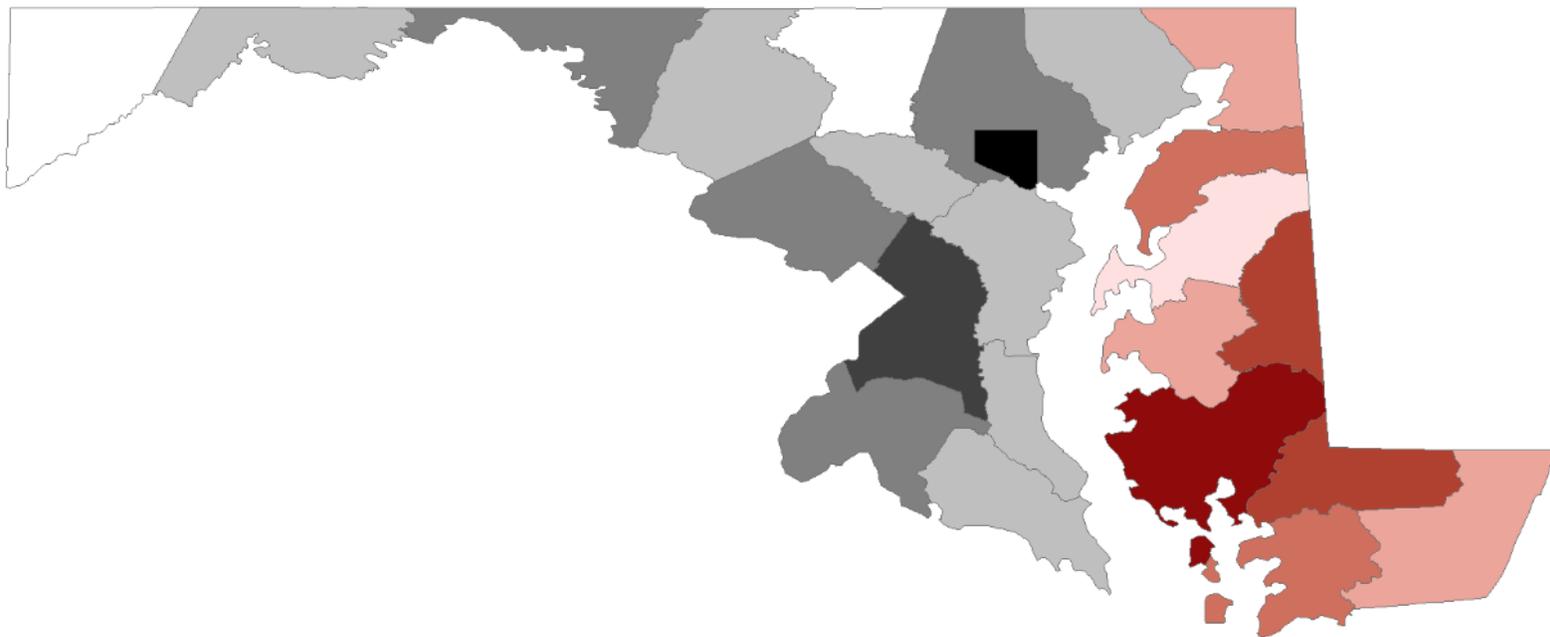


2015



Eastern Region HIV Annual Epidemiological Profile

Data reported through June 30, 2016

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Epidemiology and Outbreak Response Bureau
Prevention and Health Promotion Administration
Maryland Department of Health and Mental Hygiene
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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 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 DHMH Form 1140. Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the State Health Department by mailing DHMH Form 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 DHMH Form 1140. Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the State Health Department to establish electronic reporting.
- Laboratory Chiefs 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 State Health Department, by mailing DHMH Form 4492. Laboratories are encouraged to contact the State Health Department to establish electronic reporting.

Reporting forms and instructions are available on our website:

<http://phpa.dhmh.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 Health Department, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene 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 6/30/2016. Nationally, it has been estimated that 13.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 16.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. It is important to note that surveillance is an ongoing systematic collection, analysis, interpretation, and dissemination of laboratory data. Furthermore, laboratory data are only available for cases receiving medical care, usually only at facilities in Maryland, and only includes test results that have been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department. Caution should be exercised in using the number of living HIV cases without AIDS and in interpreting trends in the number of reported HIV diagnoses.

In addition to providing estimates of prevalent cases by residence at HIV diagnosis, this epidemiological profile includes estimates for HIV cases whose current residence as of 6/30/2016 was in Maryland. Current residence data are restricted to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2016. 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 be residents of Maryland but have fallen out of care during the most recent seven years. Current residence utilizes addresses as recent as 2016 but uses laboratory data from 2015 to allow for laboratory reporting.

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 new and old 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, the 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 2015 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 01/01/2015-12/31/2015, as reported by name through 6/30/2016.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 6/30/2016 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2015 as reported by name through 6/30/2016.

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. 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. 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 "in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health and Mental Hygiene's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2016. The Eastern Region consists of the following jurisdictions: Caroline, Cecil, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico and Worcester.

Population data by sex, age, and race/ethnicity are from the July 1, 2015 U.S. Census Estimates and by country-of-birth from the 2014 American Community Survey (note the difference in total population due to 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 Centers for Disease Control and Prevention's 2016 HIV Surveillance Supplemental Report published July 2016. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used 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

Figures in 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.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

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 have sex with men and report injection drug use constitutes a separate transmission category.

MSM (Men who have Sex with Men): 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.

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

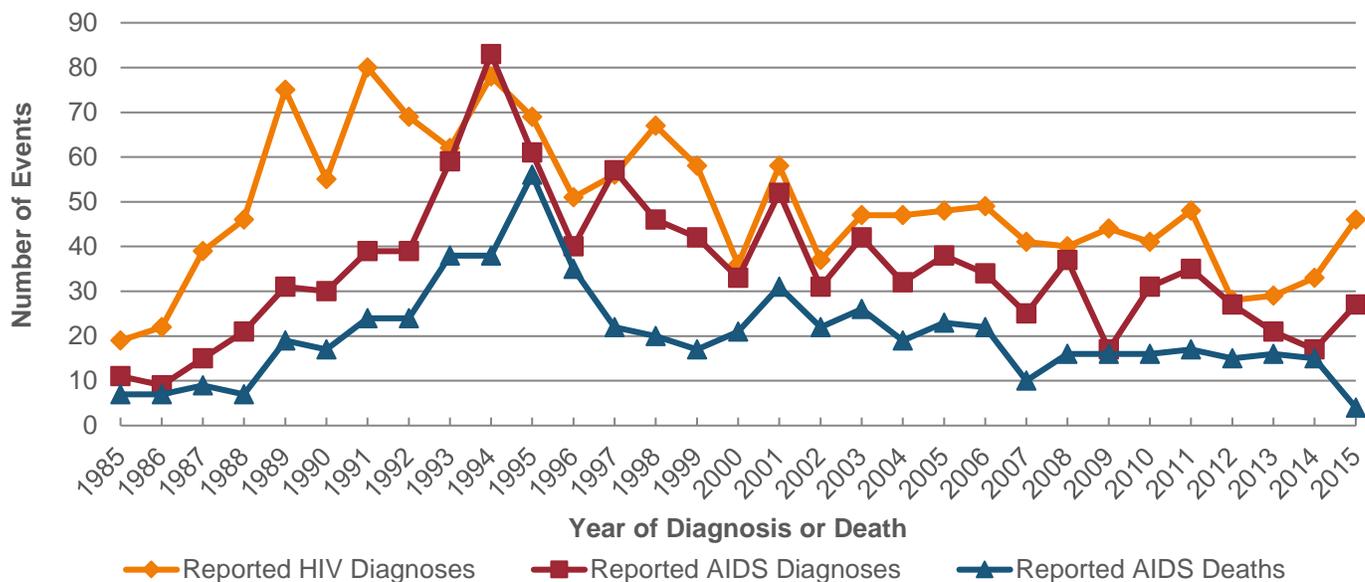
Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Section II – Trends 1985-2015

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2015, Reported through 6/30/2016

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 2015 as Reported through 6/30/2016



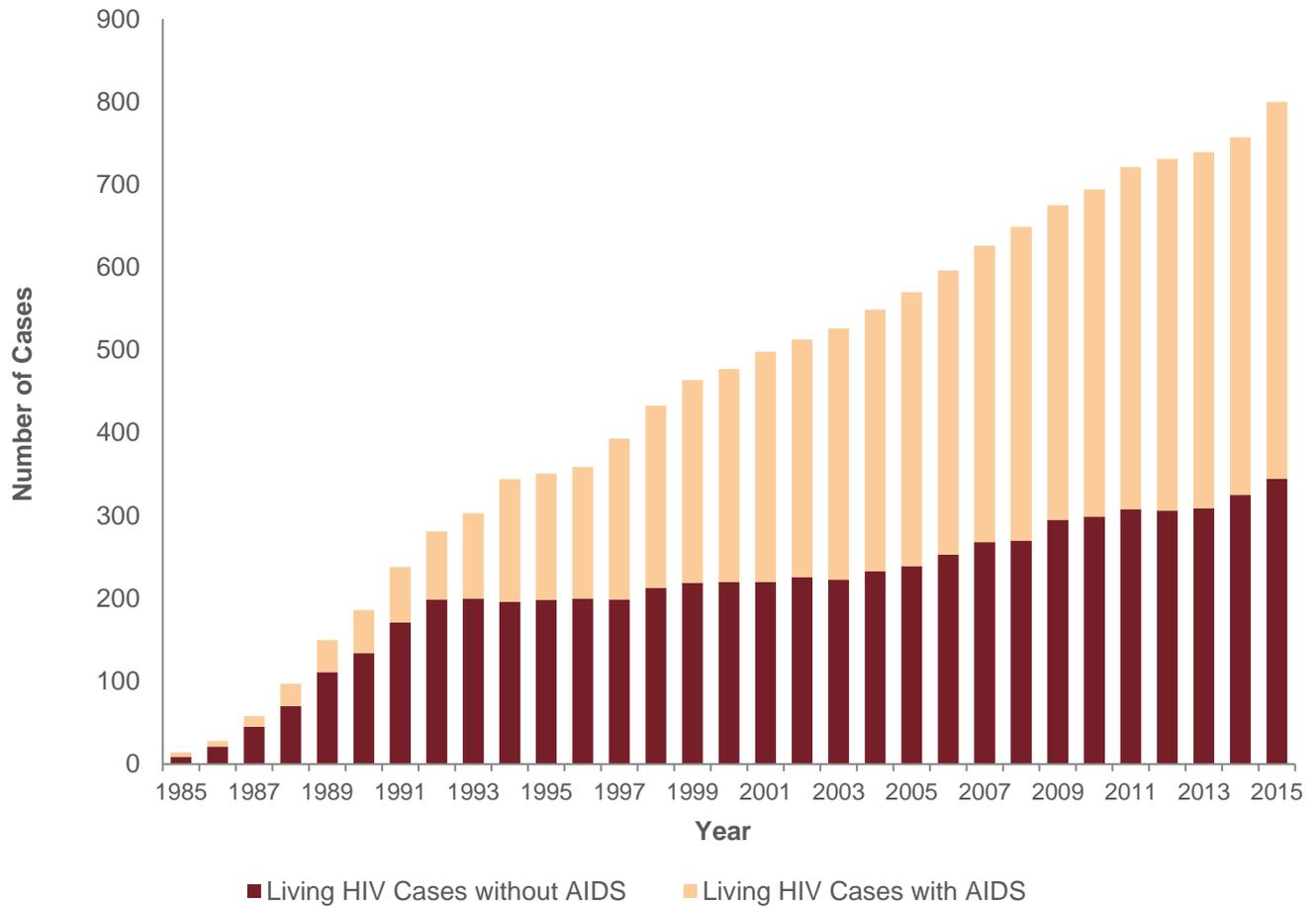
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

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	8	7	6	2000	36	33	21
1985	19	11	7	2001	58	52	31
1986	22	9	7	2002	37	31	22
1987	39	15	9	2003	47	42	26
1988	46	21	7	2004	47	32	19
1989	75	31	19	2005	48	38	23
1990	55	30	17	2006	49	34	22
1991	80	39	24	2007	41	25	10
1992	69	39	24	2008	40	37	16
1993	62	59	38	2009	44	17	16
1994	78	83	38	2010	41	31	16
1995	69	61	56	2011	48	35	17
1996	51	40	35	2012	28	27	15
1997	56	57	22	2013	29	21	16
1998	67	46	20	2014	33	17	15*
1999	58	42	17	2015	46	27	4*
				TOTAL	1,526	1,089	635

*2014-2015 reported AIDS deaths are preliminary.

