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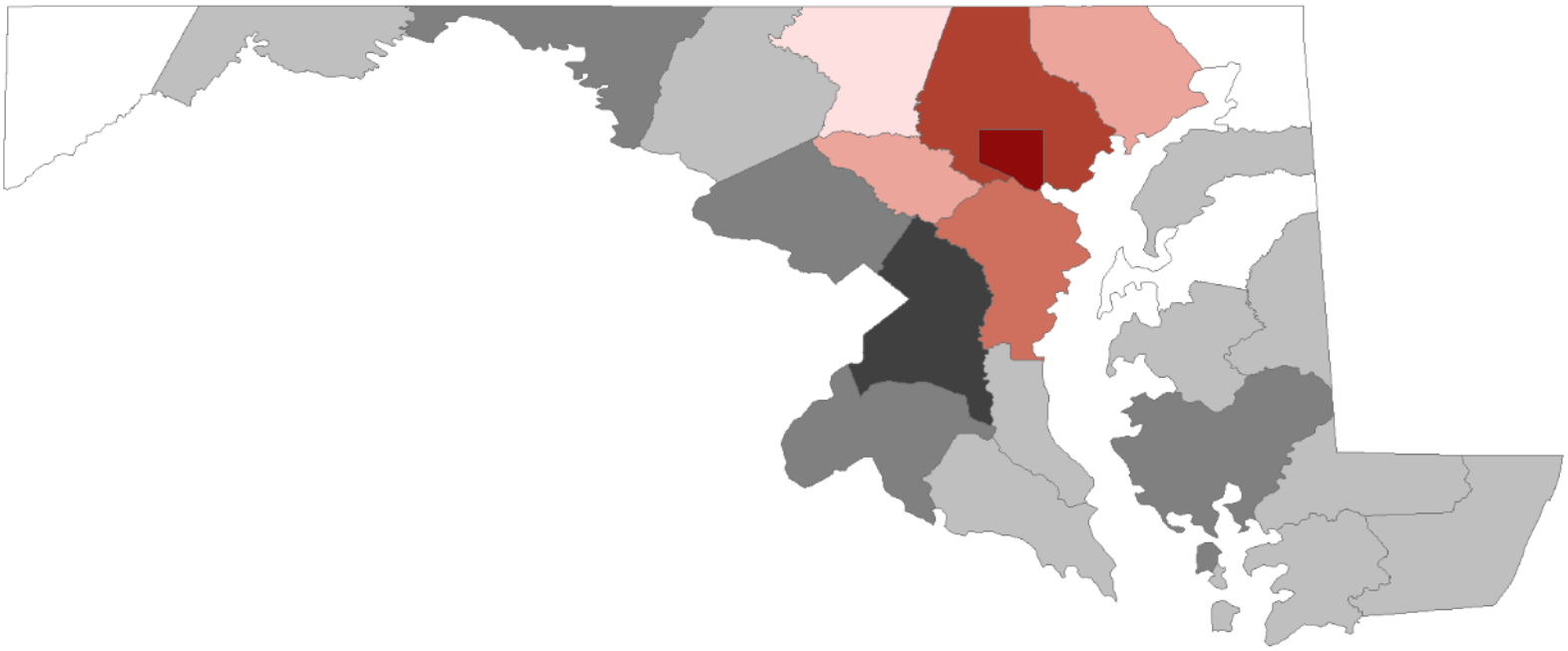

Central Region HIV Annual Epidemiological Profile

Data reported through December 31, 2015

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. Nationally, it has been estimated that 12.8% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 18.7% 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. In addition, 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.

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 (the end of the year) are used to generate the number of diagnoses during the prior years. This one-year lag allows for delays in reporting and time to complete investigations. For example, the Reported HIV Diagnoses for 2014 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 01/01/2014-12/31/2014, as reported by name through 12/31/2015.

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 12/31/2015 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 12/31/2015.

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), December 31, 2015.

Population data by sex, age, and race/ethnicity are from the July 1, 2014 U.S. Census Estimates and by country-of-birth from the 2013 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.

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.

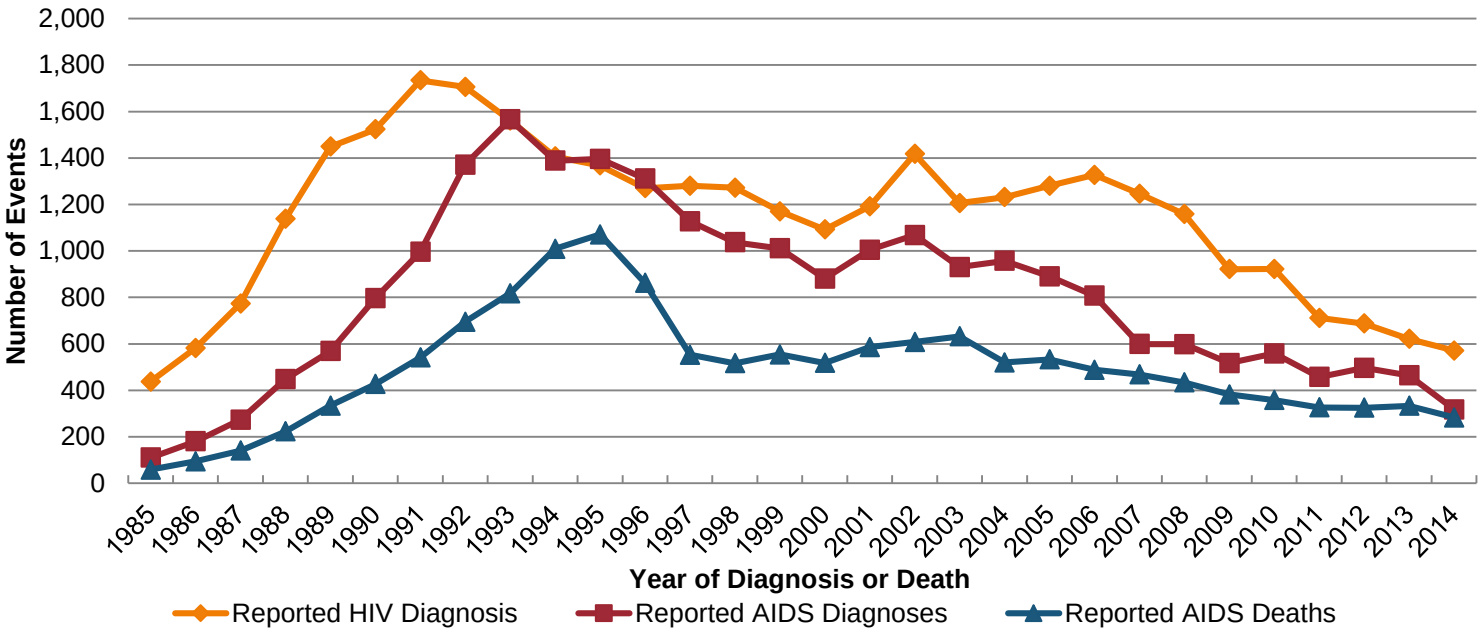
Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or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

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

Section II – Trends 1985-2014

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2014, Reported through 12/31/2015

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 2014 as Reported through 12/31/2015

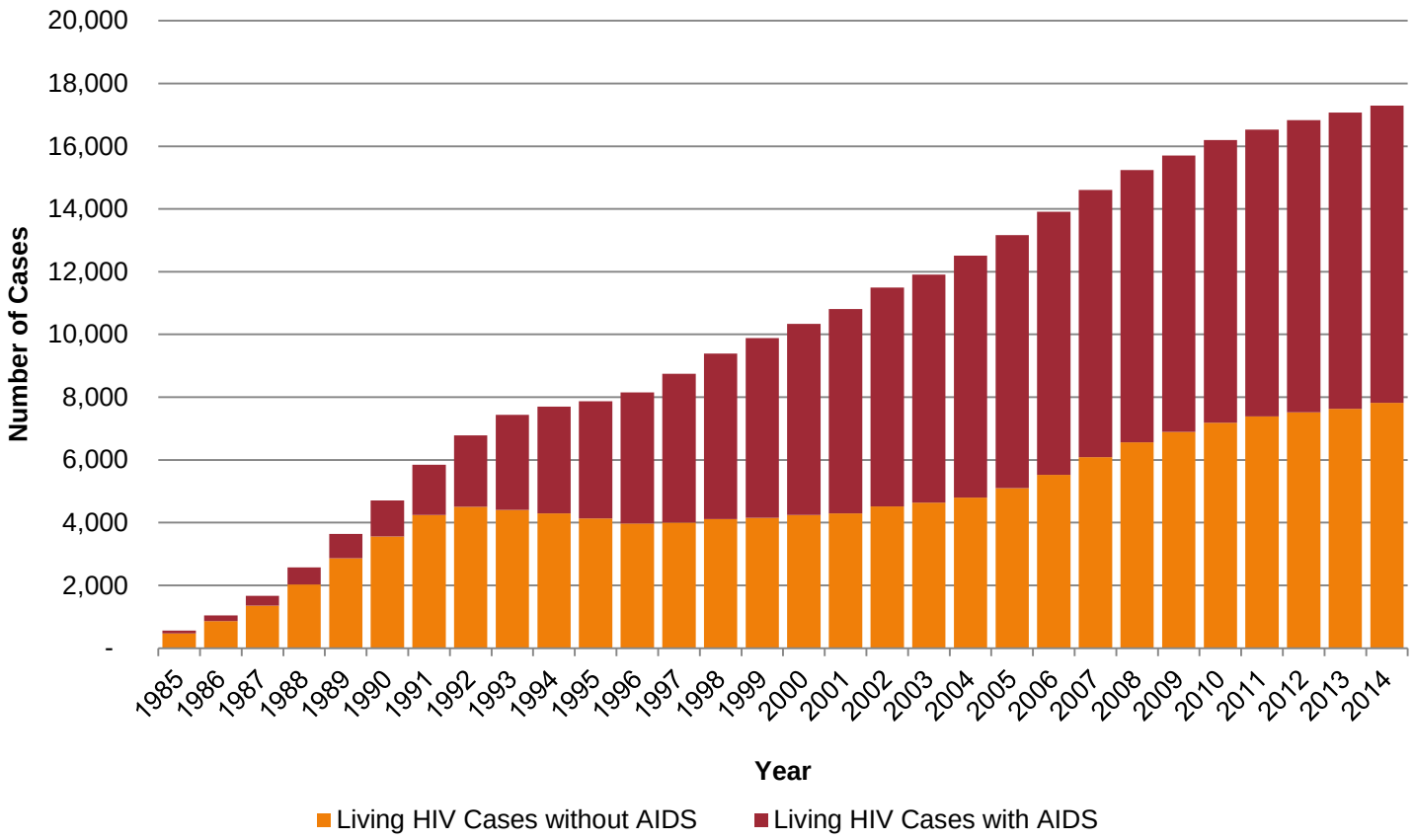


During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008

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	222	78	36	**2000**	1,092	881	518
1985	437	110	58	**2001**	1,192	1,005	586
1986	582	180	94	**2002**	1,417	1,068	608
1987	773	273	140	**2003**	1,206	930	632
1988	1,138	448	223	**2004**	1,231	957	520
1989	1,449	569	334	**2005**	1,280	890	533
1990	1,523	797	427	**2006**	1,327	807	488
1991	1,734	996	541	**2007**	1,246	599	468
1992	1,706	1,371	695	**2008**	1,158	598	434
1993	1,561	1,566	817	**2009**	921	517	382
1994	1,406	1,388	1,009	**2010**	922	558	358
1995	1,368	1,396	1,071	**2011**	711	457	326
1996	1,270	1,311	862	**2012**	687	496	325
1997	1,280	1,127	553	**2013**	621	464	333
1998	1,272	1,037	516	**2014**	571	317	283
1999	1,170	1,011	554	**Total**	34,473	24,202	14,724

