67.3%	
Central America	134	106	79.1%	554	10.4%	13.2%	17.0%	59.4%	
Other	63	45	71.4%	548	4.4%	15.6%	20.0%	60.0%	
Unknown	458	302	65.9%	554	6.3%	14.9%	18.2%	60.6%	
Total	16,494	11,626	70.5%	579	10.8%	13.0%	16.2%	59.9%	

*** 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			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Sex at Birth					
Male	10,689	7,682	71.9%	83.6%	13,380
Female	5,805	4,477	77.1%	81.9%	9,296
Gender					
Male	10,502	7,555	71.9%	83.9%	13,356
Female	5,797	4,471	77.1%	81.9%	9,313
Transgender Woman	187	127	67.9%	68.5%	16,599
Transgender Man	8	6	75.0%	83.3%	2,148
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	746	541	72.5%	83.5%	13,425
Non-Hispanic	15,748	11,618	73.8%	82.9%	11,160
American Indian/Alaska Native, only	6	***	***	***	***
Asian, only	88	66	75.0%	92.4%	114,570
Black, only	12,422	9,183	73.9%	81.8%	10,576
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***
White, only	2,214	1,594	72.0%	88.8%	18,725
Multiracial/Other	1,017	773	76.0%	83.4%	15,969
Country of Birth					
United States	15,256	11,284	74.0%	82.6%	11,798
Foreign-Born	780	564	72.3%	89.0%	7,823
Africa	421	296	70.3%	89.5%	14,073
Asia	97	71	73.2%	94.4%	60,203
Caribbean	65	50	76.9%	90.0%	597
Central America	134	102	76.1%	82.4%	10,207
Other	63	45	71.4%	91.1%	33,061
Unknown	458	311	67.9%	84.6%	4,022
Total	16,494	12,159	73.7%	83.0%	11,500