Figure 2 – Trends in Living HIV Cases, 1985-2015, Reported through 6/30/2016

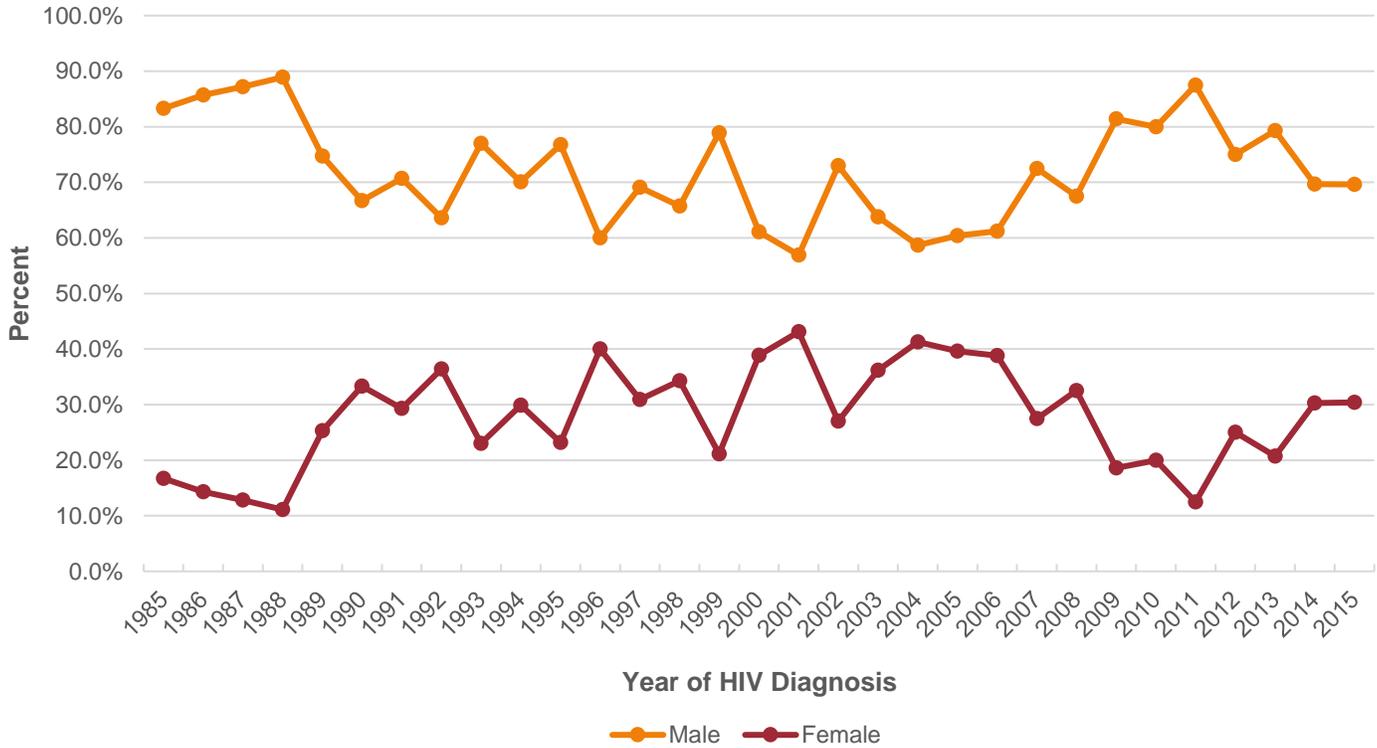
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2015, as Reported through 6/30/2016



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	9	5	14	2000	220	257	477
1986	21	7	28	2001	220	278	498
1987	45	13	58	2002	226	287	513
1988	70	27	97	2003	223	303	526
1989	111	39	150	2004	233	316	549
1990	134	52	186	2005	239	331	570
1991	171	67	238	2006	253	343	596
1992	199	82	281	2007	268	358	626
1993	200	103	303	2008	270	379	649
1994	196	148	344	2009	295	380	675
1995	198	153	351	2010	299	395	694
1996	200	159	359	2011	308	413	721
1997	199	194	393	2012	306	425	731
1998	213	220	433	2013	309	430	739
1999	219	245	464	2014	325	432	757
				2015	345	455	800

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2015, Reported through 6/30/2016

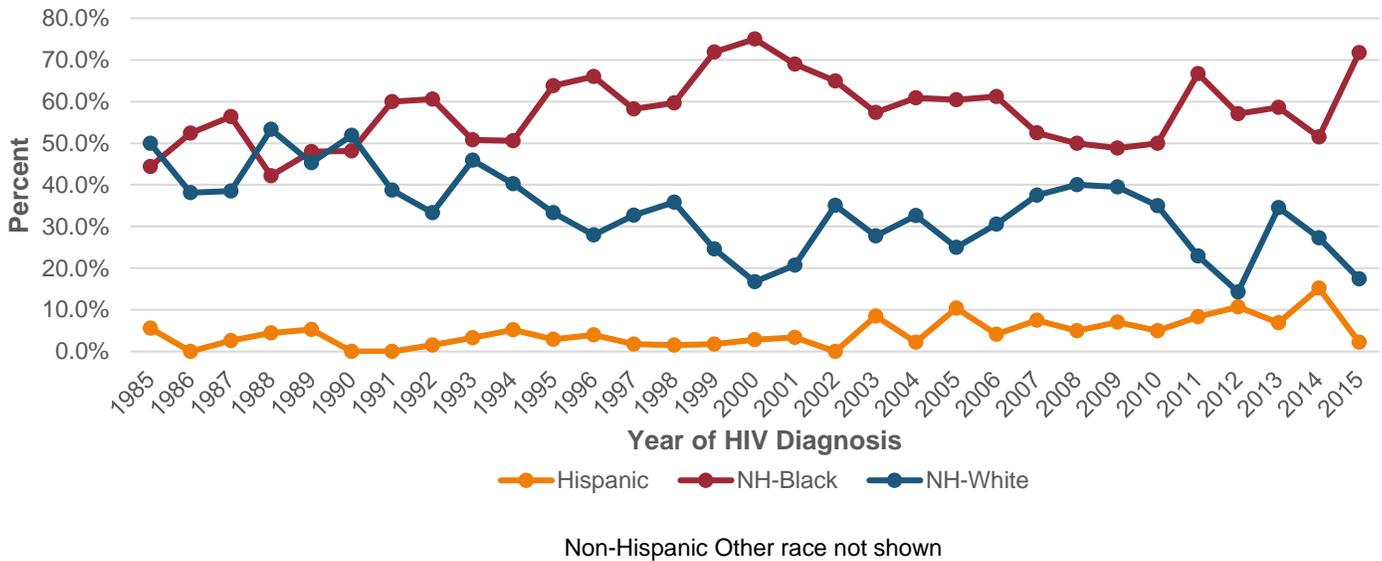
Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES			YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES		
	No.	% Male	% Female		No.	% Male	% Female
<1985	8	87.5%	12.5%	2000	36	61.1%	38.9%
1985	18	83.3%	16.7%	2001	58	56.9%	43.1%
1986	21	85.7%	14.3%	2002	37	73.0%	27.0%
1987	39	87.2%	12.8%	2003	47	63.8%	36.2%
1988	45	88.9%	11.1%	2004	46	58.7%	41.3%
1989	75	74.7%	25.3%	2005	48	60.4%	39.6%
1990	54	66.7%	33.3%	2006	49	61.2%	38.8%
1991	75	70.7%	29.3%	2007	40	72.5%	27.5%
1992	66	63.6%	36.4%	2008	40	67.5%	32.5%
1993	61	77.0%	23.0%	2009	43	81.4%	18.6%
1994	77	70.1%	29.9%	2010	40	80.0%	20.0%
1995	69	76.8%	23.2%	2011	48	87.5%	12.5%
1996	50	60.0%	40.0%	2012	28	75.0%	25.0%
1997	55	69.1%	30.9%	2013	29	79.3%	20.7%
1998	67	65.7%	34.3%	2014	33	69.7%	30.3%
1999	57	78.9%	21.1%	2015	46	69.6%	30.4%
				TOTAL	1,505	71.4%	28.6%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2015, Reported through 6/30/2016

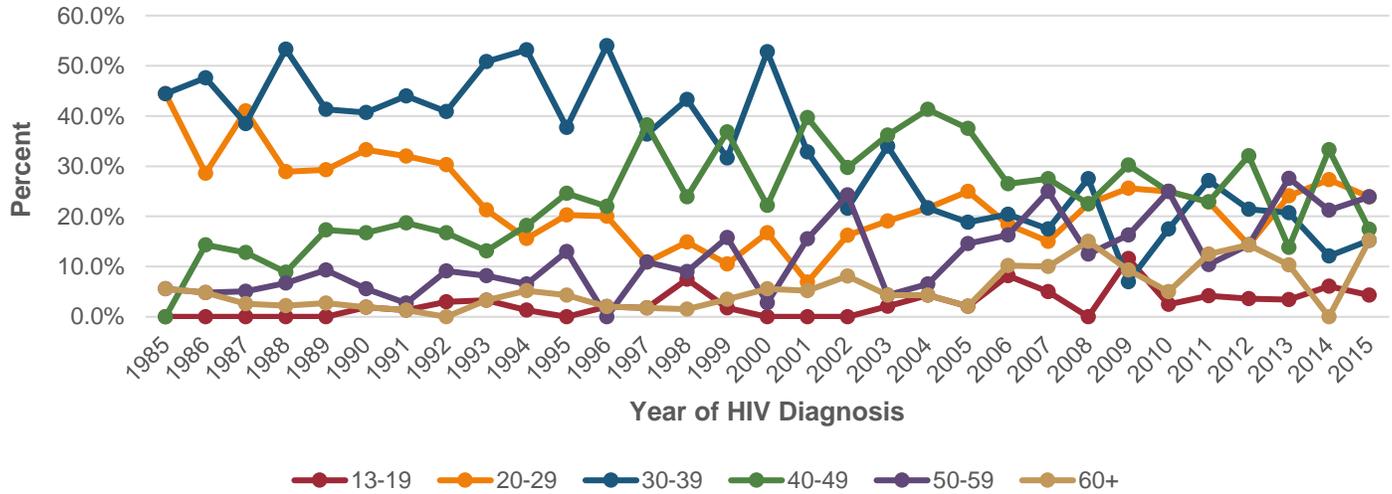
Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES				
	No.	% Hispanic	% Non-Hispanic Black, only	% Non-Hispanic White, only	% Non-Hispanic Other Race
<1985	8	0.0%	62.5%	37.5%	0.0%
1985	18	5.6%	44.4%	50.0%	0.0%
1986	21	0.0%	52.4%	38.1%	9.5%
1987	39	2.6%	56.4%	38.5%	2.6%
1988	45	4.4%	42.2%	53.3%	0.0%
1989	75	5.3%	48.0%	45.3%	1.3%
1990	54	0.0%	48.1%	51.9%	0.0%
1991	75	0.0%	60.0%	38.7%	1.3%
1992	66	1.5%	60.6%	33.3%	4.5%
1993	61	3.3%	50.8%	45.9%	0.0%
1994	77	5.2%	50.6%	40.3%	3.9%
1995	69	2.9%	63.8%	33.3%	0.0%
1996	50	4.0%	66.0%	28.0%	2.0%
1997	55	1.8%	58.2%	32.7%	7.3%
1998	67	1.5%	59.7%	35.8%	3.0%
1999	57	1.8%	71.9%	24.6%	1.8%
2000	36	2.8%	75.0%	16.7%	5.6%
2001	58	3.4%	69.0%	20.7%	6.9%
2002	37	0.0%	64.9%	35.1%	0.0%
2003	47	8.5%	57.4%	27.7%	6.4%
2004	46	2.2%	60.9%	32.6%	4.3%
2005	48	10.4%	60.4%	25.0%	4.2%
2006	49	4.1%	61.2%	30.6%	4.1%
2007	40	7.5%	52.5%	37.5%	2.5%
2008	40	5.0%	50.0%	40.0%	5.0%
2009	43	7.0%	48.8%	39.5%	4.7%
2010	40	5.0%	50.0%	35.0%	10.0%
2011	48	8.3%	66.7%	22.9%	2.1%
2012	28	10.7%	57.1%	14.3%	17.9%
2013	29	6.9%	58.6%	34.5%	0.0%
2014	33	15.2%	51.5%	27.3%	6.1%
2015	46	2.2%	71.7%	17.4%	8.7%
TOTAL	1,505	4.1%	58.1%	34.2%	3.7%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2015, Reported through 6/30/2016