Figure 2 – Trends in Living HIV Cases, 1985-2014, Reported through 12/31/2015

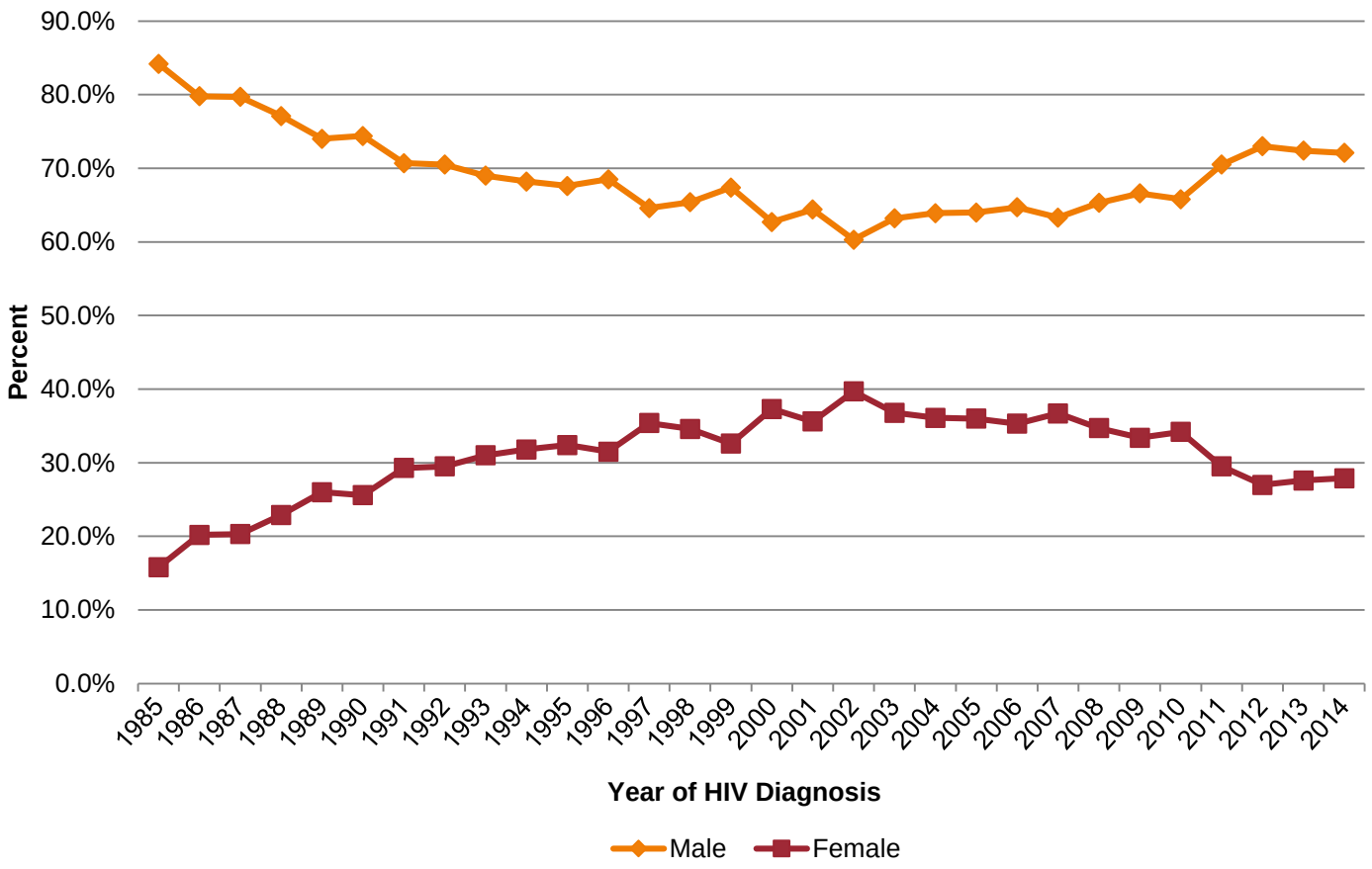
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2014, as Reported through 12/31/2015



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	470	94	564	**2000**	4,246	6,093	10,339
1986	864	180	1,044	**2001**	4,299	6,512	10,811
1987	1,356	314	1,670	**2002**	4,518	6,972	11,490
1988	2,032	539	2,571	**2003**	4,635	7,270	11,905
1989	2,868	774	3,642	**2004**	4,804	7,707	12,511
1990	3,562	1,144	4,706	**2005**	5,100	8,064	13,164
1991	4,246	1,599	5,845	**2006**	5,528	8,384	13,912
1992	4,503	2,275	6,778	**2007**	6,086	8,515	14,601
1993	4,409	3,024	7,433	**2008**	6,562	8,679	15,241
1994	4,299	3,404	7,703	**2009**	6,893	8,814	15,707
1995	4,137	3,729	7,866	**2010**	7,182	9,014	16,196
1996	3,975	4,178	8,153	**2011**	7,382	9,145	16,527
1997	3,999	4,752	8,751	**2012**	7,518	9,316	16,834
1998	4,116	5,273	9,389	**2013**	7,625	9,447	17,072
1999	4,154	5,730	9,884	**2014**	7,817	9,481	17,298

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2014, Reported through 12/31/2015

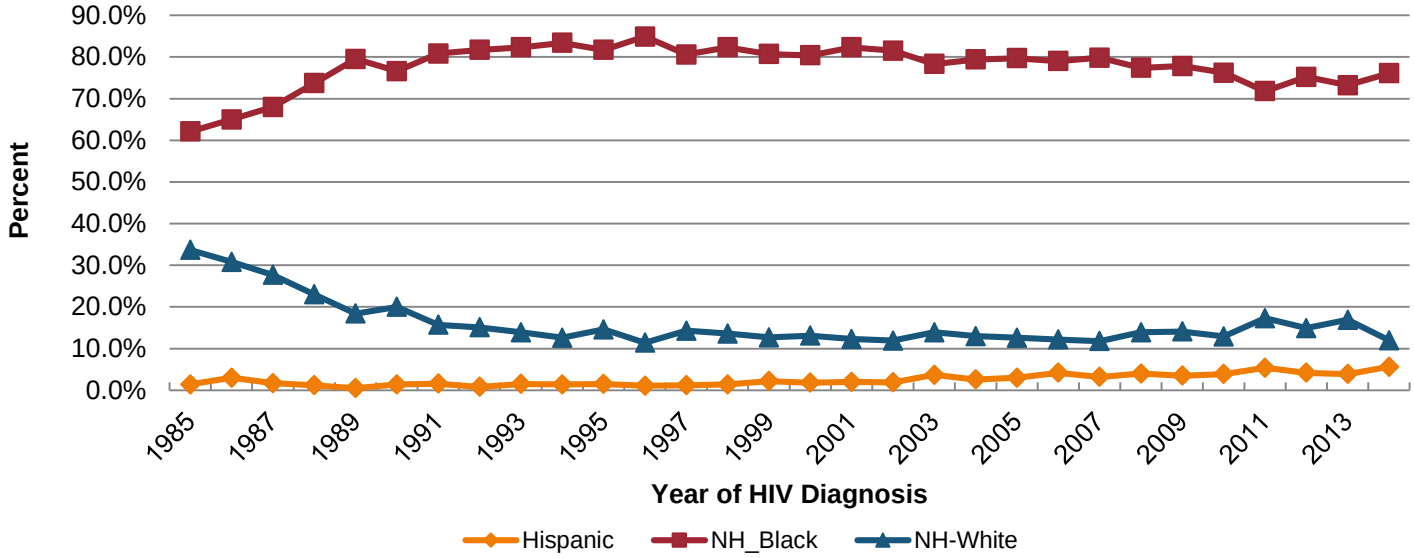
Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2014, as Reported through 12/31/2015



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	220	85.9%	14.1%	**2000**	1,084	62.7%	37.3%
1985	430	84.2%	15.8%	**2001**	1,183	64.4%	35.6%
1986	575	79.8%	20.2%	**2002**	1,409	60.3%	39.7%
1987	757	79.7%	20.3%	**2003**	1,204	63.2%	36.8%
1988	1,116	77.1%	22.9%	**2004**	1,226	63.9%	36.1%
1989	1,421	74.0%	26.0%	**2005**	1,279	64.0%	36.0%
1990	1,486	74.4%	25.6%	**2006**	1,322	64.7%	35.3%
1991	1,697	70.7%	29.3%	**2007**	1,215	63.3%	36.7%
1992	1,660	70.5%	29.5%	**2008**	1,150	65.3%	34.7%
1993	1,515	69.0%	31.0%	**2009**	915	66.6%	33.4%
1994	1,376	68.2%	31.8%	**2010**	919	65.8%	34.2%
1995	1,349	67.6%	32.4%	**2011**	709	70.5%	29.5%
1996	1,250	68.5%	31.5%	**2012**	685	73.0%	27.0%
1997	1,270	64.6%	35.4%	**2013**	620	72.4%	27.6%
1998	1,257	65.4%	34.6%	**2014**	569	72.1%	27.9%
1999	1,155	67.4%	32.6%	**Total**	34,023	68.4%	31.6%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2014, Reported through 12/31/2015

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 2014, as Reported through 12/31/2015

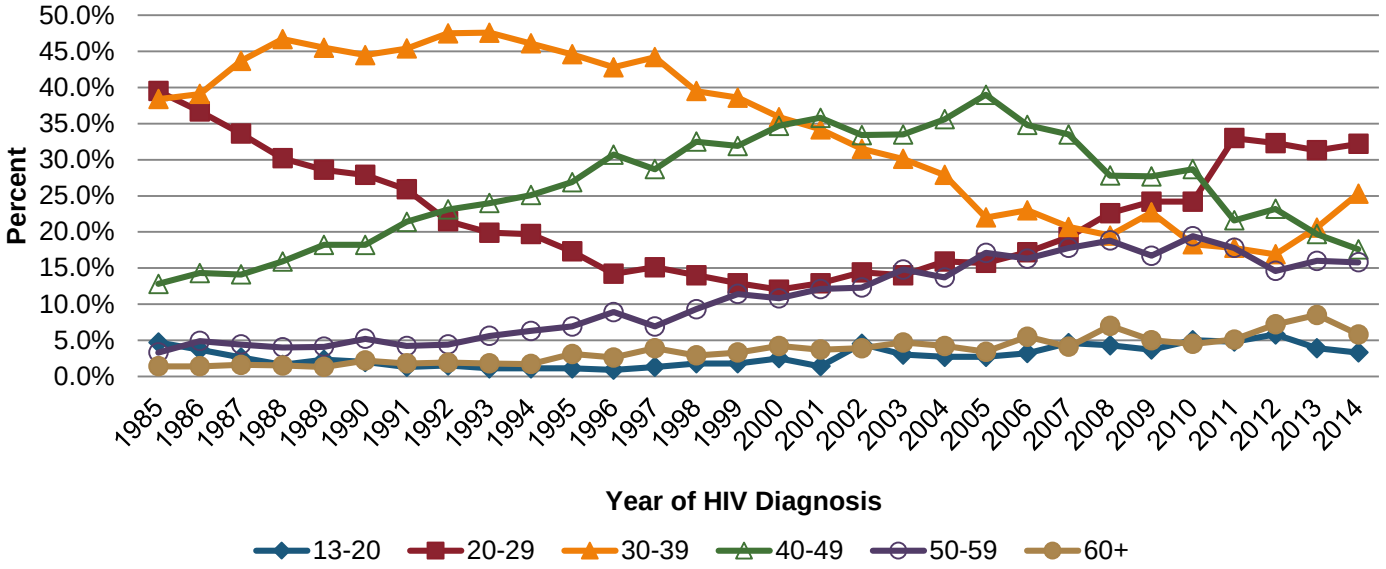


Non-Hispanic Other race not shown

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses				
	No.	% Hispanic	% Non-Hispanic Black, only	% Non-Hispanic White, only	% Non-Hispanic Other Race
<1985	220	2.7%	53.6%	41.4%	2.3%
1985	430	1.4%	62.1%	33.7%	2.8%
1986	575	3.0%	65.0%	30.8%	1.2%
1987	757	1.7%	68.0%	27.7%	2.5%
1988	1,116	1.2%	73.7%	23.0%	2.2%
1989	1,421	0.5%	79.5%	18.4%	1.7%
1990	1,486	1.4%	76.6%	20.0%	2.0%
1991	1,697	1.6%	80.8%	15.7%	1.9%
1992	1,660	0.8%	81.7%	15.1%	2.3%
1993	1,515	1.5%	82.3%	13.9%	2.4%
1994	1,376	1.4%	83.4%	12.6%	2.6%
1995	1,349	1.5%	81.7%	14.6%	2.2%
1996	1,250	1.1%	84.9%	11.4%	2.6%
1997	1,270	1.2%	80.6%	14.3%	3.9%
1998	1,257	1.4%	82.3%	13.6%	2.8%
1999	1,155	2.2%	80.7%	12.7%	4.4%
2000	1,084	1.8%	80.4%	13.1%	4.7%
2001	1,183	2.0%	82.3%	12.3%	3.3%
2002	1,409	1.9%	81.5%	11.9%	4.6%
2003	1,204	3.7%	78.3%	13.9%	4.2%
2004	1,226	2.6%	79.4%	13.0%	5.1%
2005	1,279	3.0%	79.7%	12.6%	4.8%
2006	1,322	4.2%	79.0%	12.2%	4.6%
2007	1,215	3.2%	79.8%	11.8%	5.3%
2008	1,150	4.0%	77.4%	13.9%	4.7%
2009	915	3.5%	77.8%	14.1%	4.6%
2010	919	3.9%	76.2%	12.9%	7.0%
2011	709	5.4%	71.8%	17.3%	5.5%
2012	685	4.2%	75.2%	14.9%	5.7%
2013	620	3.9%	73.2%	16.9%	6.0%
2014	569	5.6%	76.1%	12.0%	6.3%
Total	34,023	2.3%	78.8%	15.4%	3.6%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2014, Reported through 12/31/2015