*** 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

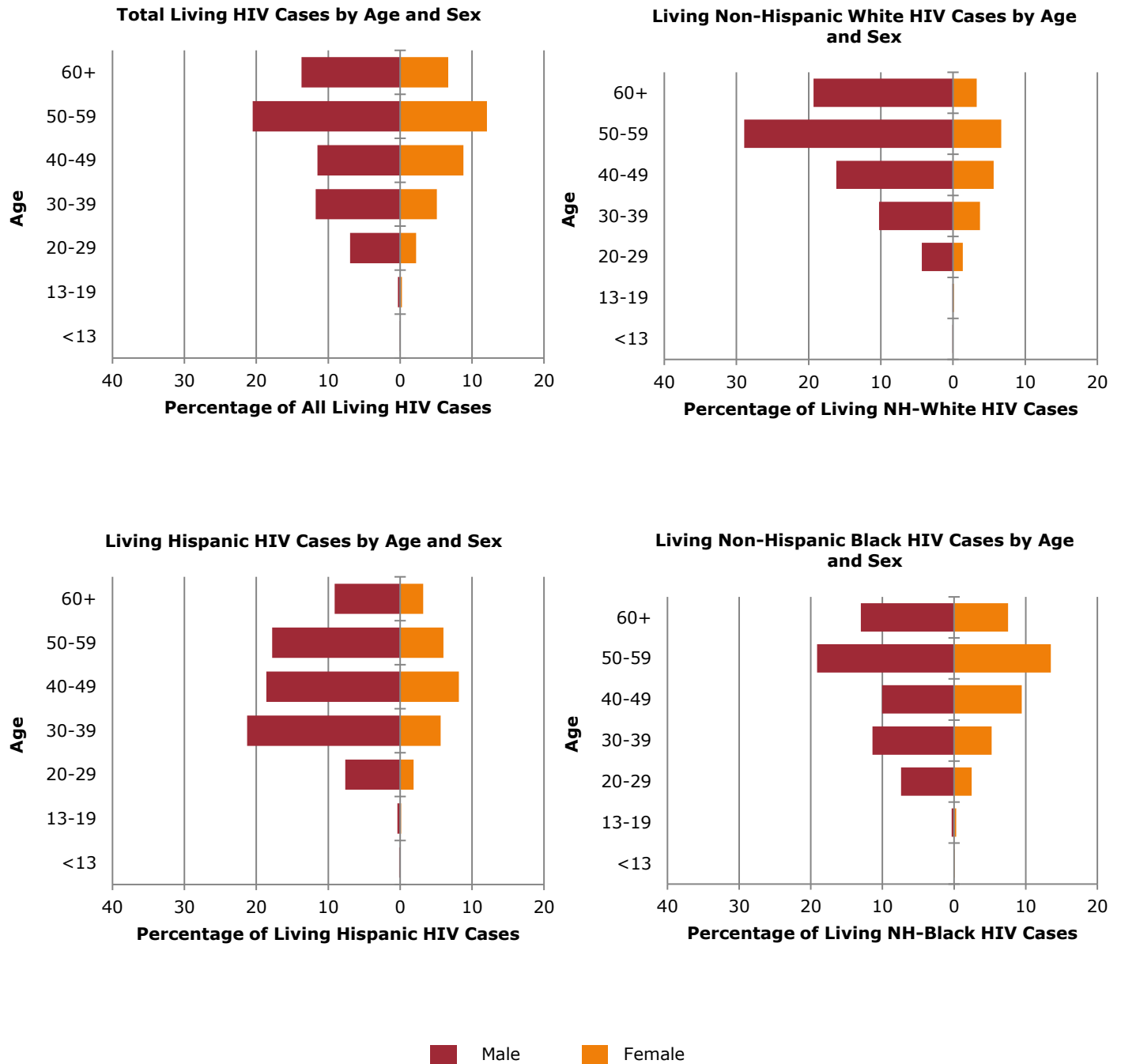


Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018

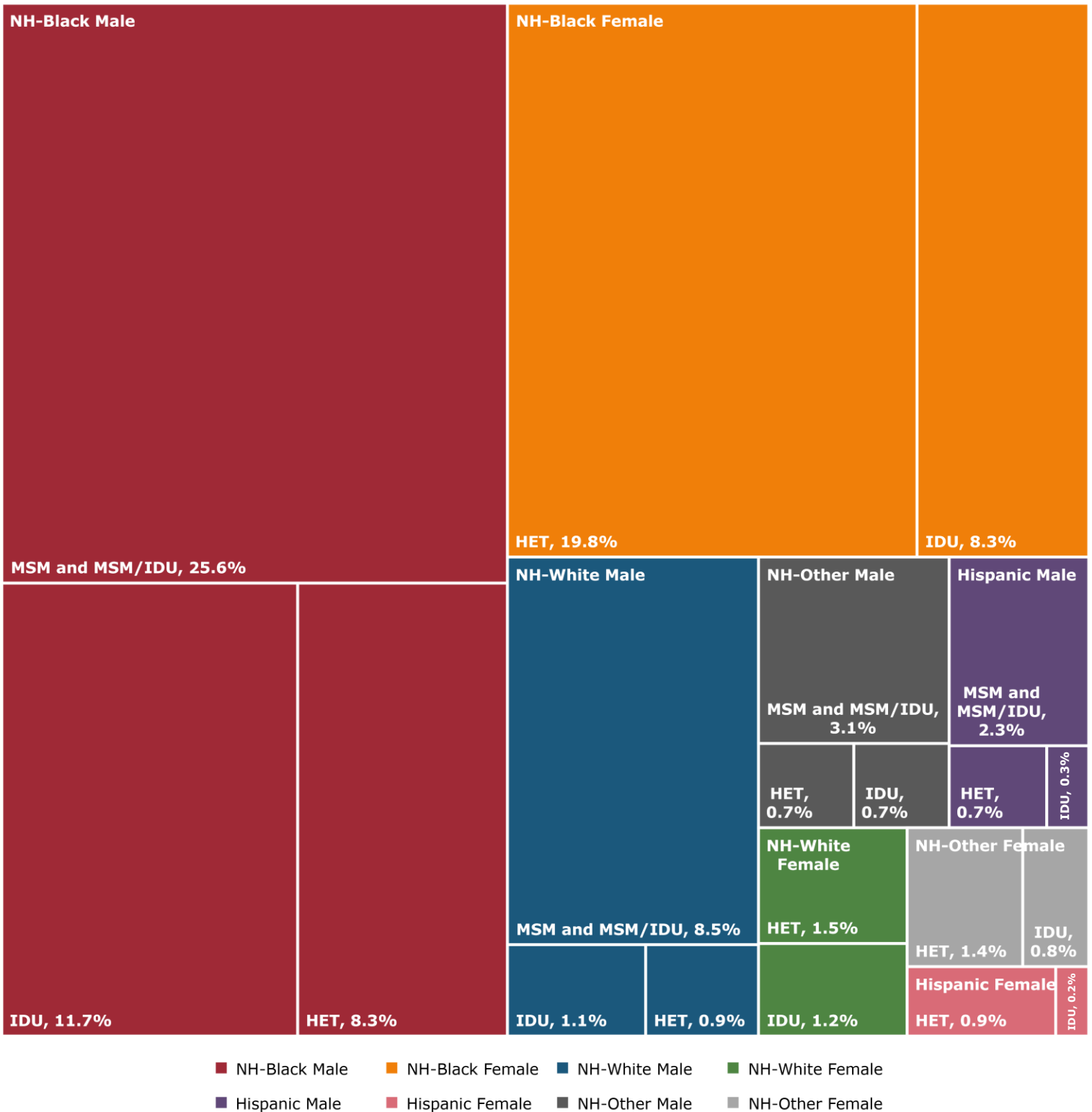
Age on December 31, 2017		Total Living Male HIV Cases				Total Males by Age Group
		Race/Ethnicity				
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	22,928	71,024	105,070	26,257	225,279
	Cases	1	8	2	1	12
	Rate	4.4	11.3	1.9	3.8	5.3
	Ratio (1 in X)	22,928	8,878	52,534	26,257	18,773
13-19	Population	9,370	39,883	62,544	12,804	124,601
	Cases	3	41	2	3	49
	Rate	32.0	102.8	3.2	23.4	39.3
	Ratio (1 in X)	3,123	972	31,272	4,267	2,542
20-29	Population	13,444	59,945	102,386	17,019	192,794
	Cases	57	920	96	77	1,150
	Rate	424.0	1,534.7	93.8	452.4	596.5
	Ratio (1 in X)	235	65	1,066	221	167
30-39	Population	16,109	50,471	103,934	17,730	188,244
	Cases	159	1,419	227	136	1,941
	Rate	987.0	2,811.5	218.4	767.1	1,031.1
	Ratio (1 in X)	101	35	457	130	96
40-49	Population	11,782	46,645	93,306	15,287	167,020
	Cases	139	1,248	358	154	1,899
	Rate	1,179.8	2,675.5	383.7	1,007.4	1,137.0
	Ratio (1 in X)	84	37	260	99	87
50-59	Population	6,949	50,788	122,770	11,616	192,123
	Cases	133	2,381	641	230	3,385
	Rate	1,913.9	4,688.1	522.1	1,980.0	1,761.9
	Ratio (1 in X)	52	21	191	50	56
60+	Population	5,026	57,588	187,850	13,629	264,093
	Cases	68	1,621	428	148	2,265
	Rate	1,353.0	2,814.8	227.8	1,085.9	857.7
	Ratio (1 in X)	73	35	438	92	116
Total Males by Race/Ethnicity	Population	85,608	376,344	777,860	114,342	1,354,154
	Cases	560	7,638	1,754	749	10,701
	Rate	654.1	2,029.5	225.5	655.1	790.2
	Ratio (1 in X)	152	49	443	152	126