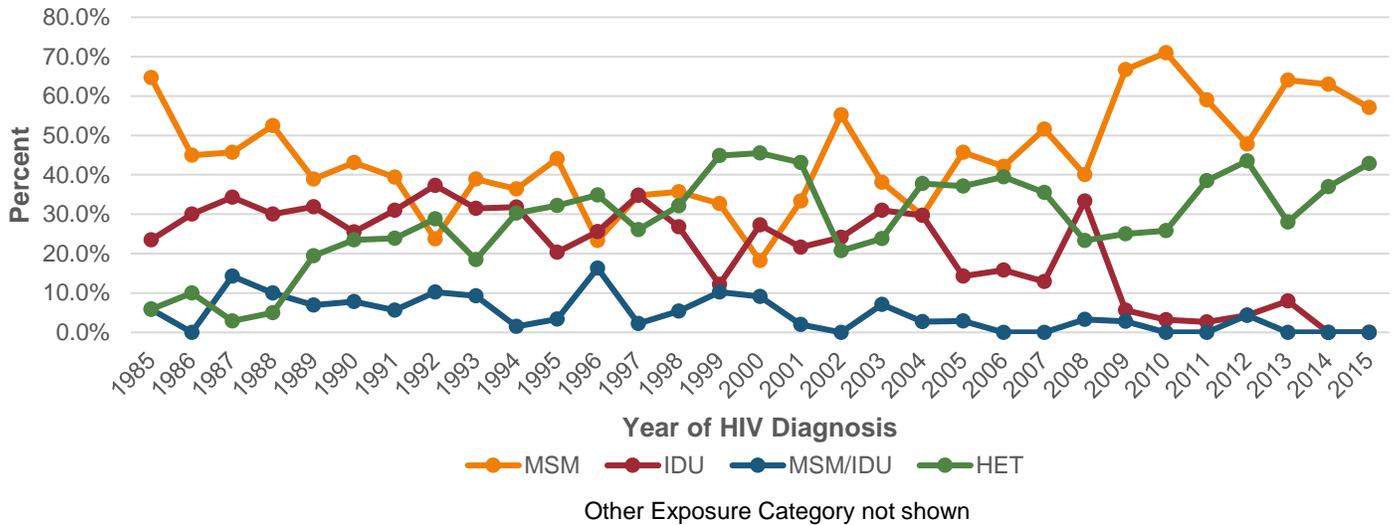
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	REPORTED ADULT/ADOLESCENT HIV DIAGNOSES						
	No.	% Age 13-19	% Age 20-29	% Age 30-39	% Age 40-49	% Age 50-59	% Age 60+
<1985	8	12.5%	25.0%	37.5%	12.5%	12.5%	0.0%
1985	18	0.0%	44.4%	44.4%	0.0%	5.6%	5.6%
1986	21	0.0%	28.6%	47.6%	14.3%	4.8%	4.8%
1987	39	0.0%	41.0%	38.5%	12.8%	5.1%	2.6%
1988	45	0.0%	28.9%	53.3%	8.9%	6.7%	2.2%
1989	75	0.0%	29.3%	41.3%	17.3%	9.3%	2.7%
1990	54	1.9%	33.3%	40.7%	16.7%	5.6%	1.9%
1991	75	1.3%	32.0%	44.0%	18.7%	2.7%	1.3%
1992	66	3.0%	30.3%	40.9%	16.7%	9.1%	0.0%
1993	61	3.3%	21.3%	50.8%	13.1%	8.2%	3.3%
1994	77	1.3%	15.6%	53.2%	18.2%	6.5%	5.2%
1995	69	0.0%	20.3%	37.7%	24.6%	13.0%	4.3%
1996	50	2.0%	20.0%	54.0%	22.0%	0.0%	2.0%
1997	55	1.8%	10.9%	36.4%	38.2%	10.9%	1.8%
1998	67	7.5%	14.9%	43.3%	23.9%	9.0%	1.5%
1999	57	1.8%	10.5%	31.6%	36.8%	15.8%	3.5%
2000	36	0.0%	16.7%	52.8%	22.2%	2.8%	5.6%
2001	58	0.0%	6.9%	32.8%	39.7%	15.5%	5.2%
2002	37	0.0%	16.2%	21.6%	29.7%	24.3%	8.1%
2003	47	2.1%	19.1%	34.0%	36.2%	4.3%	4.3%
2004	46	4.3%	21.7%	21.7%	41.3%	6.5%	4.3%
2005	48	2.1%	25.0%	18.8%	37.5%	14.6%	2.1%
2006	49	8.2%	18.4%	20.4%	26.5%	16.3%	10.2%
2007	40	5.0%	15.0%	17.5%	27.5%	25.0%	10.0%
2008	40	0.0%	22.5%	27.5%	22.5%	12.5%	15.0%
2009	43	11.6%	25.6%	7.0%	30.2%	16.3%	9.3%
2010	40	2.5%	25.0%	17.5%	25.0%	25.0%	5.0%
2011	48	4.2%	22.9%	27.1%	22.9%	10.4%	12.5%
2012	28	3.6%	14.3%	21.4%	32.1%	14.3%	14.3%
2013	29	3.4%	24.1%	20.7%	13.8%	27.6%	10.3%
2014	33	6.1%	27.3%	12.1%	33.3%	21.2%	0.0%
2015	46	4.3%	23.9%	15.2%	17.4%	23.9%	15.2%
TOTAL	1,505	2.7%	22.2%	34.6%	24.1%	11.4%	5.0%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2015, Reported through 6/30/2016

Percent by Exposure Category of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) and with Reported Exposure Category by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	With Exposure Category					% Other Exposure
	No.	% MSM	% IDU	% MSM/IDU	% HET		
<1985	8	6	66.7%	16.7%	0.0%	0.0%	16.7%
1985	18	17	64.7%	23.5%	5.9%	5.9%	0.0%
1986	21	20	45.0%	30.0%	0.0%	10.0%	15.0%
1987	39	35	45.7%	34.3%	14.3%	2.9%	2.9%
1988	45	40	52.5%	30.0%	10.0%	5.0%	2.5%
1989	75	72	38.9%	31.9%	6.9%	19.4%	2.8%
1990	54	51	43.1%	25.5%	7.8%	23.5%	0.0%
1991	75	71	39.4%	31.0%	5.6%	23.9%	0.0%
1992	66	59	23.7%	37.3%	10.2%	28.8%	0.0%
1993	61	54	38.9%	31.5%	9.3%	18.5%	1.9%
1994	77	66	36.4%	31.8%	1.5%	30.3%	0.0%
1995	69	59	44.1%	20.3%	3.4%	32.2%	0.0%
1996	50	43	23.3%	25.6%	16.3%	34.9%	0.0%
1997	55	46	34.8%	34.8%	2.2%	26.1%	2.2%
1998	67	56	35.7%	26.8%	5.4%	32.1%	0.0%
1999	57	49	32.7%	12.2%	10.2%	44.9%	0.0%
2000	36	33	18.2%	27.3%	9.1%	45.5%	0.0%
2001	58	51	33.3%	21.6%	2.0%	43.1%	0.0%
2002	37	29	55.2%	24.1%	0.0%	20.7%	0.0%
2003	47	42	38.1%	31.0%	7.1%	23.8%	0.0%
2004	46	37	29.7%	29.7%	2.7%	37.8%	0.0%
2005	48	35	45.7%	14.3%	2.9%	37.1%	0.0%
2006	49	38	42.1%	15.8%	0.0%	39.5%	2.6%
2007	40	31	51.6%	12.9%	0.0%	35.5%	0.0%
2008	40	30	40.0%	33.3%	3.3%	23.3%	0.0%
2009	43	36	66.7%	5.6%	2.8%	25.0%	0.0%
2010	40	31	71.0%	3.2%	0.0%	25.8%	0.0%
2011	48	39	59.0%	2.6%	0.0%	38.5%	0.0%
2012	28	23	47.8%	4.3%	4.3%	43.5%	0.0%
2013	29	25	64.0%	8.0%	0.0%	28.0%	0.0%
2014	33	27	63.0%	0.0%	0.0%	37.0%	0.0%
2015*	46	35	57.1%	0.0%	0.0%	42.9%	0.0%
TOTAL	1,505	1,286	42.4%	23.0%	5.1%	28.7%	0.9%

*2015 reported HIV exposure data are preliminary.

Section III – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late HIV Diagnosis	% Late HIV Diagnosis	First CD4 Test Result		
									No. with Test	% with Test	Median Count
Caroline	27,119	3	6.5%	11.1	***	***	***	***	***	***	***
Cecil	85,936	4	8.7%	4.7	***	***	***	***	***	***	***
Dorchester	27,278	10	21.7%	36.7	9	90.0%	6	60.0%	10	100.0%	167
Kent	17,436	1	2.2%	5.7	***	***	***	***	***	***	***
Queen Anne's	41,518	1	2.2%	2.4	***	***	***	***	***	***	***
Somerset	22,563	3	6.5%	13.3	***	***	***	***	***	***	***
Talbot	32,559	4	8.7%	12.3	***	***	***	***	***	***	***
Wicomico	86,317	15	32.6%	17.4	11	73.3%	***	***	12	80.0%	256
Worcester	45,221	5	10.9%	11.1	5	100.0%	***	***	***	***	210
TOTAL	385,947	46	100.0%	11.9	40	87.0%	17	37.0%	38	82.6%	236

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.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

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

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Number and percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 6/30/2016

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
Caroline	27,119	3	11.1%	11.1	***	***
Cecil	85,936	2	7.4%	2.3	***	***
Dorchester	27,278	9	33.3%	33.0	5.7	55.6%
Kent	17,436	2	7.4%	11.5	***	***
Queen Anne's	41,518	0	0.0%	0.0	--	--
Somerset	22,563	2	7.4%	8.9	***	***
Talbot	32,559	0	0.0%	0.0	--	--
Wicomico	86,317	7	25.9%	8.1	4.4	57.1%
Worcester	45,221	2	7.4%	4.4	***	***
TOTAL	385,947	27	100.0%	7.0	4.6	59.3%

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.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): 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.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016

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)
Caroline	27,119	29	8.6%	106.9	36	8.0%	132.7	65	8.3%	239.7	417
Cecil	85,936	52	15.5%	60.5	59	13.1%	68.7	111	14.1%	129.2	774
Dorchester	27,278	40	11.9%	146.6	84	18.6%	307.9	124	15.8%	454.6	219
Kent	17,436	15	4.5%	86.0	19	4.2%	109.0	34	4.3%	195.0	512
Queen Anne's	41,518	16	4.8%	38.5	33	7.3%	79.5	49	6.2%	118.0	847
Somerset	22,563	22	6.5%	97.5	30	6.7%	133.0	52	6.6%	230.5	433
Talbot	32,559	27	8.0%	82.9	32	7.1%	98.3	59	7.5%	181.2	551
Wicomico	86,317	102	30.4%	118.2	110	24.4%	127.4	212	26.9%	245.6	407
Worcester	45,221	33	9.8%	73.0	48	10.6%	106.1	81	10.3%	179.1	558
TOTAL	385,947	336	100.0%	87.1	451	100.0%	116.9	787	100.0%	203.9	490

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

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

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

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

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

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.

Table 3A – Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction and Current Residence, Reported through 6/30/2016

JURISDICTION OF RESIDENCE	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITH OR WITHOUT AIDS DIAGNOSIS								
		Residence at HIV Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio	No.	% of Total	Rate	Ratio	
Caroline	27,119	65	8.3%	239.7	417	57	6.9%	210.2	475	-12.3%
Cecil	85,936	111	14.1%	129.2	774	118	14.3%	137.3	728	6.3%
Dorchester	27,278	124	15.8%	454.6	219	128	15.5%	469.2	213	3.2%
Kent	17,436	34	4.3%	195.0	512	38	4.6%	217.9	458	11.8%
Queen Anne's	41,518	49	6.2%	118.0	847	48	5.8%	115.6	864	-2.0%
Somerset	22,563	52	6.6%	230.5	433	61	7.4%	270.3	369	17.3%
Talbot	32,559	59	7.5%	181.2	551	67	8.1%	205.8	485	13.6%
Wicomico	86,317	212	26.9%	245.6	407	225	27.2%	260.7	383	6.1%
Worcester	45,221	81	10.3%	179.1	558	86	10.4%	190.2	525	6.2%
TOTAL	385,947	787	100.0%	203.9	490	828	100.0%	214.5	466	5.2%

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

Jurisdiction of Residence: Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Current Residence: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-6/30/2016.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

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.