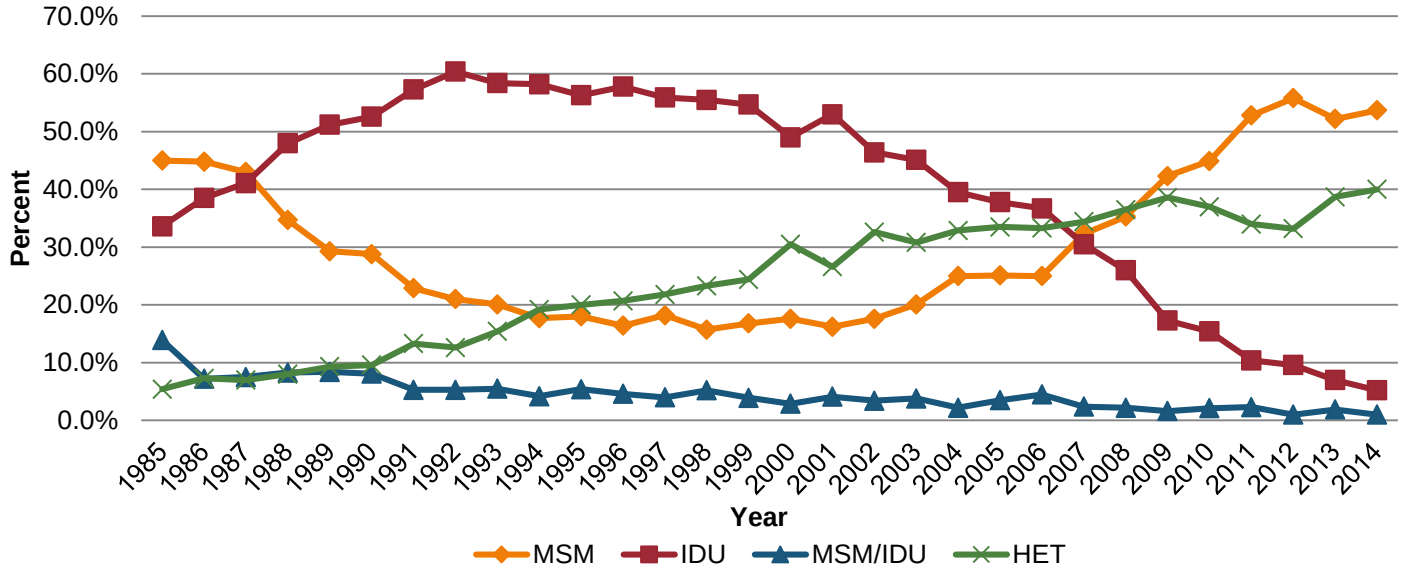
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2014, as Reported through 12/31/2015



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	220	5.9%	43.2%	31.4%	13.2%	5.9%	0.5%
1985	430	4.7%	39.5%	38.4%	12.8%	3.3%	1.4%
1986	575	3.7%	36.7%	39.1%	14.3%	4.9%	1.4%
1987	757	2.6%	33.6%	43.7%	14.1%	4.4%	1.6%
1988	1,116	1.6%	30.2%	46.7%	15.9%	4.0%	1.5%
1989	1,421	2.3%	28.6%	45.5%	18.2%	4.1%	1.3%
1990	1,486	2.0%	27.9%	44.5%	18.2%	5.2%	2.2%
1991	1,697	1.3%	25.9%	45.4%	21.4%	4.2%	1.8%
1992	1,660	1.5%	21.5%	47.5%	23.1%	4.4%	1.9%
1993	1,515	1.1%	19.9%	47.6%	24.0%	5.6%	1.8%
1994	1,376	1.1%	19.7%	46.1%	25.1%	6.3%	1.7%
1995	1,349	1.1%	17.3%	44.6%	26.9%	6.9%	3.1%
1996	1,250	0.9%	14.2%	42.8%	30.7%	8.9%	2.6%
1997	1,270	1.3%	15.1%	44.2%	28.7%	6.9%	3.9%
1998	1,257	1.8%	14.0%	39.5%	32.5%	9.3%	2.9%
1999	1,155	1.8%	12.9%	38.6%	31.9%	11.4%	3.3%
2000	1,084	2.5%	12.0%	35.9%	34.7%	10.8%	4.2%
2001	1,183	1.4%	12.9%	34.2%	35.8%	12.1%	3.7%
2002	1,409	4.5%	14.4%	31.5%	33.4%	12.3%	3.9%
2003	1,204	3.0%	14.0%	30.1%	33.5%	14.8%	4.7%
2004	1,226	2.7%	15.9%	27.9%	35.6%	13.7%	4.2%
2005	1,279	2.7%	15.7%	22.0%	39.0%	17.1%	3.4%
2006	1,322	3.2%	17.2%	23.0%	34.8%	16.3%	5.5%
2007	1,215	4.6%	19.3%	20.7%	33.5%	17.8%	4.1%
2008	1,150	4.3%	22.6%	19.5%	27.8%	18.8%	7.0%
2009	915	3.7%	24.2%	22.7%	27.7%	16.7%	5.0%
2010	919	5.0%	24.2%	18.3%	28.7%	19.4%	4.5%
2011	709	4.8%	33.0%	17.8%	21.6%	17.8%	5.1%
2012	685	5.8%	32.3%	16.9%	23.2%	14.6%	7.2%
2013	620	3.9%	31.3%	20.6%	19.7%	16.0%	8.5%
2014	569	3.3%	32.2%	25.3%	17.6%	15.8%	5.8%
Total	34,023	2.6%	21.3%	35.5%	27.0%	10.3%	3.4%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2014, Reported through 12/31/2015

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 2014, as Reported through 12/31/2015



Year	Adult/Adolescent Reported HIV Diagnoses						
	No.	With Exposure Category					
		No.	% MSM	% IDU	% MSM/IDU	% HET	% Other Exposure
<1985	220	215	56.3%	27.9%	7.9%	3.7%	4.2%
1985	430	411	45.0%	33.6%	13.9%	5.4%	2.2%
1986	575	558	44.8%	38.5%	7.2%	7.3%	2.2%
1987	757	733	43.0%	41.1%	7.5%	7.0%	1.5%
1988	1,116	1,078	34.7%	48.0%	8.3%	8.0%	1.1%
1989	1,421	1,380	29.3%	51.2%	8.4%	9.3%	1.7%
1990	1,486	1,427	28.8%	52.6%	8.1%	9.6%	0.9%
1991	1,697	1,619	22.9%	57.3%	5.3%	13.3%	1.2%
1992	1,660	1,575	21.0%	60.4%	5.3%	12.6%	0.8%
1993	1,515	1,465	20.1%	58.4%	5.5%	15.4%	0.6%
1994	1,376	1,313	17.7%	58.2%	4.2%	19.2%	0.7%
1995	1,349	1,287	18.0%	56.3%	5.4%	20.0%	0.3%
1996	1,250	1,188	16.4%	57.8%	4.6%	20.7%	0.4%
1997	1,270	1,177	18.2%	55.9%	4.0%	21.8%	0.2%
1998	1,257	1,169	15.7%	55.5%	5.2%	23.3%	0.3%
1999	1,155	1,053	16.8%	54.7%	3.9%	24.4%	0.2%
2000	1,084	978	17.6%	49.0%	2.9%	30.5%	0.1%
2001	1,183	1,059	16.2%	53.0%	4.1%	26.6%	0.1%
2002	1,409	1,207	17.6%	46.4%	3.4%	32.6%	0.1%
2003	1,204	1,060	20.1%	45.1%	3.8%	30.8%	0.3%
2004	1,226	1,063	25.0%	39.5%	2.2%	32.9%	0.4%
2005	1,279	1,029	25.1%	37.8%	3.5%	33.5%	0.1%
2006	1,322	983	25.0%	36.7%	4.5%	33.3%	0.5%
2007	1,215	868	32.3%	30.5%	2.4%	34.4%	0.3%
2008	1,150	765	35.3%	26.0%	2.2%	36.5%	0.0%
2009	915	549	42.3%	17.3%	1.6%	38.6%	0.2%
2010	919	514	44.9%	15.4%	2.1%	37.0%	0.6%
2011	709	441	52.8%	10.4%	2.3%	34.0%	0.5%
2012	685	500	55.8%	9.6%	1.0%	33.2%	0.4%
2013	620	527	52.2%	7.0%	1.9%	38.7%	0.2%
2014	569	482	53.7%	5.2%	1.0%	40.0%	0.0%
Total	34,023	29,673	26.6%	45.6%	4.8%	22.5%	0.6%

Section III – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 12/31/2015

Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late HIV Diagnosis	% Late HIV Diagnosis	No. with Test	% with Test	Median Count
Anne Arundel	468,309	51	9.0%	10.9	42	82.4%	12	23.5%	44	86.3%	301
Baltimore City	523,281	303	53.3%	57.9	237	78.2%	81	26.7%	240	79.2%	396
Baltimore	698,028	160	28.1%	22.9	133	83.1%	40	25.0%	131	81.9%	395
Carroll	142,505	6	1.1%	4.2	6	100.0%	***	***	***	***	***
Harford	210,360	25	4.4%	11.9	22	88.0%	7	28.0%	21	84.0%	584
Howard	256,471	24	4.2%	9.4	17	70.8%	***	***	***	***	***
Total	2,298,954	569	100.0%	24.8	457	80.3%	150	26.4%	460	80.8%	387

*** Data withheld due to low population counts 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.
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 7/1/2014.
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 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 12/31/2015

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Anne Arundel	468,309	22	7.0%	4.7	6.7	50.0%
Baltimore City	523,281	197	62.5%	37.6	4.6	44.2%
Baltimore	698,028	65	20.6%	9.3	3.9	53.8%
Carroll	142,505	4	1.3%	2.8	***	***
Harford	210,360	14	4.4%	6.7	2.9	50.0%
Howard	256,471	13	4.1%	5.1	2.3	61.5%
Total	2,298,954	315	100.0%	13.7	4.4	47.9%

*** Data withheld due to low population counts 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.
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 7/1/2014.
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 12/31/2014, by Jurisdiction, Reported through 12/31/2015

Jurisdiction of Residence at Diagnosis	Population Age 13+	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Anne Arundel	468,309	496	6.5%	105.9	618	6.6%	132.0	1,114	6.6%	237.9	420
Baltimore City	523,281	5,446	71.1%	1,040.7	6,717	72.0%	1,283.6	12,163	71.6%	2,324.4	43
Baltimore	698,028	1,223	16.0%	175.2	1,444	15.5%	206.9	2,667	15.7%	382.1	261
Carroll	142,505	55	0.7%	38.6	68	0.7%	47.7	123	0.7%	86.3	1,158
Harford	210,360	186	2.4%	88.4	226	2.4%	107.4	412	2.4%	195.9	510
Howard	256,471	254	3.3%	99.0	250	2.7%	97.5	504	3.0%	196.5	508
Total	2,298,954	7,660	100.0%	333.2	9,323	100.0%	405.5	16,983	100.0%	738.7	135

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 to13 years old, estimate for 7/1/2014.
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 12/31/2014, by Jurisdiction and Current Residence, Reported through 12/31/2015

ADULT/ADOLESCENT LIVING HIV CASES WITH OR WITHOUT AIDS DIAGNOSIS															
JURISDICTION OF RESIDENCE	Population Age 13+	Residence at HIV Diagnosis				Last Known Residence				% Change	Current Residence 2009-2015				% Change
		No.	% of Total	Rate	Ratio	No.	% of Total	Rate	Ratio		No.	% of Total	Rate	Ratio	
Anne Arundel	468,309	1,114	6.6%	237.9	420	1,292	7.1%	275.9	362	13.8%	1,073	7.2%	229.1	436	-3.8%
Baltimore City	523,281	12,163	71.6%	2,324.4	43	12,209	67.2%	2,333.2	42	0.4%	9,973	66.6%	1,905.9	52	-22.0%
Baltimore	698,028	2,667	15.7%	382.1	261	3,428	18.9%	491.1	203	22.2%	2,918	19.5%	418.0	239	8.6%
Carroll	142,505	123	0.7%	86.3	1,158	137	0.8%	96.1	1,040	10.2%	106	0.7%	74.4	1,344	-16.0%
Harford	210,360	412	2.4%	195.9	510	485	2.7%	230.6	433	15.1%	405	2.7%	192.5	519	-1.7%
Howard	256,471	504	3.0%	196.5	508	610	3.4%	237.8	420	17.4%	500	3.3%	195.0	512	-0.8%
TOTAL	2,298,954	16,983	100.0%	738.7	135	18,161	100.0%	790.0	126	6.5%	14,975	100.0%	651.4	153	-13.4%

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 7/1/2014.
Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.
Last Known Residence: Jurisdiction of residence from the most recent laboratory test or case report, reported through 12/31/2015.
Current Residence 2009-2015: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-12/31/2015.
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.
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 12/31/2014, Reported through 12/31/2015

Jurisdiction of Residence at Diagnosis	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Anne Arundel	1,114	623	55.9%	526	12.5%	16.9%	17.5%	53.1%
Baltimore City	12,163	7,310	60.1%	525	13.3%	14.7%	18.7%	53.3%
Baltimore	2,667	1,614	60.5%	527	13.6%	13.5%	19.1%	53.8%
Carroll	123	60	48.8%	566	18.3%	6.7%	20.0%	55.0%
Harford	412	256	62.1%	558	17.6%	11.7%	16.0%	54.7%
Howard	504	282	56.0%	577	13.1%	9.6%	17.4%	59.9%
Total	16,983	10,145	59.7%	528	13.4%	14.4%	18.6%	53.6%

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 reported in the 12 months prior to 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.
Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.
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).