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

Age on December 31, 2017		Total Living Female HIV Cases				Total Females by Age Group
		Race/Ethnicity				
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	21,766	68,966	100,444	25,893	217,069
	Cases	0	13	0	1	14
	Rate	0.0	18.8	0.0	3.9	6.4
	Ratio (1 in X)	--	5,305	--	25,893	15,504
13-19	Population	8,861	39,222	58,982	12,636	119,701
	Cases	1	37	3	1	42
	Rate	11.3	94.3	5.1	7.9	35.1
	Ratio (1 in X)	8,861	1,060	19,660	12,635	2,850
20-29	Population	12,314	63,798	98,360	17,677	192,149
	Cases	14	305	30	20	369
	Rate	113.7	478.1	30.5	113.1	192.0
	Ratio (1 in X)	879	209	3,278	883	520
30-39	Population	13,699	62,435	103,284	20,169	199,587
	Cases	42	654	83	64	843
	Rate	306.6	1,047.5	80.4	317.3	422.4
	Ratio (1 in X)	326	95	1,244	315	236
40-49	Population	10,364	56,773	96,290	17,387	180,814
	Cases	61	1,177	125	90	1,453
	Rate	588.6	2,073.2	129.8	517.6	803.6
	Ratio (1 in X)	169	48	770	193	124
50-59	Population	6,393	62,070	127,796	13,137	209,396
	Cases	45	1,681	148	120	1,994
	Rate	703.9	2,708.2	115.8	913.5	952.3
	Ratio (1 in X)	142	36	863	109	105
60+	Population	5,973	87,441	225,413	16,478	335,305
	Cases	24	938	73	69	1,104
	Rate	401.8	1,072.7	32.4	418.7	329.3
	Ratio (1 in X)	248	93	3,087	238	303
Total Females by Race/Ethnicity	Population	79,370	440,705	810,569	123,377	1,454,021
	Cases	187	4,805	462	365	5,819
	Rate	235.6	1,090.3	57.0	295.8	400.2
	Ratio (1 in X)	424	91	1,754	338	249

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)	229	52.4%	86.5%	91.4%	21.6%	88.5%	416
Injection Drug Use (IDU)	43	9.9%	79.2%	88.9%	***	81.7%	285
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	7	1.6%	85.3%	85.3%	***	100.0%	406
Heterosexual Contact (HET)	158	36.2%	87.3%	93.9%	27.9%	91.3%	348
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	437	100.0%	86.0%	92.0%	24.7%	89.0%	377
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	229	73.6%	86.5%	91.4%	21.6%	88.5%	416
Injection Drug Use (IDU)	21	6.8%	93.9%	94.8%	***	90.1%	330
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	7	2.2%	85.3%	85.3%	***	100.0%	406
Heterosexual Contact (HET)	54	17.3%	81.8%	92.0%	33.6%	89.6%	305
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	311	100.0%	86.2%	91.6%	24.1%	89.1%	379
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	22	17.4%	64.8%	83.1%	32.0%	73.5%	222
Heterosexual Contact (HET)	104	82.6%	90.1%	94.9%	25.0%	92.1%	377
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	126	100.0%	85.7%	92.9%	26.2%	88.9%	372

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)	5,790	35.1%	47.2%
Injection Drug Use (IDU)	4,016	24.3%	71.6%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	743	4.5%	68.1%
Heterosexual Contact (HET)	5,642	34.2%	54.9%
Perinatal Transmission	237	1.4%	63.7%
Other Exposures	31	0.2%	90.3%
No Estimated or Reported Exposure	35	0.2%	31.4%
Total	16,494	100.0%	57.0%
Male Estimated or Reported Exposure Category			
Male-to-male Sexual Contact (MSM)	5,790	54.2%	47.2%
Injection Drug Users (IDU)	2,283	21.4%	72.2%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	743	7.0%	68.1%
Heterosexual Contact (HET)	1,739	16.3%	58.4%
Perinatal Transmission	100	0.9%	67.0%
Other Exposures	18	0.2%	88.9%
No Estimated or Reported Exposure	16	0.1%	31.3%
Total	10,689	100.0%	56.0%
Female Estimated or Reported Exposure Category			
Injection Drug Use (IDU)	1,733	29.9%	70.9%
Heterosexual Contact (HET)	3,903	67.2%	53.4%
Perinatal Transmission	137	2.4%	61.3%
Other Exposures	13	0.2%	92.3%
No Estimated or Reported Exposure	19	0.3%	31.6%
Total	5,805	100.0%	58.8%