Percent Change: The extent to which a county gained or lost HIV/AIDS cases relative to the number of cases diagnosed in the county.

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

Table 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
Caroline	65	28	43.1%	475	17.9%	10.7%	28.6%	42.9%
Cecil	111	49	44.1%	546	6.1%	20.4%	18.4%	55.1%
Dorchester	124	83	66.9%	509	10.8%	18.1%	19.3%	51.8%
Kent	34	20	58.8%	631	10.0%	30.0%	5.0%	55.0%
Queen Anne's	49	29	59.2%	605	13.8%	17.2%	3.4%	65.5%
Somerset	52	38	73.1%	554	10.5%	10.5%	15.8%	63.2%
Talbot	59	30	50.8%	394	23.3%	23.3%	10.0%	43.3%
Wicomico	212	126	59.4%	520	18.3%	11.9%	17.5%	52.4%
Worcester	81	53	65.4%	563	11.3%	11.3%	17.0%	60.4%
TOTAL	787	456	57.9%	537	13.8%	15.6%	16.4%	54.2%

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

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

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).

Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Caroline	65	28	43.1%	78.6%	5,159
Cecil	111	44	39.6%	81.8%	1,170
Dorchester	124	81	65.3%	84.0%	4,850
Kent	34	21	61.8%	85.7%	1,506
Queen Anne's	49	27	55.1%	85.2%	71,428
Somerset	52	35	67.3%	85.7%	10,410
Talbot	59	35	59.3%	77.1%	45,988
Wicomico	212	121	57.1%	72.7%	34,050
Worcester	81	54	66.7%	81.5%	11,005
TOTAL	787	446	56.7%	79.8%	15,310

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

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

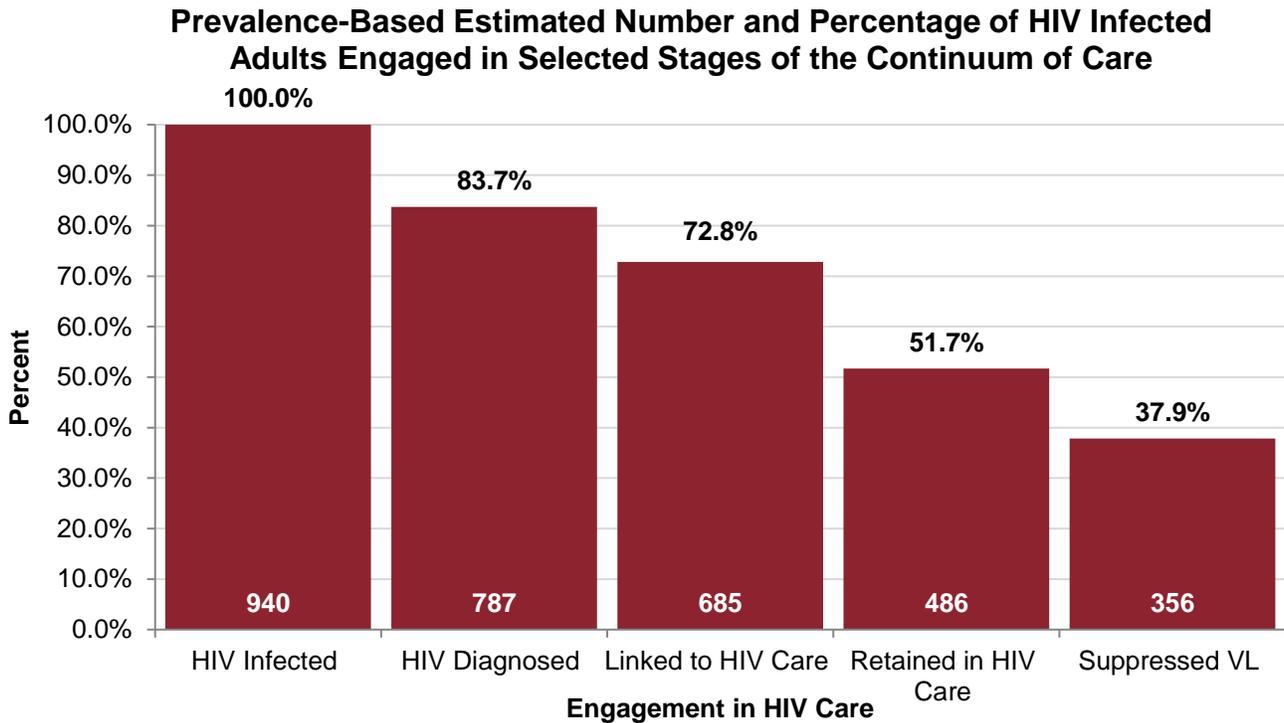
Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, Reported through 6/30/2016

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. The prevalence-based Eastern Region Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (16.3%)² to generate an estimated number of HIV infected persons in the Eastern Region. It then uses local data to describe the number and percentage of persons living with HIV in the Eastern Region who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Infected	940	100.0%
HIV Diagnosed	787	83.7%
Linked to HIV Care	685	72.8%
Retained in HIV Care	486	51.7%
Suppressed VL	356	37.9%

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (16.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

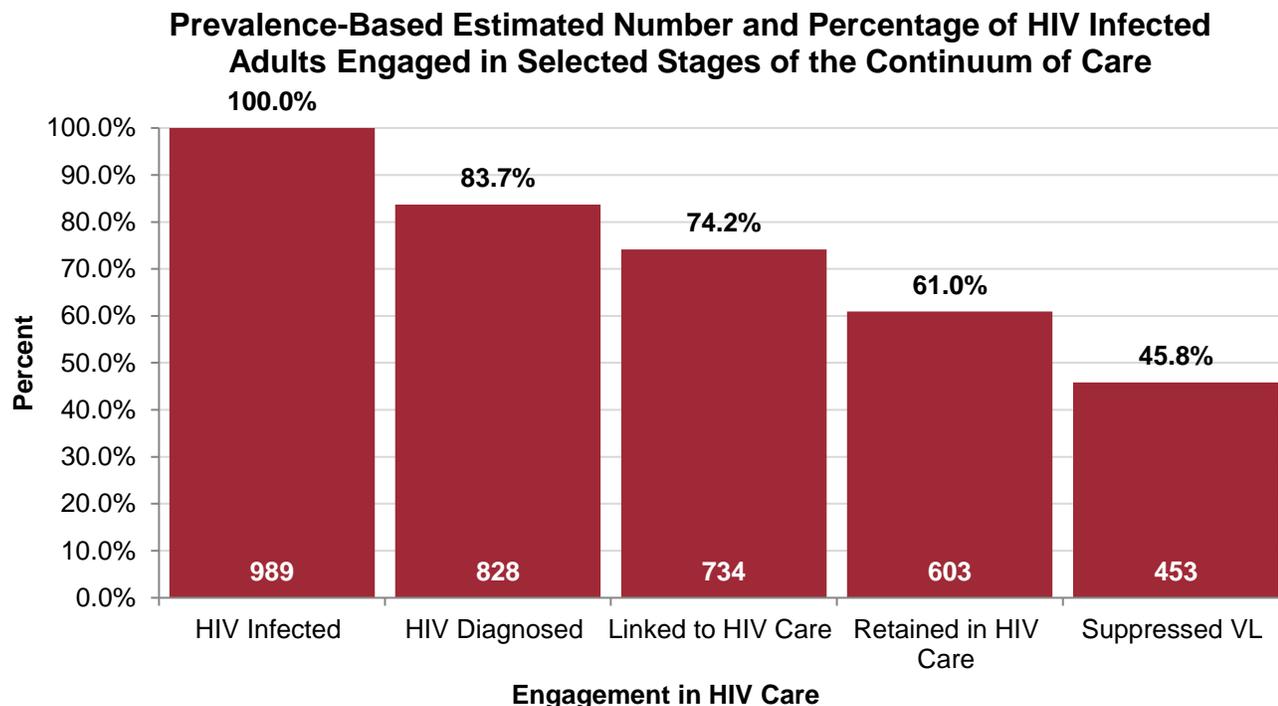
Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year, reported through 6/30/2016 of less than 200 copies per milliliter.

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): 7930-800.

² Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2014. *HIV Surveillance Supplemental Report* 2016;21(No. 4). <http://www.cdc.gov/hiv/library/reports/surveillance/>. Published July 2016.

Figure 7A – Prevalence-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, by Current Residence, Reported through 6/30/2016

The prevalence-based Eastern Region Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (16.3%)¹ to generate an estimated number of HIV infected persons in the Eastern Region. It then uses local data for current Eastern Region residents to describe the number and percentage of persons living with HIV in the Eastern Region who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Infected	989	100.0%
HIV Diagnosed	828	83.7%
Linked to HIV Care	734	74.2%
Retained in HIV Care	603	61.0%
Suppressed VL	453	45.8%

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (16.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

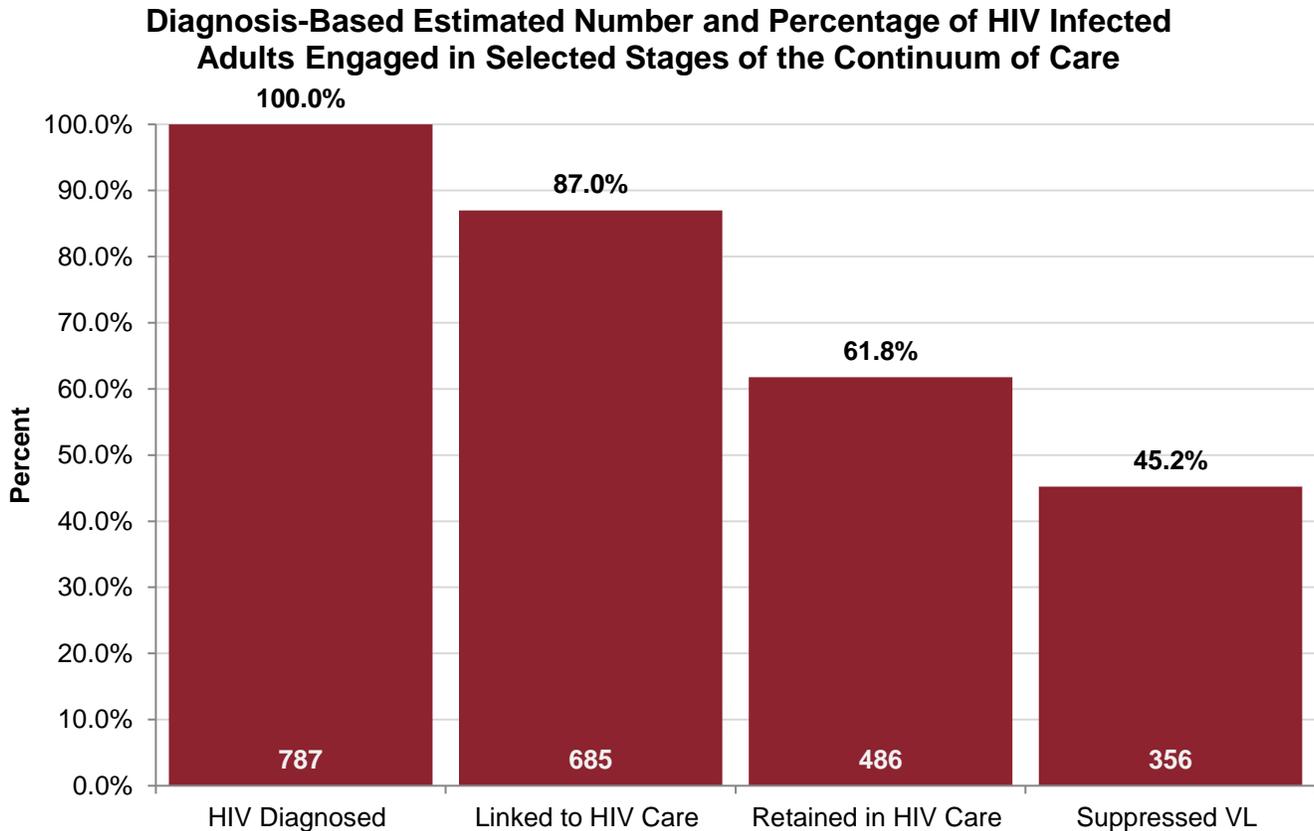
Suppressed Viral Load: HIV Diagnosed with the most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

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

¹ Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2014. *HIV Surveillance Supplemental Report* 2016;21(No. 4). <http://www.cdc.gov/hiv/library/reports/surveillance/>. Published July 2016.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, Reported through 6/30/2016

The diagnosis-based Eastern Region Engagement in HIV Care Cascade (below) uses local data to describe the number and percentage of persons diagnosed with HIV in the Eastern Region who belong to each of the stages of engagement in HIV care.