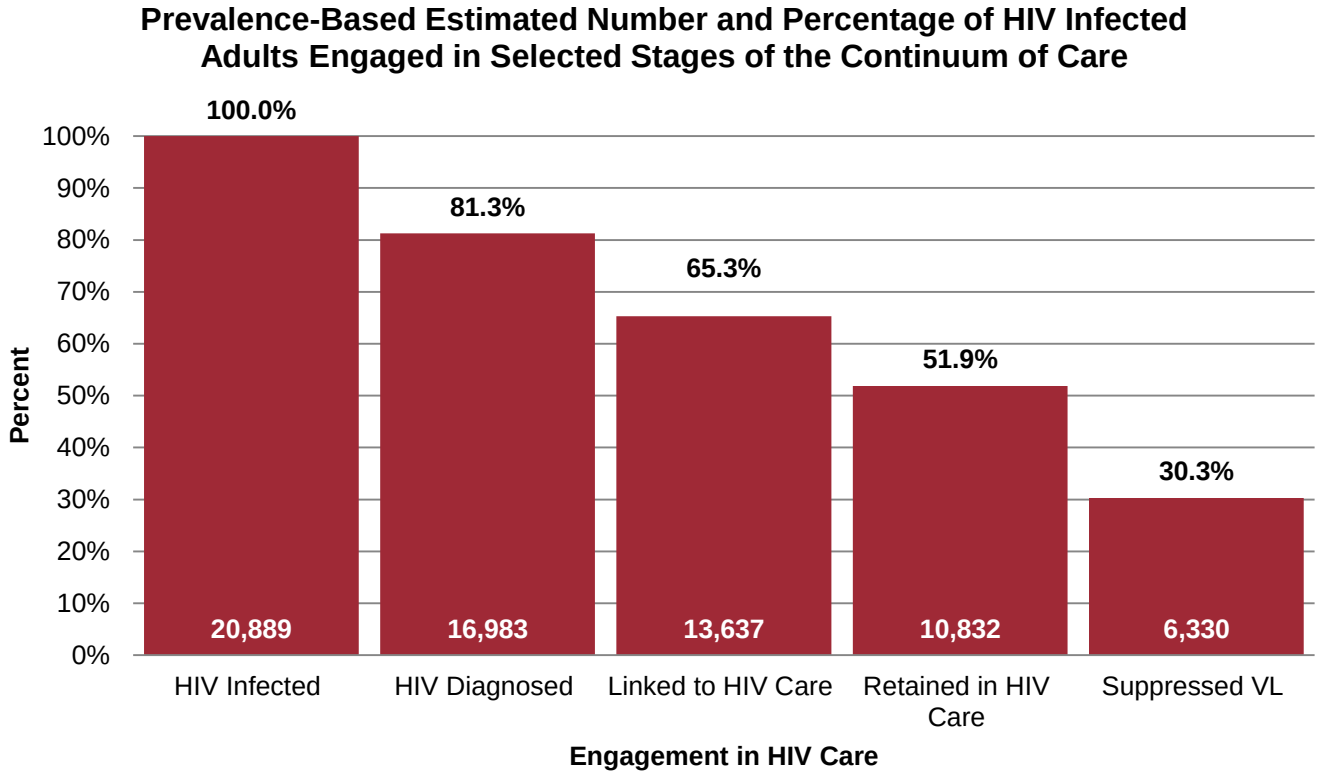
Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015

Jurisdiction of Residence at Diagnosis	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Anne Arundel	1,114	558	50.1%	74.0%	10,735
Baltimore City	12,163	6,289	51.7%	70.8%	8,244
Baltimore	2,667	1,393	52.2%	74.0%	12,511
Carroll	123	55	44.7%	76.4%	21,080
Harford	412	224	54.4%	78.1%	15,136
Howard	504	272	54.0%	78.3%	7,838
Total	16,983	8,791	51.8%	72.0%	9,550

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 reported in the 12 months prior to December 31st of the specified year.
Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.
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 reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, Reported through 12/31/2015

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 Central Region Engagement in HIV Care Cascade (below) uses a CDC estimate of the number of undiagnosed persons in Maryland (18.7%)[2] to generate an estimated number of HIV infected persons in the Central Region. It then uses local data to describe the number and percentage of persons living with HIV in the Central Region who belong to each of the stages of engagement in HIV care.



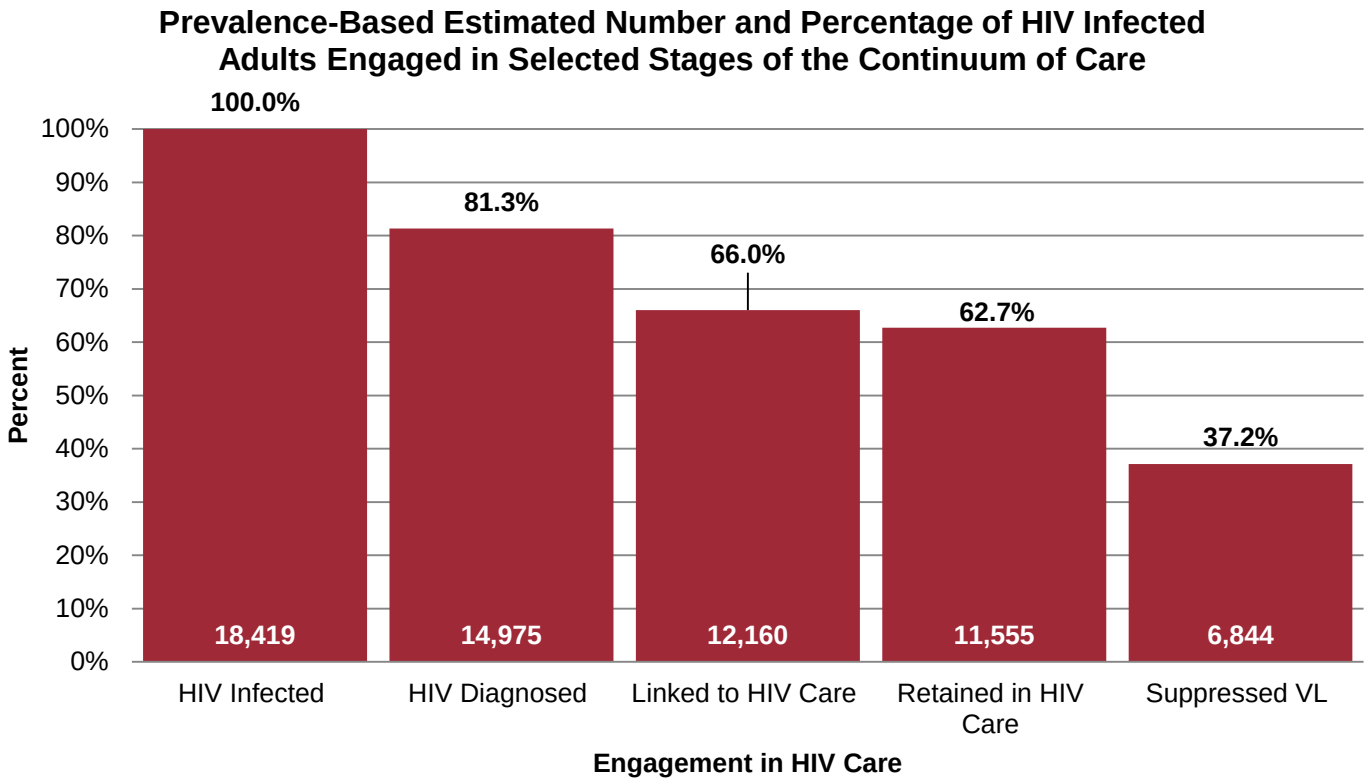
Continuum of Care Stage	Number	Percentage
HIV Infected	20,889	100.0%
HIV Diagnosed	16,983	81.3%
Linked to HIV Care	13,637	65.3%
Retained in HIV Care	10,832	51.9%
Suppressed VL	6,330	30.3%

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (18.7%) 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 reported in the 12 months prior to December 31st of the specified year.
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.

[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, Morbidity and Mortality Weekly Report, June 2015.

Figure 7A – Prevalence-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, by Current Residence, Reported through 12/31/2015

The prevalence based Central Region Engagement in HIV Care Cascade (below) uses a CDC estimate of the number of undiagnosed persons in Maryland (18.7%)[1] to generate an estimated number of HIV infected persons in the Central Region. It then uses local data for current Central Region residents to describe the number and percentage of persons living with HIV in the Central Region who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Number	Percentage
HIV Infected	18,419	100.0%
HIV Diagnosed	14,975	81.3%
Linked to HIV Care	12,160	66.0%
Retained in HIV Care	11,555	62.7%
Suppressed VL	6,844	37.2%

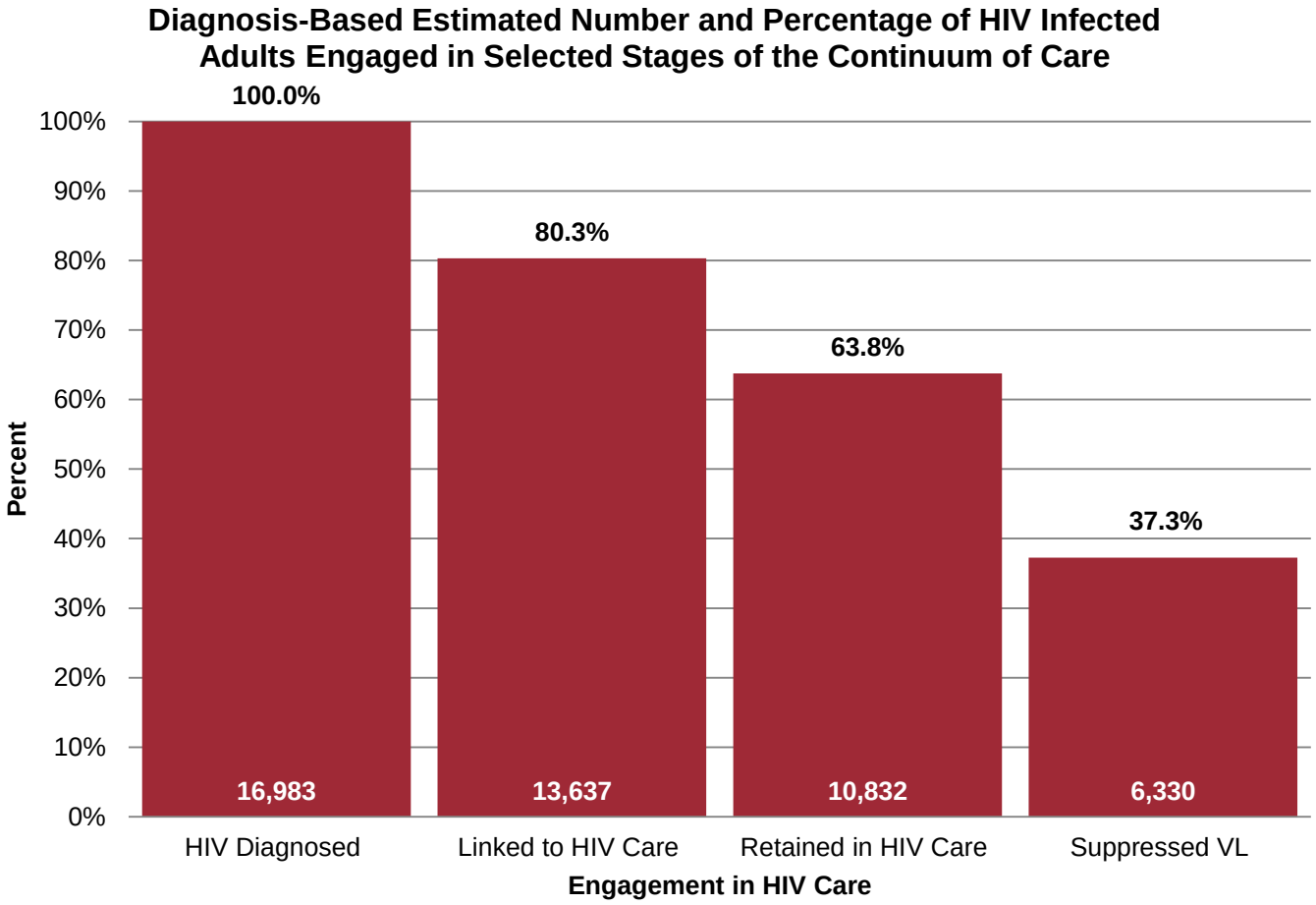
HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (18.7%) in Maryland.
HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2015.
Linked to HIV Care: HIV Diagnosed multiplied 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 reported in the 12 months prior to December 31st of the specified year.
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, Morbidity and Mortality Weekly Report, June 2015.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, Reported through 12/31/2015