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)	352	47.2%	3,682	29.6%	1,310	59.2%
Injection Drug Use (IDU)	86	11.5%	3,303	26.6%	381	17.2%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	36	4.9%	546	4.4%	95	4.3%
Heterosexual Contact (HET)	265	35.5%	4,641	37.4%	400	18.1%
Perinatal Transmission	4	0.5%	209	1.7%	9	0.4%
Other Exposures	1	0.1%	11	0.1%	17	0.8%
No Estimated or Reported Exposure	2	0.3%	30	0.2%	1	0.0%
Total	746	100.0%	12,422	100.0%	2,214	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	352	63.0%	3,682	48.3%	1,310	74.8%
Injection Drug Use (IDU)	54	9.6%	1,930	25.3%	181	10.4%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	36	6.5%	546	7.2%	95	5.4%
Heterosexual Contact (HET)	114	20.4%	1,370	18.0%	145	8.3%
Perinatal Transmission	2	0.4%	85	1.1%	6	0.3%
Other Exposures	1	0.2%	3	0.0%	13	0.7%
No Estimated or Reported Exposure	0	0.0%	13	0.2%	1	0.1%
Total	559	100.0%	7,630	100.0%	1,752	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	32	17.2%	1,373	28.6%	200	43.3%
Heterosexual Contact (HET)	151	80.7%	3,270	68.2%	255	55.2%
Perinatal Transmission	2	1.1%	124	2.6%	3	0.6%
Other Exposures	0	0.0%	8	0.2%	4	0.9%
No Estimated or Reported Exposure	2	1.1%	17	0.4%	0	0.0%
Total	187	100.0%	4,792	100.0%	462	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						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
Male-to-male Sexual Contact (MSM)	5,790	3,942	68.1%	603	8.1%	11.7%	15.6%	64.5%
Injection Drug Use (IDU)	4,016	2,985	74.3%	526	14.6%	15.5%	16.9%	52.9%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	743	559	75.3%	537	12.1%	15.7%	17.3%	54.9%
Heterosexual Contact (HET)	5,642	3,947	70.0%	602	9.8%	12.0%	16.2%	61.9%
Perinatal Transmission	237	155	65.4%	469	25.8%	12.9%	16.1%	45.2%
Other Exposures	31	20	64.5%	553	5.0%	20.0%	20.0%	55.0%
No Estimated or Reported Exposure	35	17	48.6%	554	29.4%	5.9%	11.8%	52.9%
Total	16,494	11,626	70.5%	579	10.8%	13.0%	16.2%	59.9%

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			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Male-to-male Sexual Contact (MSM)	5,790	4,153	71.7%	84.0%	12,664
Injection Drug Use (IDU)	4,016	3,085	76.8%	81.9%	16,341
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	743	567	76.3%	84.1%	14,430
Heterosexual Contact (HET)	5,642	4,147	73.5%	83.6%	7,970
Perinatal Transmission	237	167	70.5%	58.7%	6,080
Other Exposures	31	21	67.7%	95.2%	43,863
No Estimated or Reported Exposure	35	19	54.3%	57.9%	8,450
Total	16,494	12,159	73.7%	83.0%	11,500

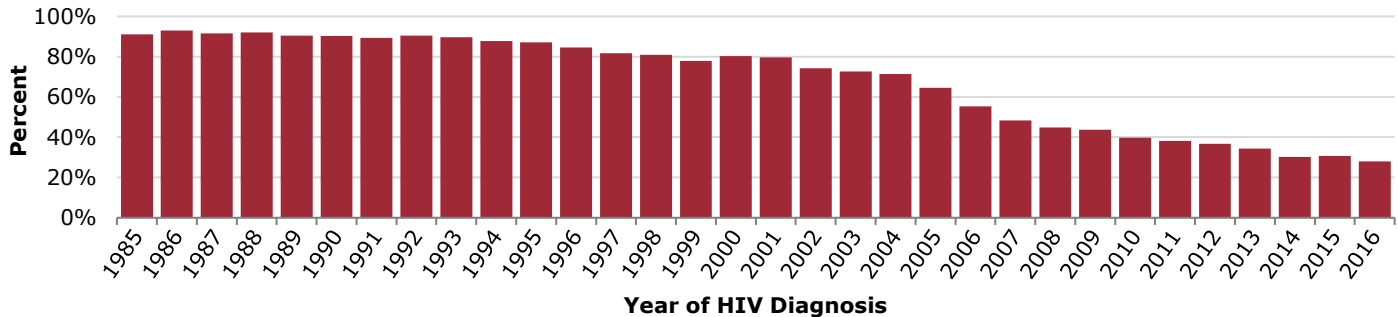
Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