Engagement in HIV Care

CONTINUUM OF CARE STAGE	Number	Percentage
HIV Diagnosed	787	100.0%
Linked to HIV Care	685	87.0%
Retained in HIV Care	486	61.8%
Suppressed VL	356	45.2%

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

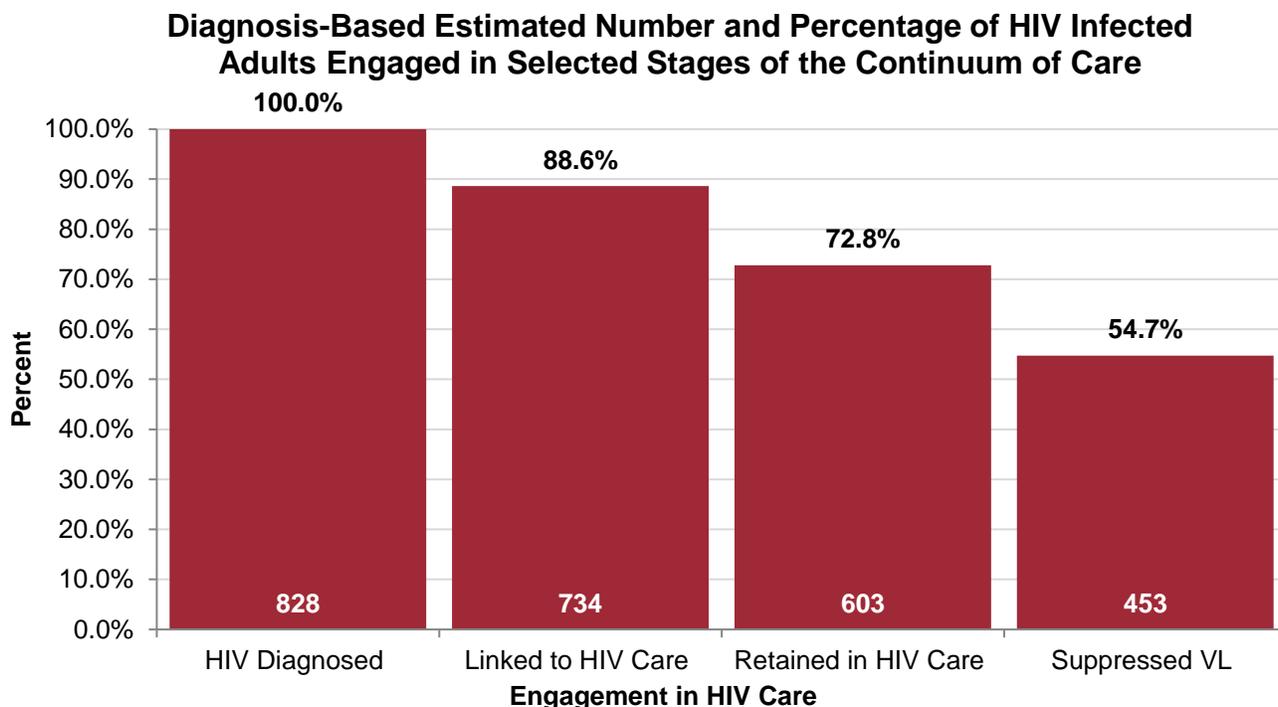
Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Figure 8A – Diagnosis-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, by Current Residence, Reported through 6/30/2016

The diagnosis-based Eastern Region Engagement in HIV Care Cascade (below) uses local data for current Eastern Region residents to describe the number and percentage of persons diagnosed with HIV in the Eastern Region who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Diagnosed	828	100.0%
Linked to HIV Care	734	88.6%
Retained in HIV Care	603	72.8%
Suppressed VL	453	54.7%

HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

Suppressed Viral Load: HIV Diagnosed with the most recent viral measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

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

Section IV – Cases by Age

Table 6 – HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 6/30/2016

AGE AT HIV DIAGNOSIS	POPULATION	REPORTED HIV DIAGNOSES									
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late Diagnosis	% Late Diagnosis	First CD4 Test Result		
									No. with Test	% with Test	Median Count
<5 (Pediatric)	24,225	0	0.0%	0.0	--	--	--	--	--	--	--
5-12 (Pediatric)	43,054	0	0.0%	0.0	--	--	--	--	--	--	--
13-19	41,381	2	4.3%	4.8	***	***	***	***	***	***	***
20-29	59,925	11	23.9%	18.4	***	***	***	***	7	63.6%	295
30-39	48,997	7	15.2%	14.3	7	100.0%	***	***	6	85.7%	196
40-49	54,966	8	17.4%	14.6	8	100.0%	***	***	***	***	***
50-59	67,955	11	23.9%	16.2	10	90.9%	6	54.5%	11	100.0%	159
60+	112,723	7	15.2%	6.2	7	100.0%	***	***	7	100.0%	571
TOTAL	453,226	46	100.0%	10.1	40	87.0%	17	37.0%	38	82.6%	236

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

Table 7 – AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 6/30/2016

AGE AT AIDS DIAGNOSIS	POPULATION	REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
<5 (Pediatric)	24,225	0	0.0%	0.0	--	--
5-12 (Pediatric)	43,054	0	0.0%	0.0	--	--
13-19	41,381	0	0.0%	0.0	--	--
20-29	59,925	3	11.1%	5.0	***	***
30-39	48,997	6	22.2%	12.2	5.4	50.0%
40-49	54,966	7	25.9%	12.7	7.8	57.1%
50-59	67,955	7	25.9%	10.3	0.8	85.7%
60+	112,723	4	14.8%	3.5	***	***
TOTAL	453,226	27	100.0%	6.0	4.6	59.3%

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

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

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

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Table 8 – HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016

AGE ON 12/31/2015	POPULATION	LIVING HIV CASES WITHOUT AIDS			LIVING HIV CASES WITH AIDS			TOTAL LIVING HIV CASES			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
<5	24,225	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
5-12	43,054	2	0.6%	4.6	0	0.0%	0.0	2	0.3%	4.6	21,526
13-19	41,381	5	1.4%	12.1	0	0.0%	0.0	5	0.6%	12.1	8,276
20-29	59,925	50	14.5%	83.4	25	5.5%	41.7	75	9.4%	125.2	799
30-39	48,997	68	19.7%	138.8	44	9.7%	89.8	112	14.0%	228.6	437
40-49	54,966	83	24.1%	151.0	104	22.9%	189.2	187	23.4%	340.2	293
50-59	67,955	76	22.0%	111.8	181	39.8%	266.4	257	32.1%	378.2	264
60+	112,723	61	17.7%	54.1	101	22.2%	89.6	162	20.3%	143.7	695
TOTAL	453,226	345	100.0%	76.1	455	100.0%	100.4	800	100.0%	176.5	566

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2015.

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

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

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

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

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.

Table 9 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016

ADULT/ADOLESCENT TOTAL LIVING HIV CASES								
AGE ON 12/31/2015	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	4	3	75.0%	688	0.0%	0.0%	33.3%	66.7%
20-29	68	41	60.3%	569	9.8%	14.6%	17.1%	58.5%
30-39	109	57	52.3%	560	24.6%	10.5%	12.3%	52.6%
40-49	187	94	50.3%	501	16.0%	18.1%	16.0%	50.0%
50-59	257	162	63.0%	514	12.3%	15.4%	18.5%	53.7%
60+	162	99	61.1%	563	10.1%	17.2%	15.2%	57.6%
TOTAL	787	456	57.9%	537	13.8%	15.6%	16.4%	54.2%

Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016

ADULT/ADOLESCENT TOTAL LIVING HIV CASES						
AGE ON 12/31/2015	No.	Recent Viral Load Test Result				
		No. with Test	% with Test	% Suppressed	Median Unsuppressed	
13-19	4	4	100.0%	75.0%	491,360	
20-29	68	45	66.2%	60.0%	2,263	
30-39	109	56	51.4%	64.3%	12,245	
40-49	187	101	54.0%	75.2%	30,340	
50-59	257	150	58.4%	88.7%	37,380	
60+	162	90	55.6%	90.0%	6,690	
TOTAL	787	446	56.7%	79.8%	15,310	

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

Age on [date]: Age group of living cases on the specified date.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

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).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Section V – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2016

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count	
Male	187,204	32	69.6%	17.1	27	84.4%	13	40.6%	26	81.3%	231	
Female	198,743	14	30.4%	7.0	13	92.9%	4	28.6%	12	85.7%	310	
TOTAL	385,947	46	100.0%	11.9	40	87.0%	17	37.0%	38	82.6%	236	

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count	
Hispanic	14,884	1	2.2%	6.7	***	***	***	***	***	***	***	
Non-Hispanic	371,063	45	97.8%	12.1	39	86.7%	16	35.6%	37	82.2%	241	
American Indian/Alaska Native, only	1,031	0	0.0%	0.0	--	--	--	--	--	--	--	
Asian, only	6,237	0	0.0%	0.0	--	--	--	--	--	--	--	
Black, only	61,452	33	71.7%	53.7	28	84.8%	13	39.4%	26	78.8%	216	
Native Hawaiian/Other Pacific Islander, only	143	0	0.0%	0.0	--	--	--	--	--	--	--	
White, only	297,005	8	17.4%	2.7	8	100.0%	***	***	8	100.0%	425	
Multiracial/Other	5,195	4	8.7%	77.0	***	***	***	***	***	***	***	
TOTAL	385,947	46	100.0%	11.9	40	87.0%	17	37.0%	38	82.6%	236	

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count	
United States	361,305	37	80.4%	10.2	32	86.5%	14	37.8%	29	78.4%	231	
Foreign-born	21,017	6	13.0%	28.5	5	83.3%	***	***	6	100.0%	143	
Africa	--	0	0.0%	--	--	--	--	--	--	--	--	
Asia	--	0	0.0%	--	--	--	--	--	--	--	--	
Caribbean	--	4	8.7%	--	***	***	***	***	***	***	***	
Central America	--	1	2.2%	--	***	***	***	***	***	***	***	
Other	--	1	2.2%	--	***	***	***	***	***	***	***	
Unknown	--	3	6.5%	--	***	***	***	***	***	***	***	
TOTAL	382,322	46	100.0%	12.0	40	87.0%	17	37.0%	38	82.6%	236	

* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

** Population data by country of birth are from the 2014 American Community Survey

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

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.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

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

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 12 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2016

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Male	1,122,721	19	70.4%	1.7	3.7	63.2%
Female	1,230,187	8	29.6%	0.7	7.0	50.0%
TOTAL	2,352,908	27	100.0%	1.1	4.6	59.3%

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Hispanic	111,938	1	3.7%	0.9	***	***
Non-Hispanic	2,240,970	26	96.3%	1.2	4.8	57.7%
American Indian/Alaska Native, only	5,960	0	0.0%	0.0	--	--
Asian, only	128,614	0	0.0%	0.0	--	--
Black, only	664,587	21	77.8%	3.2	5.1	57.1%
Native Hawaiian/Other Pacific Islander, only	1,242	0	0.0%	0.0	--	--
White, only	1,401,506	3	11.1%	0.2	***	***
Multiracial/Other	39,062	2	7.4%	5.1	***	***
TOTAL	2,352,908	27	100.0%	1.1	4.6	59.3%

COUNTY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
United States	2,060,873	24	88.9%	1.2	5.2	54.2%
Foreign-born	245,535	3	11.1%	1.2	***	***
Africa	--	0	0.0%	--	--	--
Asia	--	0	0.0%	--	--	--
Caribbean	--	2	7.4%	--	***	***
Central America	--	1	3.7%	--	***	***
Other	--	0	0.0%	--	--	--
Unknown	--	0	0.0%	--	--	--
TOTAL	2,306,409	27	100.0%	1.2	4.6	59.3%

* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

** Population data by country of birth are from the 2014 American Community Survey

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

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.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): 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.