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



Continuum of Care Stage	Number	Percentage
HIV Diagnosed	16,983	100.0%
Linked to HIV Care	13,637	80.3%
Retained in HIV Care	10,832	63.8%
Suppressed VL	6,330	37.3%

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

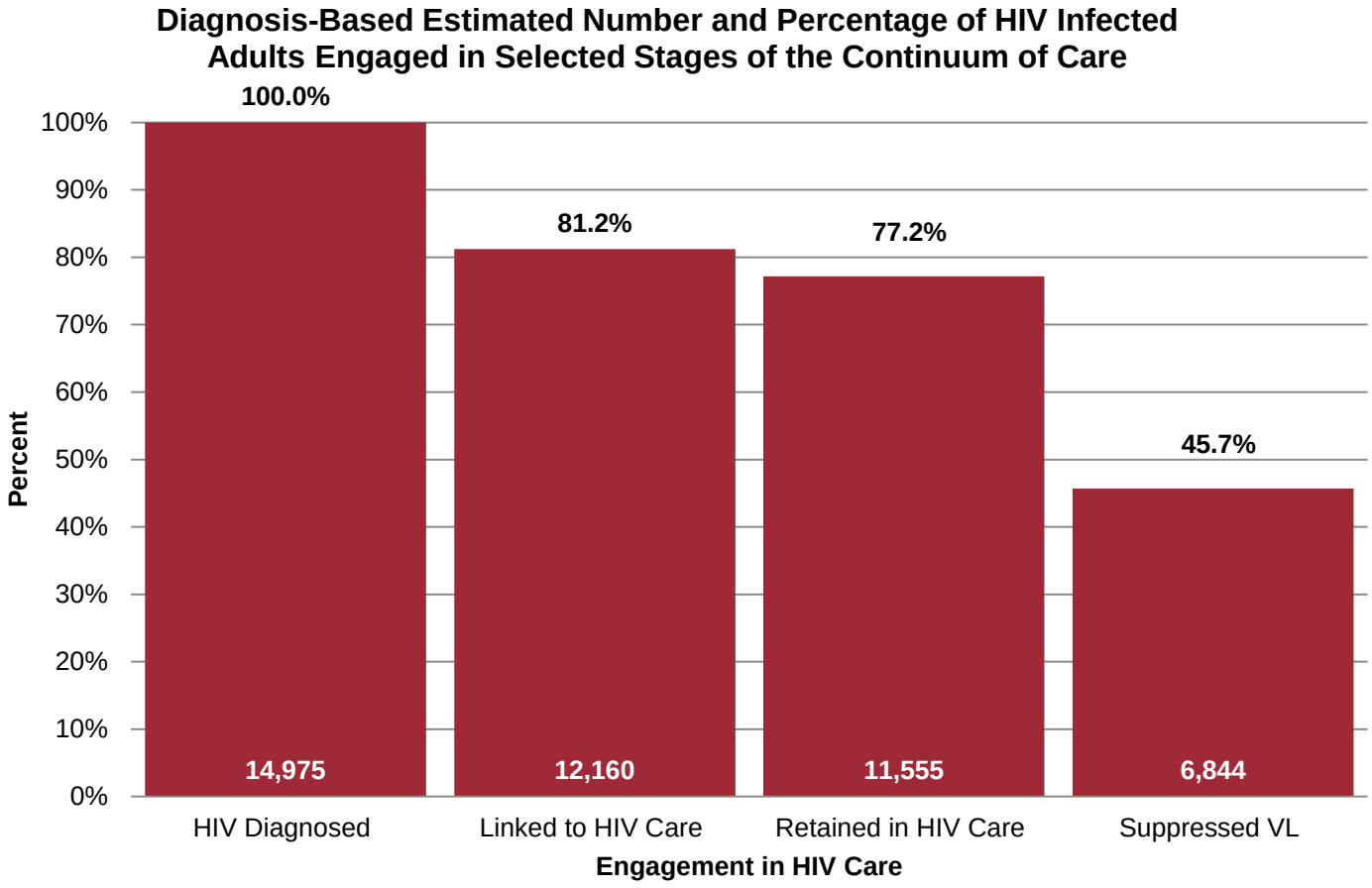
Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result reported in the 12 months prior to December 31st of the specified year

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.

Figure 8A – Diagnosis-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, by Current Residence, Reported through 12/31/2015

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



Continuum of Care Stage	Number	Percentage
HIV Diagnosed	14,975	100.0%
Linked to HIV Care	12,160	81.2%
Retained in HIV Care	11,555	77.2%
Suppressed VL	6,844	45.7%

HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2015.

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 reported in the 12 months prior to December 31st of the specified year

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.

Section IV – Cases by Age

Table 6 – HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 12/31/2015

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)	167,700	2	0.4%	1.2	***	***	***	***	***	***	***
5-12 (Pediatric)	270,416	0	0.0%	0.0	0	0.0%	0	0.0%	0	0.0%	
13-19	241,687	19	3.3%	7.9	***	***	***	***	***	***	***
20-29	390,714	183	32.0%	46.8	140	76.5%	23	12.6%	143	78.1%	408
30-39	361,420	144	25.2%	39.8	120	83.3%	44	30.6%	114	79.2%	392
40-49	362,285	100	17.5%	27.6	80	80.0%	33	33.0%	84	84.0%	321
50-59	400,815	90	15.8%	22.5	72	80.0%	33	36.7%	77	85.6%	260
60+	542,033	33	5.8%	6.1	27	81.8%	15	45.5%	26	78.8%	184
Total	2,737,070	571	100.0%	20.9	459	80.4%	151	26.4%	461	80.7%	387

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

Table 7 – AIDS Diagnoses during 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 12/31/2015

Age at AIDS Diagnosis	Population	Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
<5 (Pediatric)	167,700	1	0.3%	0.6	***	***
5-12 (Pediatric)	270,416	0	0.0%	0.0	--	--
13-19	241,687	1	0.3%	0.4	***	***
20-29	390,714	45	14.2%	11.5	3.3	46.7%
30-39	361,420	78	24.6%	21.6	2.5	60.3%
40-49	362,285	89	28.1%	24.6	5.2	41.6%
50-59	400,815	70	22.1%	17.5	6.0	41.4%
60+	542,033	33	10.4%	6.1	5.7	48.5%
Total	2,737,070	317	100.0%	11.6	4.5	47.9%

*** 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 7/1/2014.
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 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015

Age On 12/31/2014	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	167,700	3	0.0%	1.8	2	0.0%	1.2	5	0.0%	3.0	33,540
5-12	270,416	30	0.4%	11.1	3	0.0%	1.1	33	0.2%	12.2	8,194
13-19	241,687	79	1.0%	32.7	37	0.4%	15.3	116	0.7%	48.0	2,083
20-29	390,714	1,193	15.3%	305.3	518	5.5%	132.6	1,711	9.9%	437.9	228
30-39	361,420	1,454	18.6%	402.3	1,073	11.3%	296.9	2,527	14.6%	699.2	143
40-49	362,285	1,836	23.5%	506.8	2,475	26.1%	683.2	4,311	24.9%	1,189.9	84
50-59	400,815	2,223	28.4%	554.6	3,649	38.5%	910.4	5,872	33.9%	1,465.0	68
60+	542,033	999	12.8%	184.3	1,724	18.2%	318.1	2,723	15.7%	502.4	199
Total	2,737,070	7,817	100.0%	285.6	9,481	100.0%	346.4	17,298	100.0%	632.0	158

Age on [date]: Age group of living cases on the specified date.
Population: Population estimate for 7/1/2014.
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 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015

Age On 12/31/2014	Adult/Adolescent Total Living HIV Cases								
	No.	Recent CD4 Test Results							
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	38	27	71.1%	501	3.7%	11.1%	33.3%	51.9%
20-29	1,521	953	62.7%	511	12.1%	13.2%	23.5%	51.2%
30-39	2,518	1,506	59.8%	543	13.3%	12.4%	19.3%	55.0%
40-49	4,311	2,515	58.3%	523	14.7%	14.6%	17.3%	53.4%
50-59	5,872	3,574	60.9%	536	14.1%	14.5%	17.3%	54.0%
60+	2,723	1,570	57.7%	517	11.0%	16.7%	19.5%	52.9%
Total	16,983	10,145	59.7%	528	13.4%	14.4%	18.6%	53.6%

Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015

Age On 12/31/2014	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
13-19	38	28	73.7%	32.1%	2,692
20-29	1,521	950	62.5%	56.2%	12,045
30-39	2,518	1,388	55.1%	68.2%	11,732
40-49	4,311	2,191	50.8%	71.3%	11,010
50-59	5,872	3,015	51.3%	75.4%	7,817
60+	2,723	1,219	44.8%	82.2%	4,980
Total	16,983	8,791	51.8%	72.0%	9,550

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 reported in the 12 months prior to December 31st of the specified year.
Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year
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 reported in the 12 months prior to December 31st of the specified year.
Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.
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 reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Section V – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2015

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	1,095,701	410	72.1%	37.4	319	77.8%	105	25.6%	328	80.0%	389
Female	1,203,253	159	27.9%	13.2	138	86.8%	45	28.3%	132	83.0%	354
Total	2,298,954	569	100.0%	24.8	457	80.3%	150	26.4%	460	80.8%	387

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	107,817	32	5.6%	29.7	25	78.1%	10	31.3%	28	87.5%	314
Non-Hispanic	2,191,137	537	94.4%	24.5	432	80.4%	140	26.1%	432	80.4%	389
American Indian/Alaska Native, only	5,874	1	0.2%	17.0	***	***	***	***	***	***	***
Asian, only	122,509	3	0.5%	2.4	***	***	***	***	***	***	***
Black, only	653,100	433	76.1%	66.3	349	80.6%	113	26.1%	346	79.9%	392
Native Hawaiian/ Other Pacific Islander, only	1,223	0	0.0%	0.0	--	--	--	--	--	--	--
White only	1,371,289	68	12.0%	5.0	53	77.9%	17	25.0%	54	79.4%	373
Multiracial/ Other	166,748	32	5.6%	19.2	28	87.5%	9	28.1%	30	93.8%	405
Total	2,298,954	569	100.0%	24.8	457	80.3%	150	26.4%	460	80.8%	387

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	2,024,228	471	82.8%	23.3	370	78.6%	121	25.7%	377	80.0%	387
Foreign-born	241,455	35	6.2%	14.5	30	85.7%	14	40.0%	32	91.4%	317
Africa	--	24	68.6%	--	22	91.7%	8	33.3%	22	91.7%	372
Asia	--	5	14.3%	--	***	***	***	***	***	***	***
Caribbean	--	2	5.7%	--	***	***	***	***	***	***	***
Central America	--	3	8.6%	--	***	***	***	***	***	***	***
Other	--	1	2.9%	--	***	***	***	***	***	***	***
Unknown	--	63	11.1%	--	57	90.5%	15	23.8%	51	81.0%	408
Total	2,265,683	569	100.0%	25.1	457	80.3%	150	26.4%	460	80.8%	387