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

Percent with AIDS by December 31, 2017

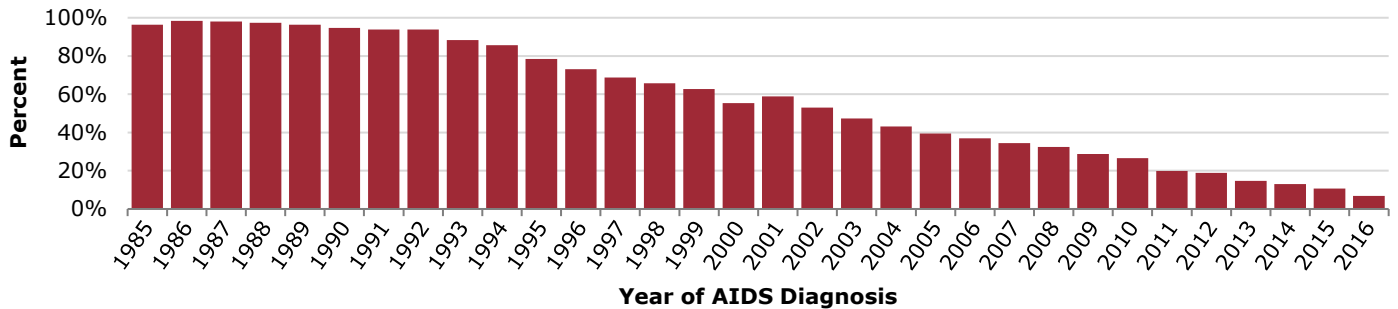


Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses							
	No.	Reported AIDS Diagnoses		Mean Years from HIV to AIDS	Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS		1 Year	2 Years	5 Years	10 Years
<1985	234	227	97.0%	7.2	34.2%	34.2%	37.6%	68.4%
1985	446	406	91.0%	6.6	26.0%	27.6%	35.4%	74.9%
1986	589	547	92.9%	5.5	33.3%	34.3%	46.5%	79.5%
1987	754	691	91.6%	4.7	33.4%	36.9%	54.0%	82.4%
1988	1,135	1,045	92.1%	3.9	38.2%	42.1%	63.5%	85.6%
1989	1,434	1,296	90.4%	3.7	38.1%	43.6%	66.9%	83.1%
1990	1,503	1,356	90.2%	3.0	44.1%	51.0%	73.1%	84.6%
1991	1,708	1,525	89.3%	2.7	46.7%	56.0%	73.8%	84.0%
1992	1,651	1,494	90.5%	2.7	50.6%	58.8%	75.3%	84.1%
1993	1,525	1,368	89.7%	2.3	53.9%	62.0%	76.3%	85.4%
1994	1,370	1,201	87.7%	2.4	53.6%	61.5%	74.2%	82.4%
1995	1,337	1,165	87.1%	2.3	56.9%	62.5%	72.5%	82.3%
1996	1,231	1,040	84.5%	2.0	59.2%	64.2%	71.6%	80.3%
1997	1,260	1,030	81.7%	2.1	55.0%	60.1%	68.8%	77.4%
1998	1,259	1,018	80.9%	2.1	55.3%	59.1%	68.1%	76.3%
1999	1,154	899	77.9%	1.8	55.7%	59.8%	68.1%	74.7%
2000	1,100	883	80.3%	1.8	55.8%	60.2%	69.5%	77.1%
2001	1,199	956	79.7%	1.6	58.2%	62.1%	71.1%	76.5%
2002	1,399	1,040	74.3%	1.8	53.3%	56.7%	64.1%	70.8%
2003	1,215	882	72.6%	1.5	54.0%	57.8%	63.6%	70.1%
2004	1,205	860	71.4%	1.6	51.5%	55.5%	62.1%	68.8%
2005	1,246	804	64.5%	1.6	46.3%	49.4%	56.1%	63.0%
2006	1,323	731	55.3%	1.7	38.1%	40.4%	47.5%	54.2%
2007	1,181	572	48.4%	2.1	29.2%	32.3%	40.1%	47.3%
2008	1,129	506	44.8%	1.8	28.3%	31.6%	39.1%	--
2009	922	404	43.8%	1.7	27.9%	30.7%	38.7%	--
2010	933	371	39.8%	1.5	25.7%	28.5%	36.0%	--
2011	715	273	38.2%	1.1	27.0%	31.0%	35.8%	--
2012	677	249	36.8%	0.9	28.4%	30.4%	35.9%	--
2013	617	212	34.4%	0.6	28.8%	30.3%	--	--
2014	582	176	30.2%	0.5	25.1%	27.8%	--	--
2015	541	166	30.7%	0.4	26.1%	29.2%	--	--
2016	518	145	28.0%	0.3	25.7%	--	--	--
Total	35,092	25,538	72.8%	2.5	44.3%	48.9%	59.6%	68.8%