Table 13 – Adult/Adolescent Living HIV Cases with and without AIDS by Sex at Birth, Race/Ethnicity, and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016

SEX AT BIRTH	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			Ratio (1 in X)
		No.	%	Rate	No.	%	Rate	No.	%	Rate	
Male	1,122,721	226	67.3%	20.1	304	67.4%	27.1	530	67.3%	47.2	2,118
Female	1,230,187	110	32.7%	8.9	147	32.6%	11.9	257	32.7%	20.9	4,786
TOTAL	2,352,908	336	100.0%	14.3	451	100.0%	19.2	787	100.0%	33.4	2,989

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			Ratio (1 in X)
		No.	%	Rate	No.	%	Rate	No.	%	Rate	
Hispanic	111,938	21	6.3%	18.8	22	4.9%	19.7	43	5.5%	38.4	2,603
Non-Hispanic	2,240,970	315	93.8%	14.1	429	95.1%	19.1	744	94.5%	33.2	3,012
American Indian/Alaska Native, only	5,960	0	0.0%	0.0	1	0.2%	16.8	1	0.1%	16.8	5,960
Asian, only	128,614	1	0.3%	0.8	2	0.4%	1.6	3	0.4%	2.3	42,871
Black, only	664,587	196	58.3%	29.5	250	55.4%	37.6	446	56.7%	67.1	1,490
Native Hawaiian/Other Pacific Islander, only	1,242	1	0.3%	80.5	0	0.0%	0.0	1	0.1%	80.5	1,242
White, only	1,401,506	102	30.4%	7.3	148	32.8%	10.6	250	31.8%	17.8	5,606
Multiracial/Other	39,062	15	4.5%	38.4	28	6.2%	71.7	43	5.5%	110.1	908
TOTAL	2,352,908	336	100.0%	14.3	451	100.0%	19.2	787	100.0%	33.4	2,989

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			Ratio (1 in X)
		No.	%	Rate	No.	%	Rate	No.	%	Rate	
United States	2,060,873	306	91.1%	14.8	417	92.5%	20.2	723	91.9%	35.1	2,850
Foreign-born	245,535	25	7.4%	10.2	32	7.1%	13.0	57	7.2%	23.2	4,307
Africa	--	2	0.6%	--	4	0.9%	--	6	0.8%	--	--
Asia	--	1	0.3%	--	3	0.7%	--	4	0.5%	--	--
Caribbean	--	13	3.9%	--	13	2.9%	--	26	3.3%	--	--
Central America	--	4	1.2%	--	10	2.2%	--	14	1.8%	--	--
Other	--	5	1.5%	--	2	0.4%	--	7	0.9%	--	--
Unknown	--	5	1.5%	--	2	0.4%	--	7	0.9%	--	--
TOTAL	2,306,409	336	100.0%	14.6	451	100.0%	19.6	787	100.0%	34.1	2,930

* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

** Population data by country of birth are from the 2014 American Community Survey

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

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

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

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

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

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.

Table 14 –Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016

ADULT/ADOLESCENT TOTAL LIVING HIV CASES								
SEX AT BIRTH	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	530	302	57.0%	507	11.9%	17.9%	19.5%	50.7%
Female	257	154	59.9%	581	17.5%	11.0%	10.4%	61.0%
TOTAL	787	456	57.9%	537	13.8%	15.6%	16.4%	54.2%

ADULT/ADOLESCENT TOTAL LIVING HIV CASES								
RACE/ETHNICITY	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	43	18	41.9%	443	22.2%	22.2%	5.6%	50.0%
Non-Hispanic	744	438	58.9%	541	13.5%	15.3%	16.9%	54.3%
American Indian/Alaska Native, only	1	***	***	***	***	***	***	***
Asian, only	3	***	***	***	***	***	***	***
Black, only	446	270	60.5%	507	14.4%	16.7%	18.5%	50.4%
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***	***	***	***
White, only	250	135	54.0%	587	11.9%	14.8%	11.1%	62.2%
Multiracial/Other	43	32	74.4%	520	12.5%	6.3%	25.0%	56.3%
TOTAL	787	456	57.9%	537	13.8%	15.6%	16.4%	54.2%

ADULT/ADOLESCENT TOTAL LIVING HIV CASES								
COUNTRY OF BIRTH	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	723	427	59.1%	540	13.6%	15.7%	16.4%	54.3%
Foreign-born	57	23	40.4%	503	17.4%	17.4%	13.0%	52.2%
Africa	6	***	***	***	***	***	***	***
Asia	4	***	***	***	***	***	***	***
Caribbean	26	11	42.3%	352	18.2%	27.3%	27.3%	27.3%
Central America	14	7	50.0%	503	28.6%	14.3%	0.0%	57.1%
Other	7	***	***	***	***	***	***	***
Unknown	7	6	85.7%	545	16.7%	0.0%	33.3%	50.0%
TOTAL	787	456	57.9%	537	13.8%	15.6%	16.4%	54.2%

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

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

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

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).

Table 15 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016

ADULT/ADOLESCENT TOTAL LIVING HIV CASES						
SEX AT BIRTH	No.	Recent Viral Load Test Result				
		No. with Test	% with Test	% Suppressed	Median Unsuppressed	
Male	530	298	56.2%	81.2%	8,185	
Female	257	148	57.6%	77.0%	32,717	
TOTAL	787	446	56.7%	79.8%	15,310	

ADULT/ADOLESCENT TOTAL LIVING HIV CASES						
RACE/ETHNICITY	No.	Recent Viral Load Test Result				
		No. with Test	% with Test	% Suppressed	Median Unsuppressed	
Hispanic	43	20	46.5%	80.0%	3,615	
Non-Hispanic	744	426	57.3%	79.8%	17,248	
American Indian/Alaska Native, only	1	***	***	***	***	
Asian, only	3	***	***	***	***	
Black, only	446	261	58.5%	75.5%	20,881	
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***	
White, only	250	133	53.2%	88.7%	24,560	
Multiracial/Other	43	31	72.1%	77.4%	1,730	
TOTAL	787	446	56.7%	79.8%	15,310	

ADULT/ADOLESCENT TOTAL LIVING HIV CASES						
COUNTRY OF BIRTH	No.	Recent Viral Load Test Result				
		No. with Test	% with Test	% Suppressed	Median Unsuppressed	
United States	723	414	57.3%	80.7%	15,310	
Foreign-born	57	26	45.6%	65.4%	42,210	
Africa	6	***	***	***	***	
Asia	4	***	***	***	***	
Caribbean	26	13	50.0%	46.2%	44,240	
Central America	14	8	57.1%	75.0%	5,110	
Other	7	***	***	***	***	
Unknown	7	6	85.7%	83.3%	384	
TOTAL	787	446	56.7%	79.8%	15,310	

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

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

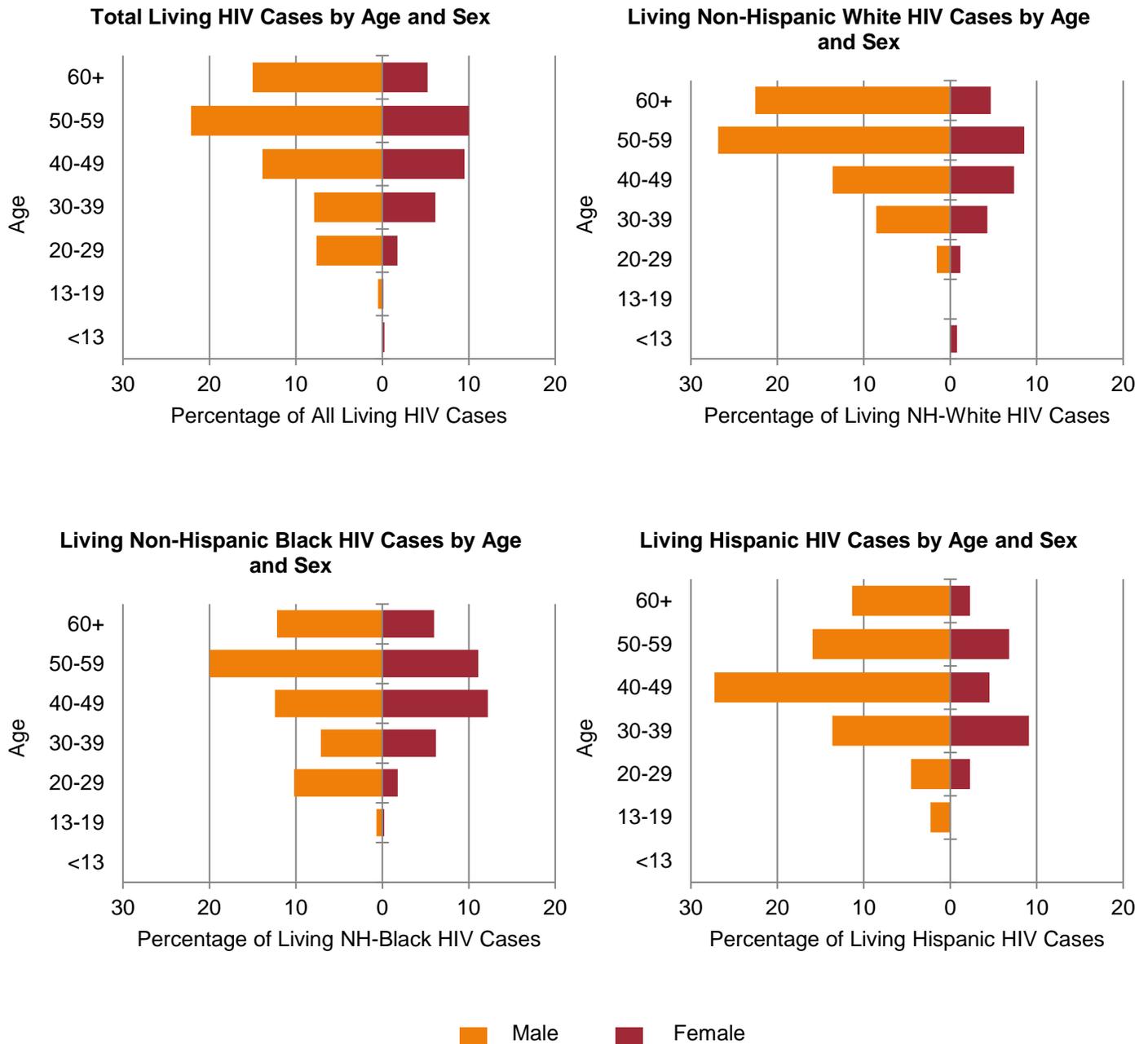
Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year, reported through 6/30/2016 of 200 copies per milliliter or greater.

Section VI – 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 12/31/2015 and Reported through 6/30/2016



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.

Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016

		MALES				
AGE ON 12/31/2015		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	74,269	151,303	210,701	57,679	493,951
	Cases	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0
	Ratio (1 in X)	--	--	--	--	--
13-19	Population	30,511	85,713	128,408	27,718	272,351
	Cases	1	3	0	0	4
	Rate	3.3	3.5	0.0	0.0	1.5
	Ratio (1 in X)	30,511	28,571	--	--	68,087
20-29	Population	49,423	129,223	198,509	37,500	414,655
	Cases	2	46	4	9	61
	Rate	4.0	35.6	2.0	24.0	14.7
	Ratio (1 in X)	24,711	2,809	49,627	4,166	6,797
30-39	Population	58,378	109,946	186,794	37,378	392,496
	Cases	6	32	22	3	63
	Rate	10.3	29.1	11.8	8.0	16.1
	Ratio (1 in X)	9,729	3,435	8,490	12,459	6,230
40-49	Population	42,384	112,894	195,236	34,649	385,163
	Cases	12	56	35	8	111
	Rate	28.3	49.6	17.9	23.1	28.8
	Ratio (1 in X)	3,532	2,015	5,578	4,331	3,469
50-59	Population	25,356	115,409	250,246	28,914	419,925
	Cases	7	90	69	11	177
	Rate	27.6	78.0	27.6	38.0	42.2
	Ratio (1 in X)	3,622	1,282	3,626	2,628	2,372
60+	Population	17,697	119,175	361,785	33,887	532,544
	Cases	5	55	58	2	120
	Rate	28.3	46.2	16.0	5.9	22.5
	Ratio (1 in X)	3,539	2,166	6,237	16,943	4,437
TOTAL MALES BY RACE/ETHNICITY	Population	298,018	823,663	1,531,679	257,725	2,911,085
	Cases	33	282	188	33	536
	Rate	11.1	34.2	12.3	12.8	18.4
	Ratio (1 in X)	9,030	2,920	8,147	7,809	5,431

Age on [date]: Age group of living cases on the specified date.

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.

Population: Population estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

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.