* Population data by sex at birth, age, and race/ethnicity are from the 2014 U.S. Census population estimates

** Population data by country of birth are from the 2013 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 7/1/2014.

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 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2015

Sex At Birth	Population Age 13+*	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Male	1,095,701	199	63.2%	18.2	4.2	52.3%
Female	1,203,253	116	36.8%	9.6	4.7	40.5%
Total	2,298,954	315	100.0%	13.7	4.4	47.9%

Race/Ethnicity	Population Age 13+*	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Hispanic	107,817	13	4.1%	12.1	0.9	76.9%
Non-Hispanic	2,191,137	302	95.9%	13.8	4.6	46.7%
American Indian/Alaska Native, only	5,874	0	0.0%	0.0	--	--
Asian, only	122,509	1	0.3%	0.8	***	***
Black, only	653,100	237	75.2%	36.3	4.5	48.5%
Native Hawaiian/Other Pacific Islander, only	1,223	0	0.0%	0.0	--	--
White only	1,371,289	44	14.0%	3.2	5.2	38.6%
Multiracial/Other	166,748	20	6.3%	12.0	4.6	40.0%
Total	2,298,954	315	100.0%	13.7	4.4	47.9%

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	2,024,228	284	90.2%	14.0	4.9	43.0%
Foreign-born	241,455	16	5.1%	6.6	0.4	93.8%
Africa	--	9	2.9%	--	0.2	100.0%
Asia	--	2	0.6%	--	***	***
Caribbean	--	1	0.3%	--	***	***
Central America	--	2	0.6%	--	***	***
Other	--	2	0.6%	--	***	***
Unknown	--	15	4.8%	--	0.4	93.3%
Total	2,265,683	315	100.0%	13.9	4.4	47.9%

* Population data by sex at birth, age, and race/ethnicity are from the 2014 U.S. Census population estimates
** Population data by country of birth are from the 2013 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 to13 years old, estimate for 7/1/2014.
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 12/31/2014 and Reported through 12/31/2015

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			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
Male	1,095,701	5,014	65.5%	457.6	5,957	63.9%	543.7	10,971	64.6%	1,001.3	218
Female	1,203,253	2,646	34.5%	219.9	3,366	36.1%	279.7	6,012	35.4%	499.6	454
Total	2,298,954	7,660	100.0%	333.2	9,323	100.0%	405.5	16,983	100.0%	738.7	300

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			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
Hispanic	107,817	235	235	3.1%	218.0	333	3.6%	308.9	568	3.3%	526.8
Non-Hispanic	2,191,137	7,425	7,425	96.9%	338.9	8,990	96.4%	410.3	16,415	96.7%	749.2
American Indian/Alaska Native, only	5,874	9	9	0.1%	153.2	6	0.1%	102.1	15	0.1%	255.4
Asian, only	122,509	39	39	0.5%	31.8	20	0.2%	16.3	59	0.3%	48.2
Black, only	653,100	5,858	5,858	76.5%	897.0	7,143	76.6%	1,093.7	13,001	76.6%	1,990.7
Native Hawaiian/ Other Pacific Islander, only	1,223	3	3	0.0%	245.3	0	0.0%	0.0	3	0.0%	245.3
White only	1,371,289	1,227	1,227	16.0%	89.5	1,319	14.1%	96.2	2,546	15.0%	185.7
Multiracial/ Other	166,748	289	289	3.8%	173.3	502	5.4%	301.1	791	4.7%	474.4
Total	2,298,954	7,660	7,660	100.0%	333.2	9,323	100.0%	405.5	16,983	100.0%	738.7

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			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
United States	2,024,228	7,183	93.8%	354.9	8,853	95.0%	437.4	16,036	94.4%	792.2	126
Foreign-born	241,455	182	2.4%	75.4	330	3.5%	136.7	512	3.0%	212.0	471
Africa	--	89	48.9%	--	172	52.1%	--	261	51.0%	--	--
Asia	--	18	9.9%	--	25	7.6%	--	43	8.4%	--	--
Caribbean	--	19	10.4%	--	32	9.7%	--	51	10.0%	--	--
Central America	--	30	16.5%	--	64	19.4%	--	94	18.4%	--	--
Other	--	26	14.3%	--	37	11.2%	--	63	12.3%	--	--
Unknown	--	295	3.9%	--	140	1.5%	--	435	2.6%	--	--
Total	2,265,683	7,660	100.0%	338.1	9,323	100.0%	411.5	16,983	100.0%	749.6	133

* Population data by sex at birth, age, and race/ethnicity are from the 2014 U.S. Census population estimates

** Population data by country of birth are from the 2013 American Community Survey

Population Age 13+: Population greater than or equal to13 years old, estimate for 7/1/2014.

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 12/31/2014 and Reported through 12/31/2015

Sex At Birth	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	10,971	6,312	57.5%	512	13.2%	14.7%	20.4%	51.7%
Female	6,012	3,833	63.8%	562	13.8%	13.9%	15.7%	56.6%
Total	16,983	10,145	59.7%	528	13.4%	14.4%	18.6%	53.6%

Race/Ethnicity	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	568	329	57.9%	519	11.9%	14.3%	21.6%	52.3%
Non-Hispanic	16,415	9,816	59.8%	528	13.5%	14.4%	18.5%	53.6%
American Indian/Alaska Native, only	15	***	***	***	***	***	***	***
Asian, only	59	30	50.8%	527	6.7%	20.0%	20.0%	53.3%
Black, only	13,001	7,856	60.4%	522	13.6%	14.7%	18.8%	53.0%
Native Hawaiian/Other Pacific Islander, only	3	***	***	***	***	***	***	***
White only	2,546	1,354	53.2%	585	11.3%	12.3%	16.6%	59.7%
Multiracial/Other	791	573	72.4%	477	18.0%	15.0%	19.2%	47.8%
Total	16,983	10,145	59.7%	528	13.4%	14.4%	18.6%	53.6%

Country Of Birth	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	16,036	9,558	59.6%	530	13.5%	14.4%	18.3%	53.8%
Foreign-born	512	282	55.1%	486	12.8%	14.2%	27.3%	45.7%
Africa	261	153	1.5%	484	15.0%	13.1%	28.1%	43.8%
Asia	43	25	0.2%	460	12.0%	20.0%	28.0%	40.0%
Caribbean	51	26	0.3%	572	3.8%	7.7%	30.8%	57.7%
Central America	94	49	0.5%	464	10.2%	20.4%	26.5%	42.9%
Other	63	29	0.3%	565	13.8%	10.3%	20.7%	55.2%
Unknown	435	305	3.0%	514	13.4%	14.4%	19.0%	53.1%
Total	16,983	10,145	59.7%	528	13.4%	14.4%	18.6%	53.6%

*** 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 reported in the 12 months prior to December 31st of the specified year.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

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 12/31/2014 and Reported through 12/31/2015

Sex At Birth	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	10,971	5,387	49.1%	73.3%	10,720
Female	6,012	3,404	56.6%	69.8%	7,372
Total	16,983	8,791	51.8%	72.0%	9,550

Race/Ethnicity	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	568	288	50.7%	76.0%	18,381
Non-Hispanic	16,415	8,503	51.8%	71.8%	9,435
American Indian/Alaska Native, only	15	***	***	***	***
Asian, only	59	26	44.1%	92.3%	21,920
Black, only	13,001	6,860	52.8%	70.5%	9,320
Native Hawaiian/Other Pacific Islander, only	3	***	***	***	***
White only	2,546	1,119	44.0%	81.1%	10,434
Multiracial/Other	791	494	62.5%	67.8%	8,845
Total	16,983	8,791	51.8%	72.0%	9,550

Country of Birth	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
United States	16,036	8,247	51.4%	71.6%	9,570
Foreign-born	512	249	48.6%	79.9%	2,515
Africa	261	142	54.4%	77.5%	2,515
Asia	43	23	53.5%	87.0%	10,930
Caribbean	51	27	52.9%	92.6%	26,131
Central America	94	37	39.4%	75.7%	3,020
Other	63	20	31.7%	80.0%	1,439
Unknown	435	295	67.8%	75.6%	13,775
Total	16,983	8,791	51.8%	72.0%	9,550

*** 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.

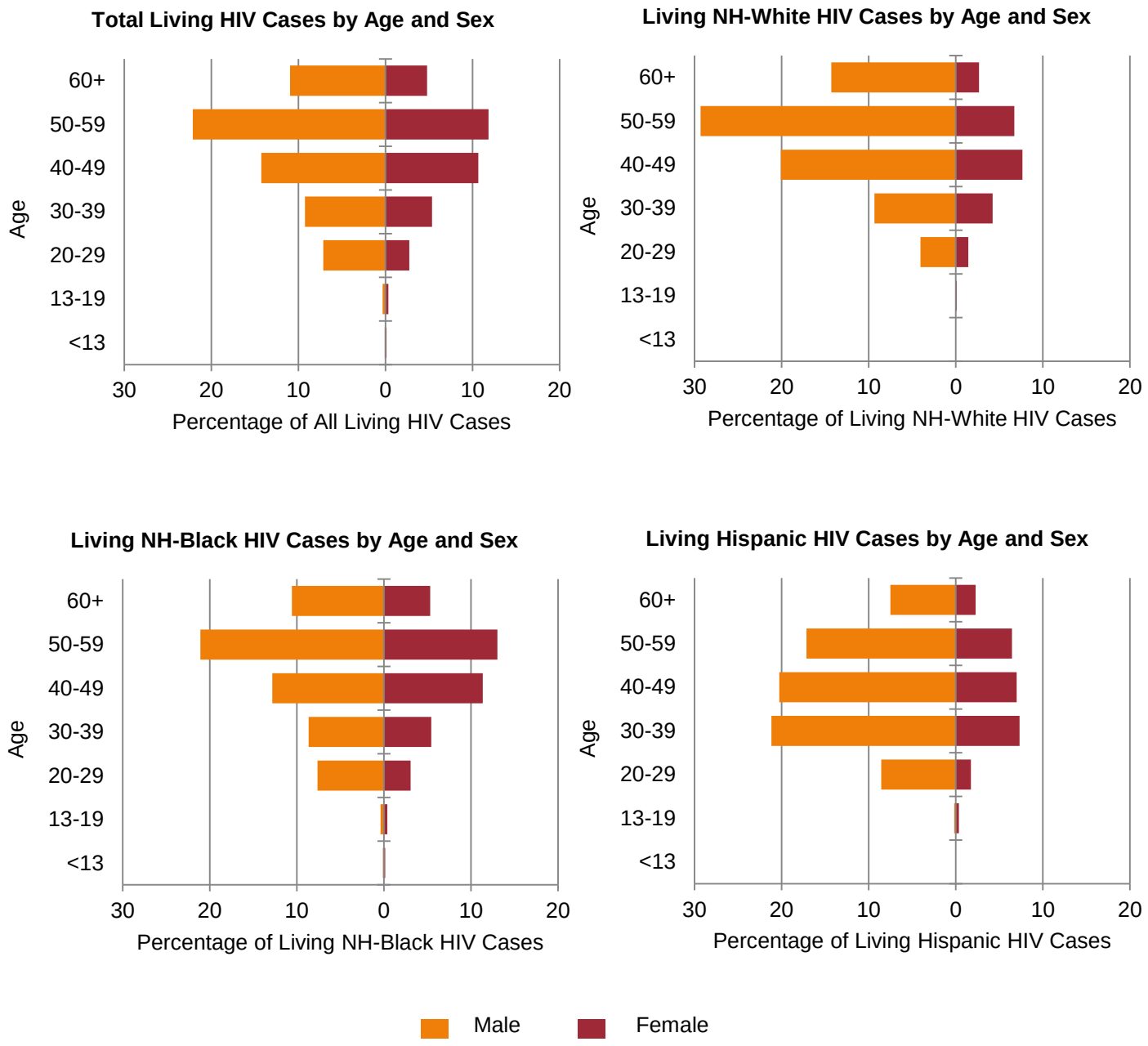
Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

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 reported in the 12 months prior to December 31st of the specified year 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 12/31/2014 and Reported through 12/31/2015



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 12/31/2014 and Reported through 12/31/2015