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

Percent Dead by December 31, 2017



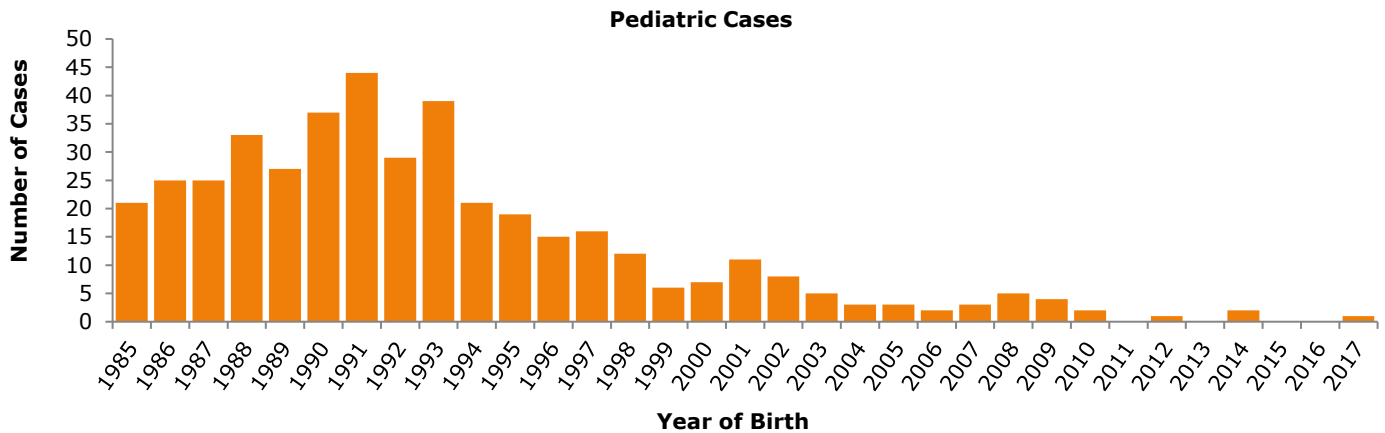
Year of AIDS Diagnosis	Adult/Adolescent Reported AIDS Diagnoses							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	77	73	94.8%	2.5	51.9%	32.5%	15.6%	13.0%
1985	107	103	96.3%	1.9	43.0%	22.4%	9.3%	7.5%
1986	175	172	98.3%	2.6	54.3%	36.0%	14.9%	8.6%
1987	266	261	98.1%	2.2	61.7%	33.5%	11.3%	5.3%
1988	437	425	97.3%	2.5	59.3%	39.4%	14.2%	6.9%
1989	561	540	96.3%	2.6	60.8%	39.2%	15.5%	8.0%
1990	786	744	94.7%	2.9	65.8%	46.4%	20.0%	11.6%
1991	978	918	93.9%	2.9	67.7%	46.2%	18.2%	12.3%
1992	1,350	1,267	93.9%	3.1	70.2%	48.6%	19.9%	13.9%
1993	1,545	1,365	88.3%	3.8	77.5%	55.2%	32.4%	20.9%
1994	1,377	1,180	85.7%	4.0	77.1%	58.2%	37.7%	23.7%
1995	1,398	1,096	78.4%	4.9	78.3%	66.1%	49.2%	35.1%
1996	1,301	951	73.1%	5.4	81.9%	74.7%	57.3%	41.3%
1997	1,130	777	68.8%	5.5	85.3%	77.3%	60.8%	44.5%
1998	1,030	677	65.7%	5.6	87.0%	80.1%	64.0%	47.3%
1999	1,010	633	62.7%	5.3	86.9%	79.7%	64.1%	48.5%
2000	892	494	55.4%	4.8	85.9%	80.3%	65.1%	52.9%
2001	1,008	594	58.9%	4.6	85.6%	76.9%	62.4%	50.2%
2002	1,054	560	53.1%	5.1	88.1%	82.4%	69.9%	56.6%
2003	945	447	47.3%	3.8	83.7%	78.1%	66.9%	57.7%
2004	955	412	43.1%	4.1	87.6%	83.0%	72.3%	61.9%
2005	884	349	39.5%	3.9	88.2%	83.3%	74.0%	64.6%
2006	814	301	37.0%	3.6	88.5%	83.8%	74.6%	64.7%
2007	612	211	34.5%	3.4	88.4%	85.0%	76.3%	65.8%
2008	599	194	32.4%	2.8	88.8%	83.8%	75.0%	--
2009	530	152	28.7%	2.9	90.8%	86.8%	77.7%	--
2010	553	147	26.6%	2.7	90.2%	87.3%	79.9%	--
2011	462	92	19.9%	2.4	93.9%	90.9%	82.3%	--
2012	493	93	18.9%	1.6	90.5%	88.4%	81.1%	--
2013	450	66	14.7%	1.6	94.2%	90.2%	--	--
2014	324	42	13.0%	0.8	91.4%	88.3%	--	--
2015	346	37	10.7%	0.7	92.5%	90.5%	--	--
2016*	305	21	6.9%	0.2	93.4%	--	--	--
Total	24,754	15,394	62.2%	3.9	81.5%	70.8%	55.0%	44.9%