Table 17 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016

FEMALES						
AGE ON 12/31/2015		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	74,269	151,303	210,701	57,679	493,951
	Cases	0	0	2	0	2
	Rate	0.0	0.0	0.9	0.0	0.4
	Ratio (1 in X)	--	--	105,350	--	246,975
13-19	Population	30,511	85,713	128,408	27,718	272,351
	Cases	0	1	0	0	1
	Rate	0.0	1.2	0.0	0.0	0.4
	Ratio (1 in X)	--	85,713	--	--	272,351
20-29	Population	49,423	129,223	198,509	37,500	414,655
	Cases	1	8	3	2	14
	Rate	2.0	6.2	1.5	5.3	3.4
	Ratio (1 in X)	49,423	16,152	66,169	18,750	29,618
30-39	Population	58,378	109,946	186,794	37,378	392,496
	Cases	4	28	11	6	49
	Rate	6.9	25.5	5.9	16.1	12.5
	Ratio (1 in X)	14,594	3,926	16,981	6,229	8,010
40-49	Population	42,384	112,894	195,236	34,649	385,163
	Cases	2	55	19	0	76
	Rate	4.7	48.7	9.7	0.0	19.7
	Ratio (1 in X)	21,192	2,052	10,275	--	5,067
50-59	Population	25,356	115,409	250,246	28,914	419,925
	Cases	3	50	22	5	80
	Rate	11.8	43.3	8.8	17.3	19.1
	Ratio (1 in X)	8,452	2,308	11,374	5,782	5,249
60+	Population	17,697	119,175	361,785	33,887	532,544
	Cases	1	27	12	2	42
	Rate	5.7	22.7	3.3	5.9	7.9
	Ratio (1 in X)	17,697	4,413	30,148	16,943	12,679
TOTAL FEMALES BY RACE/ETHNICITY	Population	298,018	823,663	1,531,679	257,725	2,911,085
	Cases	11	169	69	15	264
	Rate	3.7	20.5	4.5	5.8	9.1
	Ratio (1 in X)	27,092	4,873	22,198	17,181	11,026

Age on [date]: Age group of living cases on the specified date.

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.

Population: Population estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

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.

Section VII – HIV Exposure Category

Table 18 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT HIV DIAGNOSES						First CD4 Test Result		
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	No. with Test	% with Test	Median Count
	With Exposure**	35	100.0%	29	82.9%	11	31.4%	27	77.1%
Men who have Sex with Men (MSM)	20	57.1%	16	80.0%	5	25.0%	16	80.0%	287
Injection Drug Users (IDU)	0	0.0%	--	--	--	--	--	--	--
Men who have Sex with Men and Inject Drugs (MSM/IDU)	0	0.0%	--	--	--	--	--	--	--
Heterosexual Exposure (HET)	15	42.9%	13	86.7%	6	40.0%	11	73.3%	241
Other Exposure	0	0.0%	--	--	--	--	--	--	--
No Reported Exposure*	11		11	100.0%	6	54.5%	11	100.0%	175
TOTAL	46		40	87.0%	17	37.0%	38	82.6%	236

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						First CD4 Test Result		
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	No. with Test	% with Test	Median Count
	With Exposure**	25	100.0%	20	80.0%	9	36.0%	19	76.0%
Men who have Sex with Men (MSM)	20	80.0%	***	***	***	***	***	***	***
Injection Drug Users (IDU)	0	0.0%	--	--	--	--	--	--	--
Men who have Sex with Men and Inject Drugs (MSM/IDU)	0	0.0%	--	--	--	--	--	--	--
Heterosexual Exposure (HET)	5	20.0%	***	***	***	***	***	***	***
Other Exposure	0	0.0%	--	--	--	--	--	--	--
No Reported Exposure	7		7	100.0%	***	***	7	100.0%	175
TOTAL	32		27	84.4%	13	40.6%	26	81.3%	231

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						First CD4 Test Result		
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	No. with Test	% with Test	Median Count
	With Exposure**	10	100.0%	9	90.0%	***	***	8	80.0%
Injection Drug Users (IDU)	0	0.0%	--	--	--	--	--	--	--
Heterosexual Exposure (HET)	10	100.0%	9	90.0%	***	***	8	80.0%	413
Other Exposure	0	0.0%	--	--	--	--	--	--	--
No Reported Exposure*	4		4	100.0%	2	50.0%	4	100.0%	174
TOTAL	14		13	92.9%	4	28.6%	12	85.7%	310

* Includes 1 new HIV diagnosis with Presumed Female Heterosexual exposure

** 2015 reported HIV exposure data are preliminary.

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

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.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

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

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 19 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT AIDS DIAGNOSES			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure**	19	100.0%	5.4	52.6%
Men who have Sex with Men (MSM)	7	36.8%	2.4	57.1%
Injection Drug Users (IDU)	0	0.0%	--	--
Men who have Sex with Men and Inject Drugs (MSM/IDU)	0	0.0%	--	--
Heterosexual Exposure (HET)	12	63.2%	7.2	50.0%
Other Exposures	0	0.0%	--	--
No Reported Exposure*	8		2.7	75.0%
TOTAL	27		4.6	59.3%

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT AIDS DIAGNOSES			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure**	13	100.0%	3.7	61.5%
Men who have Sex with Men (MSM)	7	53.8%	2.4	57.1%
Injection Drug Users (IDU)	0	0.0%	--	--
Men who have Sex with Men and Inject Drugs (MSM/IDU)	0	0.0%	--	--
Heterosexual Exposure (HET)	6	46.2%	5.2	66.7%
Other Exposures	0	0.0%	--	--
No Reported Exposure	6		3.6	66.7%
TOTAL	19		3.7	63.2%

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT AIDS DIAGNOSES			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure**	6	100.0%	9.2	33.3%
Injection Drug Users (IDU)	0	0.0%	--	--
Heterosexual Exposure (HET)	6	100.0%	9.2	33.3%
Other Exposures	0	0.0%	--	--
No Reported Exposure*	2		0.2	100.0%
TOTAL	8		7.0	50.0%

* Includes 1 new AIDS diagnosis with Presumed Female Heterosexual exposure

** 2015 reported HIV exposure data are preliminary.

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.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): 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.

Table 20 – Adult/Adolescent Living HIV Cases with and without AIDS by Exposure Category and Sex at Birth, Alive on 12/31/2015 and Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS		ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS		ADULT/ADOLESCENT TOTAL LIVING HIV CASES	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	271	100.0%	392	100.0%	663	100.0%
Men who have Sex with Men (MSM)	141	52.0%	160	40.8%	301	45.4%
Injection Drug Users (IDU)	26	9.6%	72	18.4%	98	14.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	8	3.0%	12	3.1%	20	3.0%
Heterosexual Exposure (HET)	96	35.4%	148	37.8%	244	36.8%
Other Exposures	0	0.0%	0	0.0%	0	0.0%
No Reported Exposure*	65		59		124	
TOTAL	336		451		787	

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS		ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS		ADULT/ADOLESCENT TOTAL LIVING HIV CASES	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	192	100.0%	265	100.0%	457	100.0%
Men who have Sex with Men (MSM)	141	73.4%	160	60.4%	301	65.9%
Injection Drug Users (IDU)	14	7.3%	45	17.0%	59	12.9%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	8	4.2%	12	4.5%	20	4.4%
Heterosexual Exposure (HET)	29	15.1%	48	18.1%	77	16.8%
Other Exposures	0	0.0%	0	0.0%	0	0.0%
No Reported Exposure	34		39		73	
TOTAL	226		304		530	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS		ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS		ADULT/ADOLESCENT TOTAL LIVING HIV CASES	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	79	100.0%	127	100.0%	206	100.0%
Injection Drug Users (IDU)	12	15.2%	27	21.3%	39	18.9%
Heterosexual Exposure (HET)	67	84.8%	100	78.7%	167	81.1%
Other Exposures	0	0.0%	0	0.0%	0	0.0%
No Reported Exposure*	31		20		51	
TOTAL	110		147		257	

* Includes 12 HIV cases without AIDS and 10 HIV cases with AIDS with Presumed Female Heterosexual exposure

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

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

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

Table 21 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2015 and Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	35	100.0%	364	100.0%	217	100.0%
Men who have Sex with Men (MSM)	15	42.9%	132	36.3%	130	59.9%
Injection Drug Users (IDU)	***	***	57	15.7%	30	13.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	9	2.5%	5	2.3%
Heterosexual Exposure (HET)	14	40.0%	166	45.6%	52	24.0%
Other Exposures	0	0.0%	0	0.0%	0	0.0%
No Reported Exposure*	8		82		33	
TOTAL	43		446		250	

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	26	100.0%	235	100.0%	163	100.0%
Men who have Sex with Men (MSM)	15	57.7%	132	56.2%	130	79.8%
Injection Drug Users (IDU)	***	***	39	16.6%	12	7.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	9	3.8%	5	3.1%
Heterosexual Exposure (HET)	6	23.1%	55	23.4%	16	9.8%
Other Exposures	0	0.0%	0	0.0%	0	0.0%
No Reported Exposure	7		44		22	
TOTAL	33		279		185	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	9	100.0%	129	100.0%	54	100.0%
Injection Drug Users (IDU)	***	***	18	14.0%	18	33.3%
Heterosexual Exposure (HET)	***	***	111	86.0%	36	66.7%
Other Exposures	0	0.0%	0	0.0%	0	0.0%
No Reported Exposure*	1		38		11	
TOTAL	10		167		65	

* Includes 19 non-Hispanic black cases and 2 non-Hispanic white cases with Presumed Female Heterosexual exposure

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

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

Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2015 and Reported through 6/30/2016

ADULT/ADOLESCENT TOTAL LIVING HIV CASES								
EXPOSURE CATEGORY	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
With Exposure	663	397	59.9%	536	13.6%	14.9%	17.6%	53.9%
Men who have Sex with Men (MSM)	301	168	55.8%	554	11.3%	14.9%	17.9%	56.0%
Injection Drug Users (IDU)	98	61	62.2%	499	14.8%	9.8%	26.2%	49.2%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	20	11	55.0%	369	9.1%	27.3%	36.4%	27.3%
Heterosexual Exposure (HET)	244	157	64.3%	541	15.9%	15.9%	12.7%	55.4%
Other Exposures	0	--	--	--	--	--	--	--
No Reported Exposure*	124	59	47.6%	558	15.3%	20.3%	8.5%	55.9%
TOTAL	787	456	57.9%	537	13.8%	15.6%	16.4%	54.2%

* Includes 22 cases with Presumed Female Heterosexual exposure

Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2015 and Reported through 6/30/2016

ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
EXPOSURE CATEGORY	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Count
With Exposure	663	392	59.1%	79.3%	13,780
Men who have Sex with Men (MSM)	301	172	57.1%	77.3%	5,252
Injection Drug Users (IDU)	98	55	56.1%	89.1%	12,050
Men who have Sex with Men and Inject Drugs (MSM/IDU)	20	10	50.0%	80.0%	978
Heterosexual Exposure (HET)	244	155	63.5%	78.1%	32,717
Other Exposures	0	--	--	--	--
No Reported Exposure*	124	54	43.5%	83.3%	37,850
TOTAL	787	446	56.7%	79.8%	15,310

* Includes 22 cases with Presumed Female Heterosexual exposure

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

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

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).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

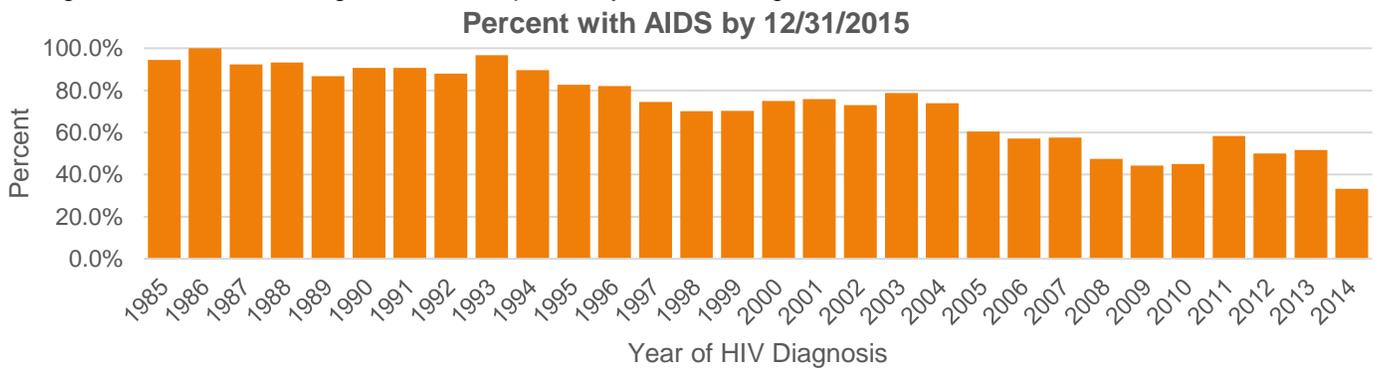
Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Section VIII – Disease Progression and Mortality

Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2014, Reported through 6/30/2016

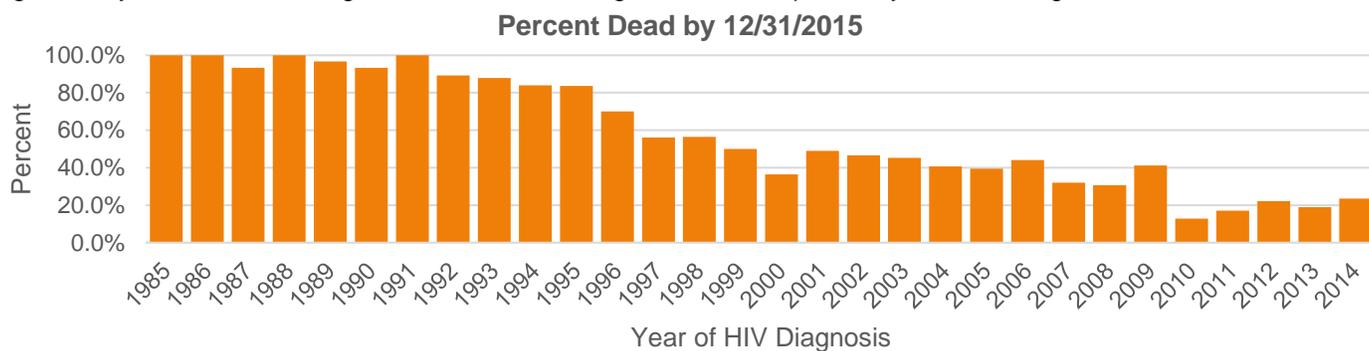
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 06/30/2014 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2015 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2015, 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 2014, as Reported by Name through 6/30/2016



ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								
YEAR OF HIV DIAGNOSIS	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	8	8	100.0%	0.8	87.5%	87.5%	87.5%	100.0%
1985	18	17	94.4%	4.2	55.6%	55.6%	61.1%	83.3%
1986	21	21	100.0%	3.0	52.4%	57.1%	76.2%	95.2%
1987	39	36	92.3%	5.0	35.9%	35.9%	56.4%	76.9%
1988	45	42	93.3%	3.7	48.9%	53.3%	73.3%	82.2%
1989	75	65	86.7%	4.0	40.0%	44.0%	57.3%	81.3%
1990	54	49	90.7%	3.6	38.9%	42.6%	61.1%	83.3%
1991	75	68	90.7%	3.0	45.3%	49.3%	66.7%	86.7%
1992	66	58	87.9%	3.6	40.9%	47.0%	65.2%	80.3%
1993	61	59	96.7%	2.3	54.1%	67.2%	85.2%	91.8%
1994	77	69	89.6%	2.1	63.6%	68.8%	75.3%	83.1%
1995	69	57	82.6%	2.1	52.2%	56.5%	71.0%	81.2%
1996	50	41	82.0%	3.4	44.0%	48.0%	56.0%	76.0%
1997	55	41	74.5%	1.4	56.4%	58.2%	67.3%	72.7%
1998	67	47	70.1%	3.3	41.8%	44.8%	50.7%	59.7%
1999	57	40	70.2%	1.8	56.1%	57.9%	59.6%	64.9%
2000	36	27	75.0%	1.7	50.0%	50.0%	66.7%	72.2%
2001	58	44	75.9%	1.2	58.6%	62.1%	67.2%	75.9%
2002	37	27	73.0%	1.7	51.4%	56.8%	64.9%	67.6%
2003	47	37	78.7%	1.4	61.7%	63.8%	70.2%	78.7%
2004	46	34	73.9%	2.2	50.0%	50.0%	58.7%	71.7%
2005	48	29	60.4%	0.9	52.1%	52.1%	56.3%	60.4%
2006	49	28	57.1%	1.2	46.9%	46.9%	53.1%	--
2007	40	23	57.5%	1.1	47.5%	47.5%	55.0%	--
2008	40	19	47.5%	1.6	32.5%	35.0%	40.0%	--
2009	43	19	44.2%	0.9	39.5%	39.5%	39.5%	--
2010	40	18	45.0%	1.1	35.0%	37.5%	--	--
2011	48	28	58.3%	0.4	52.1%	54.2%	--	--
2012	28	14	50.0%	0.4	46.4%	46.4%	--	--
2013	29	15	51.7%	0.1	51.7%	51.7%	--	--
2014	33	11	33.3%	0.2	30.3%	--	--	--
TOTAL	1,459	1,091	74.8%	2.4	48.3%	51.3%	60.9%	70.9%

Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2014, Reported through 6/30/2016

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/14 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2015 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2015, 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 2014, as Reported by Name through 6/30/2016



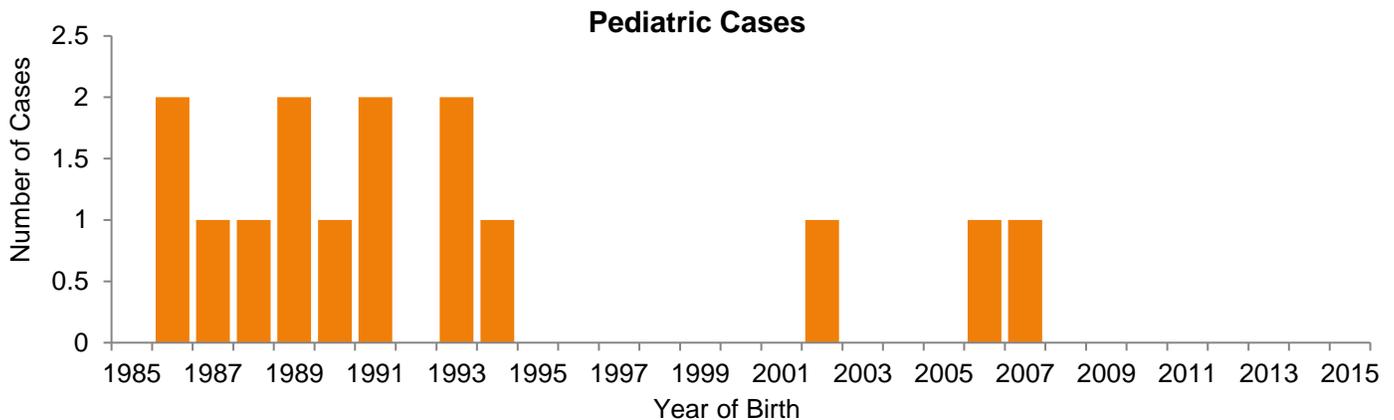
ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES								
YEAR OF HIV DIAGNOSIS	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	7	7	100.0%	0.4	14.3%	0.0%	0.0%	0.0%
1985	10	10	100.0%	0.5	30.0%	0.0%	0.0%	0.0%
1986	9	9	100.0%	0.8	33.3%	22.2%	0.0%	0.0%
1987	15	14	93.3%	2.5	60.0%	40.0%	13.3%	13.3%
1988	21	21	100.0%	1.8	61.9%	28.6%	9.5%	0.0%
1989	31	30	96.8%	2.4	58.1%	45.2%	16.1%	6.5%
1990	30	28	93.3%	2.6	76.7%	50.0%	23.3%	6.7%
1991	38	38	100.0%	2.5	73.7%	42.1%	15.8%	2.6%
1992	37	33	89.2%	2.4	62.2%	40.5%	18.9%	16.2%
1993	58	51	87.9%	2.8	77.6%	53.4%	27.6%	15.5%
1994	81	68	84.0%	4.1	75.3%	63.0%	39.5%	25.9%
1995	61	51	83.6%	4.5	72.1%	62.3%	47.5%	26.2%
1996	40	28	70.0%	4.5	80.0%	75.0%	55.0%	37.5%
1997	57	32	56.1%	6.1	87.7%	80.7%	70.2%	56.1%
1998	46	26	56.5%	4.6	84.8%	80.4%	63.0%	50.0%
1999	42	21	50.0%	5.6	95.2%	88.1%	73.8%	57.1%
2000	33	12	36.4%	3.8	84.8%	78.8%	72.7%	69.7%
2001	51	25	49.0%	4.4	80.4%	78.4%	68.6%	60.8%
2002	30	14	46.7%	4.2	83.3%	76.7%	66.7%	63.3%
2003	42	19	45.2%	2.8	78.6%	71.4%	66.7%	54.8%
2004	32	13	40.6%	3.3	87.5%	78.1%	71.9%	62.5%
2005	38	15	39.5%	2.6	81.6%	81.6%	71.1%	60.5%
2006	34	15	44.1%	2.4	76.5%	73.5%	64.7%	--
2007	25	8	32.0%	2.3	88.0%	88.0%	72.0%	--
2008	36	11	30.6%	1.9	83.3%	80.6%	72.2%	--
2009	17	7	41.2%	0.5	64.7%	58.8%	58.8%	--
2010	31	4	12.9%	1.2	93.5%	90.3%	87.1%	--
2011	35	6	17.1%	1.9	91.4%	91.4%	--	--
2012	27	6	22.2%	0.8	85.2%	81.5%	--	--
2013	21	4	19.0%	0.3	81.0%	81.0%	--	--
2014*	17	4	23.5%	0.2	76.5%	--	--	--
TOTAL	1,052	630	59.9%	3.3	78.0%	68.2%	54.0%	44.7%

*2014 reported AIDS deaths are preliminary.

Section IX – Pediatric Cases

Figure 12 – Trends in Pediatric HIV Cases, 1985-2015, Reported through 6/30/2016

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 2015, as Reported by Name through 6/30/2016



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 12/31 of Each Year
<1985	6	0	0	0	
1985	0	1	1	0	1
1986	2	1	0	0	2
1987	1	0	0	0	2
1988	1	1	0	0	3
1989	2	0	0	1	2
1990	1	1	0	0	3
1991	2	5	1	0	8
1992	0	3	2	1	10
1993	2	1	1	0	11
1994	1	1	2	0	12
1995	0	0	0	2	10
1996	0	1	1	1	9
1997	0	1	0	0	10
1998	0	0	0	0	10
1999	0	1	0	0	11
2000	0	0	0	0	11
2001	0	0	1	0	11
2002	1	0	1	0	11
2003	0	0	0	0	11
2004	0	1	0	0	12
2005	0	0	0	0	12
2006	1	0	0	1	11
2007	1	1	0	0	12
2008	0	0	1	0	12
2009	0	1	0	0	13
2010	0	1	0	0	14
2011	0	0	0	0	14
2012	0	0	1	0	13
2013	0	0	0	0	13
2014	0	0	0	0	13
2015	0	0	0	0	13
TOTAL	21	21	12	6	

Table 24 – Pediatric HIV Total Living HIV Cases, Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Caroline	1	7.7%
Cecil	2	15.4%
Dorchester	4	30.8%
Kent	1	7.7%
Queen Anne's	0	0.0%
Somerset	1	7.7%
Talbot	2	15.4%
Wicomico	1	7.7%
Worcester	1	7.7%
TOTAL	13	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis for pediatric reported HIV diagnoses, and jurisdiction of residence at later of time of initial HIV diagnosis or initial AIDS diagnosis for pediatric total living HIV cases.

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.

Table 25 – Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016

SEX AT BIRTH	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Male	7	53.8%
Female	6	46.2%
TOTAL	13	100.0%

RACE/ETHNICITY	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Hispanic	1	7.7%
Non-Hispanic	12	92.3%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	5	41.7%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	7	58.3%
Multiracial/Other	0	0.0%
TOTAL	13	100.0%

Pediatric Reported HIV Diagnoses: Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

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.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, 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 at HIV diagnosis, 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 at HIV diagnosis, 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).

Current Residence: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-6/30/2016.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Jurisdiction of Residence: Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.

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 of 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.

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 (to AIDS 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: The measure of central location, which divides a set of data into two equal parts.

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

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Pediatric Reported HIV Diagnoses: Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

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 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 (for AIDS diagnoses): 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 Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2015.

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 7/1/2015.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

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, reported through 6/30/2016.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

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.

Retained in HIV Care: HIV Diagnosed with a CD4 test result measured in the specified year, reported through 6/30/2016.

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.