MALES						
AGE ON 12/31/2014		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	19,516	72,216	106,416	25,341	223,488
	Cases	0	16	1	0	17
	Rate	0.0	22.2	0.9	0.0	7.6
	Ratio (1 in X)	--	4,513	106,415	--	13,146
13-19	Population	7,908	39,548	64,090	11,387	122,934
	Cases	1	51	2	5	59
	Rate	12.6	129.0	3.1	43.9	48.0
	Ratio (1 in X)	7,908	775	32,045	2,277	2,083
20-29	Population	13,801	59,063	105,658	16,124	194,646
	Cases	49	1012	104	72	1,237
	Rate	355.0	1,713.4	98.4	446.5	635.5
	Ratio (1 in X)	281	58	1,015	223	157
30-39	Population	15,341	47,036	96,902	16,140	175,419
	Cases	121	1,147	240	94	1,602
	Rate	788.7	2,438.6	247.7	582.4	913.2
	Ratio (1 in X)	126	41	403	171	109
40-49	Population	9,950	48,462	101,502	13,902	173,816
	Cases	116	1,704	516	132	2,468
	Rate	1,165.8	3,516.2	508.4	949.5	1,419.9
	Ratio (1 in X)	85	28	196	105	70
50-59	Population	5,609	49,303	126,067	10,681	191,660
	Cases	98	2,797	752	180	3,827
	Rate	1,747.2	5,673.1	596.5	1,685.2	1,996.8
	Ratio (1 in X)	57	17	167	59	50
60+	Population	4,055	50,514	171,863	10,794	237,226
	Cases	43	1,402	367	86	1,898
	Rate	1,060.4	2,775.5	213.5	796.7	800.1
	Ratio (1 in X)	94	36	468	125	124
TOTAL MALES BY RACE/ETHNICITY	Population	76,180	366,142	772,498	104,369	1,319,189
	Cases	428	8,129	1,982	569	11,108
	Rate	561.8	2,220.2	256.6	545.2	842.0
	Ratio (1 in X)	177	45	389	183	118

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 7/1/2014.
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 12/31/2014 and Reported through 12/31/2015

FEMALES						
AGE ON 12/31/2014		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	18,927	70,101	101,222	24,378	214,628
	Cases	0	20	0	1	21
	Rate	0.0	28.5	0.0	0.0	9.8
	Ratio (1 in X)	--	3,505	--	24,378	10,220
13-19	Population	7,542	39,139	60,546	11,526	118,753
	Cases	2	51	3	1	57
	Rate	26.5	130.3	5.0	8.7	48.0
	Ratio (1 in X)	3,771	767	20,181	11,525	2,083
20-29	Population	11,747	64,799	102,584	16,938	196,068
	Cases	10	409	37	18	474
	Rate	85.1	631.2	36.1	106.3	241.8
	Ratio (1 in X)	1,174	158	2,772	941	413
30-39	Population	12,832	58,589	96,066	18,514	186,001
	Cases	42	724	108	51	925
	Rate	327.3	1,235.7	112.4	275.5	497.3
	Ratio (1 in X)	305	80	889	363	201
40-49	Population	8,816	58,364	105,423	15,866	188,469
	Cases	40	1,509	196	98	1,843
	Rate	453.7	2,585.5	185.9	617.7	977.9
	Ratio (1 in X)	220	38	537	161	102
50-59	Population	5,322	61,096	131,068	11,669	209,155
	Cases	37	1,731	172	105	2,045
	Rate	695.2	2,833.2	131.2	899.8	977.7
	Ratio (1 in X)	143	35	762	111	102
60+	Population	4,893	77,187	209,520	13,207	304,807
	Cases	13	706	68	38	825
	Rate	265.7	914.7	32.5	287.7	270.7
	Ratio (1 in X)	376	109	3,081	347	369
TOTAL FEMALES BY RACE/ETHNICITY	Population	70,079	429,275	806,429	112,098	1,417,881
	Cases	144	5,150	584	312	6,190
	Rate	205.5	1,199.7	72.4	278.3	436.6
	Ratio (1 in X)	486	83	1,380	359	229

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 7/1/2014.
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 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2015

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	483	100.0%	394	81.6%	121	25.1%	399	82.6%	395
Men who have Sex with Men (MSM)	259	53.6%	216	83.4%	60	23.2%	219	84.6%	406
Injection Drug Users (IDU)	25	5.2%	12	48.0%	10	40.0%	20	80.0%	268
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***	***	***	***	***	***
Heterosexual Exposure (HET)	193	40.0%	161	83.4%	50	25.9%	155	80.3%	356
Other Exposure	***	***	***	***	***	***	***	***	***
No Reported Exposure*	86		63	73.3%	29	33.7%	61	70.9%	255
Total	569		457	80.3%	150	26.4%	460	80.8%	387

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	348	100.0%	278	79.9%	86	24.7%	287	82.5%	398
Men who have Sex with Men (MSM)	259	74.4%	216	83.4%	60	23.2%	219	84.6%	406
Injection Drug Users (IDU)	16	4.6%	7	43.8%	***	***	12	75.0%	183
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***	***	***	5	100.0%	384
Heterosexual Exposure (HET)	67	19.3%	50	74.6%	17	25.4%	51	76.1%	388
Other Exposure	***	***	***	***	***	***	0	***	***
No Reported Exposure	62		41	66.1%	19	30.6%	41	66.1%	255
Total	410		319	77.8%	105	25.6%	328	80.0%	389

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	135	100.0%	116	85.9%	35	25.9%	112	83.0%	359
Injection Drug Users (IDU)	9	6.7%	5	55.6%	***	***	8	88.9%	507
Heterosexual Exposure (HET)	126	93.3%	111	88.1%	***	***	104	82.5%	354
Other Exposure	0	0.0%	--	--	--	--	--	--	--
No Reported Exposure*	24		22	91.7%	10	41.7	20	83.3%	232
Total	159		138	86.8%	45	28.3%	132	83.0%	354

*** 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 2014, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2015

Exposure Category	Adult/Adolescent AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	266	100.0%	4.7	46.2%
Men who have Sex with Men (MSM)	101	38.0%	3.4	59.4%
Injection Drug Users (IDU)	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***
Heterosexual Exposure (HET)	113	42.5%	4.2	49.6%
Other Exposures	0	0.0%	--	--
No Reported Exposure*	49		2.8	57.1%
Total	315		4.4	47.9%

Male Exposure Category	Adult/Adolescent AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	169	100.0%	4.5	49.7%
Men who have Sex with Men (MSM)	101	59.8%	3.4	59.4%
Injection Drug Users (IDU)	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***
Heterosexual Exposure (HET)	37	21.9%	4.2	48.6%
Other Exposures	0	0.0%	--	--
No Reported Exposure	30		2.7	66.7%
Total	199		4.2	52.3%

Female Exposure Category	Adult/Adolescent AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	97	100.0%	5.1	40.2%
Injection Drug Users (IDU)	21	21.6%	8.4	4.8%
Heterosexual Exposure (HET)	76	78.4%	4.1	50.0%
Other Exposures	0	0.0%	--	--
No Reported Exposure*	19		3.0	42.1%
Total	116		4.7	40.5%

***** Includes 3 new HIV diagnoses with Presumed Female Heterosexual exposure
*** 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.
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 to12 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 12/31/2014 and Reported through 12/31/2015

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	5,695	100.0%	8,215	100.0%	13,910	100.0%
Men who have Sex with Men (MSM)	2,252	39.5%	2,252	27.4%	4,504	32.4%
Injection Drug Users (IDU)	1,387	24.4%	2,977	36.2%	4,364	31.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	160	2.8%	363	4.4%	523	3.8%
Heterosexual Exposure (HET)	1,879	33.0%	2,586	31.5%	4,465	32.1%
Other Exposures	17	0.3%	37	0.5%	54	0.4%
No Reported Exposure*	1,965		1,108		3,073	
Total	7,660		9,323		16,983	

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	3,863	100.0%	5,295	100.0%	9,158	100.0%
Men who have Sex with Men (MSM)	2,252	58.3%	2,252	42.5%	4,504	49.2%
Injection Drug Users (IDU)	826	21.4%	1,780	33.6%	2,606	28.5%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	160	4.1%	363	6.9%	523	5.7%
Heterosexual Exposure (HET)	617	16.0%	878	16.6%	1,495	16.3%
Other Exposures	8	0.2%	22	0.4%	30	0.3%
No Reported Exposure	1,151		662		1,813	
Total	5,014		5,957		10,971	

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	1,832	100.0%	2,920	100.0%	4,752	100.0%
Injection Drug Users (IDU)	561	30.6%	1,197	41.0%	1,758	37.0%
Heterosexual Exposure (HET)	1,262	68.9%	1,708	58.5%	2,970	62.5%
Other Exposures	9	0.5%	15	0.5%	24	0.5%
No Reported Exposure*	814		446	13.3%	1,260	
Total	2,646		3,366	100.0%	6,012	

* Includes 68 HIV cases without AIDS and 35 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 12/31/2014 and Reported through 12/31/2015

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	452	100.0%	10,579	100.0%	2,131	100.0%
Men who have Sex with Men (MSM)	204	45.1%	2,810	26.6%	1,211	56.8%
Injection Drug Users (IDU)	73	16.2%	3,651	34.5%	430	20.2%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	14	3.1%	399	3.8%	78	3.7%
Heterosexual Exposure (HET)	160	35.4%	3,687	34.9%	394	18.5%
Other Exposures	1	0.2%	32	0.3%	18	0.8%
No Reported Exposure*	116		2,422		415	
Total	568		13,001		2,546	

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	347	100.0%	6,671	100.0%	1,656	100.0%
Men who have Sex with Men (MSM)	204	58.8%	2,810	42.1%	1,211	73.1%
Injection Drug Users (IDU)	52	15.0%	2,249	33.7%	211	12.7%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	14	4.0%	399	6.0%	78	4.7%
Heterosexual Exposure (HET)	77	22.2%	1,199	18.0%	142	8.6%
Other Exposures	0	0.0%	14	0.2%	14	0.8%
No Reported Exposure	80		1,342		314	
Total	427		8,013		1,970	

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	105	100.0%	3,908	100.0%	475	100.0%
Injection Drug Users (IDU)	21	20.0%	1,402	35.9%	219	46.1%
Heterosexual Exposure (HET)	83	79.0%	2,488	63.7%	252	53.1%
Other Exposures	1	1.0%	18	0.5%	4	0.8%
No Reported Exposure*	36		1,080		101	
Total	141		4,988		576	

* Includes 4 Hispanic cases, 90 non-Hispanic black cases, and 7 non-Hispanic white 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.

Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2014 and Reported through 12/31/2015

Exposure Category	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
With Exposure	13,910	8,663	62.3%	525	13.5%	14.6%	18.7%	53.3%
Men who have Sex with Men (MSM)	4,504	2,731	60.6%	556	9.5%	11.8%	20.8%	57.9%
Injection Drug Users (IDU)	4,364	2,721	62.4%	474	16.3%	19.0%	18.3%	46.5%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	523	320	61.2%	518	16.6%	13.4%	17.2%	52.8%
Heterosexual Exposure (HET)	4,465	2,852	63.9%	551	14.2%	13.1%	17.0%	55.8%
Other Exposures	54	39	72.2%	454	17.9%	17.9%	33.3%	30.8%
No Reported Exposure*	3,073	1,482	48.2%	545	13.1%	13.6%	18.2%	55.2%
Total	16,983	10,145	59.7%	528	13.4%	14.4%	18.6%	53.6%

* Includes 103 cases with Presumed Female Heterosexual exposure

Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2014 and Reported through 12/31/2015

Exposure Category	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Count
With Exposure	13,910	7,429	53.4%	71.5%	10,000
Men who have Sex with Men (MSM)	4,504	2,415	53.6%	74.4%	10,995
Injection Drug Users (IDU)	4,364	2,233	51.2%	68.7%	10,840
Men who have Sex with Men and Inject Drugs (MSM/IDU)	523	255	48.8%	65.1%	13,568
Heterosexual Exposure (HET)	4,465	2,498	55.9%	72.1%	7,071
Other Exposures	54	28	51.9%	50.0%	35,271
No Reported Exposure*	3,073	1,362	44.3%	74.6%	6,720
Total	16,983	8,791	51.8%	72.0%	9,550

* Includes 103 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 reported in the 12 months prior to December 31st of the specified year.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

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 reported in the 12 months prior to December 31st of the specified year.