*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	26	2	1	0	--
1985	21	7	5	1	9
1986	25	8	6	4	13
1987	25	16	10	5	24
1988	33	23	15	4	43
1989	27	29	19	5	67
1990	37	36	16	5	99
1991	44	38	26	8	128
1992	29	47	29	9	165
1993	39	45	25	12	198
1994	21	30	19	12	216
1995	19	19	15	12	222
1996	15	22	11	14	231
1997	16	10	7	6	235
1998	12	15	10	3	246
1999	6	14	6	5	256
2000	7	7	2	0	263
2001	11	9	8	3	268
2002	8	6	5	4	270
2003	5	2	2	2	269
2004	3	5	2	3	272
2005	3	1	1	0	274
2006	2	6	3	2	279
2007	3	31	5	4	306
2008	5	8	7	3	311
2009	4	6	3	2	316
2010	2	1	7	4	313
2011	0	2	5	4	312
2012	1	2	3	3	311
2013	0	1	11	1	311
2014	2	2	4	0	314
2015	0	0	2	3	312
2016	0	1	4	2	308
2017	1	1	2	2	307
Total	452	452	296	147	--

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
Anne Arundel	1	4.5%
Baltimore City	13	59.1%
Baltimore	6	27.3%
Carroll	0	0.0%
Harford	2	9.1%
Howard	0	0.0%
Queen Anne’s	0	0.0%
Total	22	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	9	40.9%
Female	13	59.1%
Race/Ethnicity		
Hispanic	0	0.0%
Non-Hispanic	22	100.0%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	20	90.9%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	1	4.5%
Multiracial/Other	1	4.5%
Total	22	100.0%

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.

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

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

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: 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.

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.

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.

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: Additional 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.