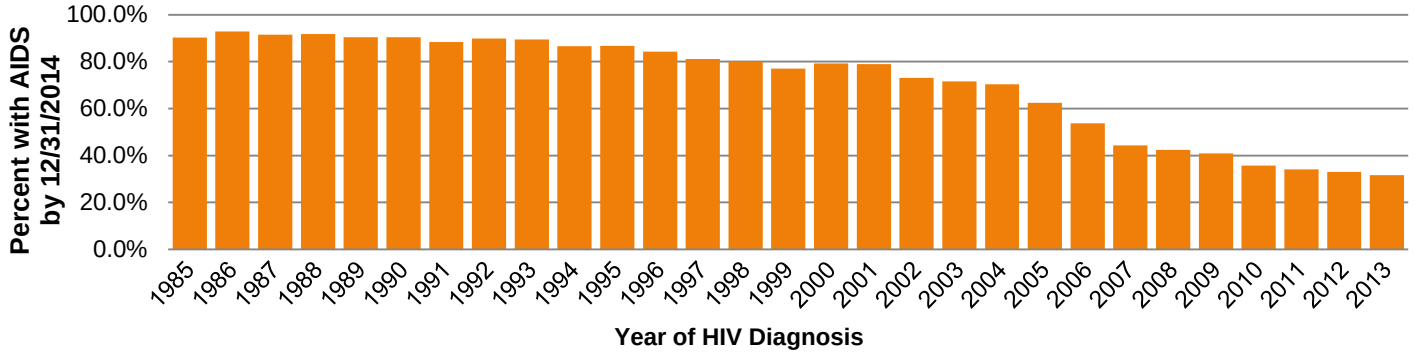
Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

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 reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

Section VIII – Disease Progression and Mortality

Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2013, Reported through 12/31/2015

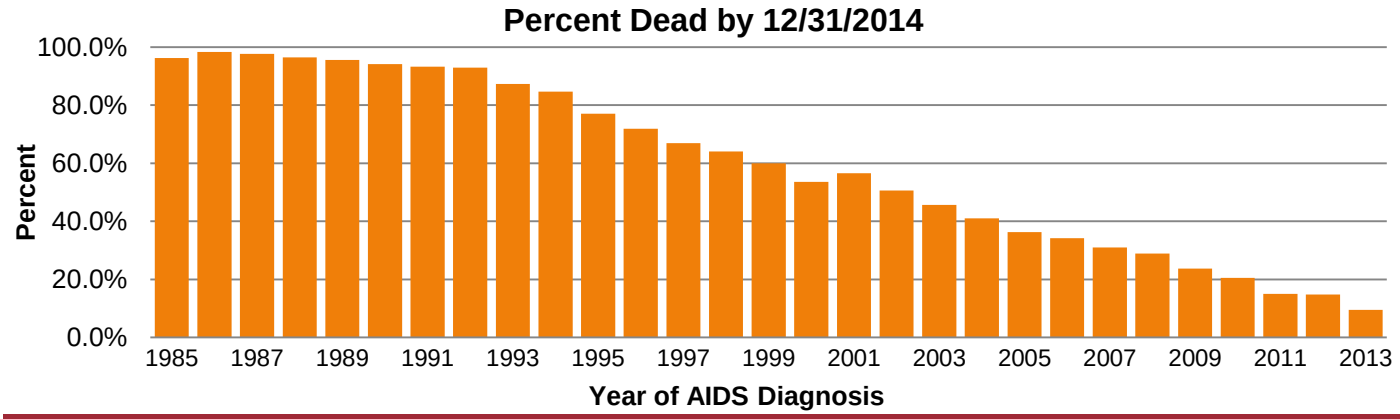
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/13 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2014 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2014, 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 2013, as Reported by Name through 12/31/2015.



Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	220	212	96.4%	6.9	34.5%	34.5%	38.2%	68.6%
1985	430	388	90.2%	6.5	25.8%	27.0%	34.7%	74.7%
1986	575	534	92.9%	5.5	33.6%	34.3%	46.3%	79.5%
1987	757	693	91.5%	4.6	33.6%	36.9%	54.4%	82.4%
1988	1,116	1,024	91.8%	3.8	38.2%	41.9%	63.7%	85.5%
1989	1,421	1,285	90.4%	3.6	37.8%	43.3%	67.1%	83.3%
1990	1,486	1,343	90.4%	3.0	43.9%	50.8%	73.1%	84.9%
1991	1,697	1,500	88.4%	2.7	46.1%	55.6%	73.1%	83.0%
1992	1,660	1,490	89.8%	2.5	50.8%	59.0%	75.4%	84.0%
1993	1,515	1,355	89.4%	2.2	54.1%	62.1%	76.4%	85.3%
1994	1,376	1,192	86.6%	2.3	53.0%	60.9%	73.7%	81.8%
1995	1,349	1,169	86.7%	2.2	56.8%	62.4%	72.5%	82.1%
1996	1,250	1,054	84.3%	1.9	59.4%	64.1%	71.4%	80.2%
1997	1,270	1,030	81.1%	2.0	55.5%	60.4%	68.8%	76.9%
1998	1,257	1,006	80.0%	2.0	55.5%	59.2%	67.7%	75.9%
1999	1,155	891	77.1%	1.6	56.4%	60.4%	68.3%	74.6%
2000	1,084	859	79.2%	1.6	56.3%	60.5%	69.8%	76.8%
2001	1,183	933	78.9%	1.4	59.0%	63.0%	71.4%	76.6%
2002	1,409	1,030	73.1%	1.6	54.1%	57.4%	64.1%	70.8%
2003	1,204	862	71.6%	1.4	54.3%	57.7%	63.5%	70.0%
2004	1,226	863	70.4%	1.4	52.8%	56.5%	62.9%	69.1%
2005	1,279	800	62.5%	1.3	46.5%	49.2%	55.8%	--
2006	1,322	710	53.7%	1.4	38.8%	41.0%	48.2%	--
2007	1,215	538	44.3%	1.6	28.4%	31.4%	39.2%	--
2008	1,150	488	42.4%	1.4	28.0%	31.3%	39.0%	--
2009	915	374	40.9%	1.3	27.3%	30.3%	--	--
2010	919	328	35.7%	1.0	25.9%	28.7%	--	--
2011	709	242	34.1%	0.6	26.9%	31.0%	--	--
2012	685	226	33.0%	0.6	27.7%	30.1%	--	--
2013	620	196	31.6%	0.3	29.5%	--	--	--
Total	33,454	24,615	73.6%	2.4	45.4%	50.0%	60.9%	70.0%

Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2013, Reported through 12/31/2015

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/13 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2014 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2014, 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 2013, as Reported by Name through 12/31/2015

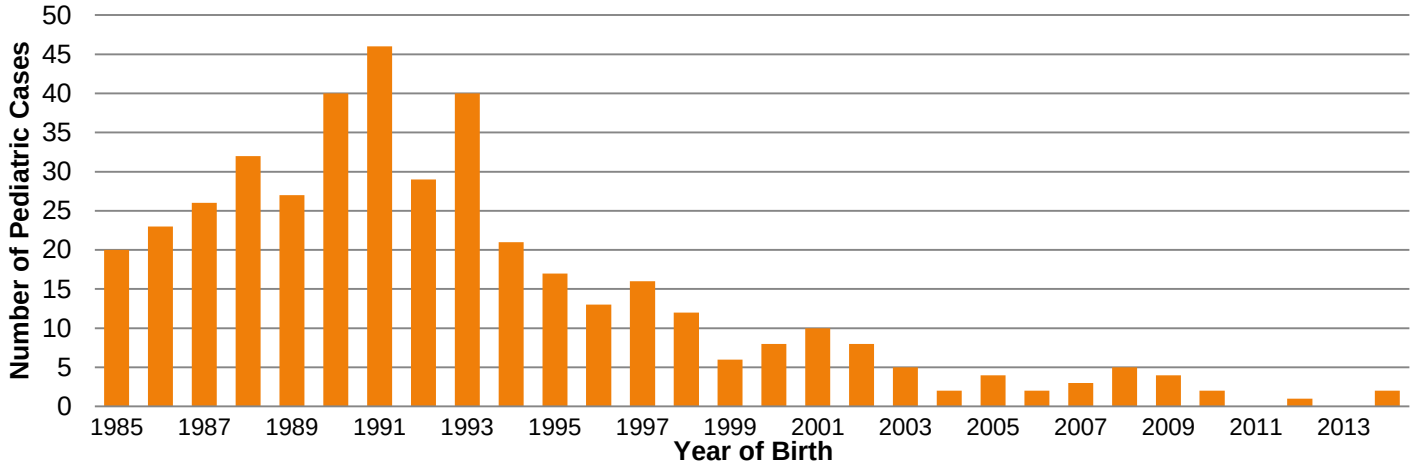


Year of HIV Diagnosis	Adult/Adolescent Reported AIDS Diagnoses							
		Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
	No.	No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	77	73	94.8%	2.5	51.9%	32.5%	15.6%	13.0%
1985	105	101	96.2%	1.7	42.9%	21.9%	8.6%	6.7%
1986	174	171	98.3%	2.6	54.0%	35.6%	14.9%	8.6%
1987	263	257	97.7%	2.1	61.2%	33.1%	11.0%	4.9%
1988	433	418	96.5%	2.3	59.4%	39.3%	13.9%	6.7%
1989	550	526	95.6%	2.4	60.7%	39.3%	15.6%	8.0%
1990	780	735	94.2%	2.9	65.6%	46.3%	20.1%	11.8%
1991	971	906	93.3%	2.7	67.6%	46.1%	18.0%	12.2%
1992	1,343	1,248	92.9%	3.0	70.3%	48.8%	20.5%	14.4%
1993	1,541	1,346	87.3%	3.6	77.4%	55.3%	32.5%	21.0%
1994	1,369	1,159	84.7%	3.8	76.9%	58.2%	37.8%	23.9%
1995	1,383	1,066	77.1%	4.5	78.1%	65.8%	48.6%	34.8%
1996	1,298	933	71.9%	5.1	81.8%	74.6%	57.2%	41.4%
1997	1,120	749	66.9%	5.0	85.0%	77.0%	60.5%	44.2%
1998	1,028	659	64.1%	5.2	87.0%	80.0%	63.9%	46.9%
1999	1,005	603	60.0%	4.7	86.9%	79.7%	64.0%	48.3%
2000	879	471	53.6%	4.3	85.6%	80.0%	65.1%	52.7%
2001	998	565	56.6%	4.1	85.3%	76.5%	61.8%	49.6%
2002	1,062	537	50.6%	4.5	87.8%	81.6%	69.5%	56.3%
2003	929	425	45.7%	3.3	83.2%	77.7%	66.2%	56.9%
2004	955	392	41.0%	3.4	86.9%	82.3%	71.3%	60.8%
2005	889	323	36.3%	3.1	88.3%	83.4%	73.5%	--
2006	804	275	34.2%	2.9	88.1%	83.3%	73.9%	--
2007	594	184	31.0%	2.6	88.2%	84.7%	75.6%	--
2008	591	171	28.9%	2.1	88.0%	83.6%	74.8%	--
2009	514	122	23.7%	2.1	90.3%	86.8%	--	--
2010	551	113	20.5%	1.5	89.7%	86.4%	--	--
2011	453	68	15.0%	1.5	93.6%	90.5%	--	--
2012	493	73	14.8%	1.1	90.7%	88.4%	--	--
2013	455	43	9.5%	0.8	94.3%	--	--	--
Total	23,607	14,712	62.3%	3.6	80.8%	69.9%	53.6%	43.6%

Section IX – Pediatric Cases

Figure 12 – Trends in Pediatric HIV Cases, 1985-2014, Reported through 12/31/2015

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 2014, as Reported by Name through 12/31/2015



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	26	2	1	0	
1985	20	7	4	1	9
1986	23	7	6	4	12
1987	26	16	10	5	23
1988	32	22	14	4	42
1989	27	28	19	5	65
1990	40	37	16	5	98
1991	46	37	26	8	126
1992	29	46	28	9	163
1993	40	46	25	12	197
1994	21	30	20	12	214
1995	17	19	13	12	221
1996	13	20	12	14	228
1997	16	10	7	6	232
1998	12	15	9	3	244
1999	6	15	7	4	254
2000	8	8	2	0	262
2001	10	9	8	3	267
2002	8	8	6	3	272
2003	5	2	1	2	272
2004	2	5	2	3	274
2005	4	1	1	0	275
2006	2	5	3	2	279
2007	3	31	5	4	306
2008	5	8	7	3	311
2009	4	6	3	2	315
2010	2	3	7	4	314
2011	0	2	4	2	315
2012	1	2	3	3	314
2013	0	1	10	1	314
2014	2	2	3	0	315
Total	450	450	282	136	

Table 24 – Pediatric HIV Total Living HIV Cases, Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015

Jurisdiction of Residence at Diagnosis	Pediatric Total Living HIV Cases	
	No.	% of Total
Anne Arundel	21	6.7%
Baltimore City	222	70.5%
Baltimore	49	15.6%
Carroll	4	1.3%
Harford	13	4.1%
Howard	6	1.9%
Total	315	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 12/31/2014 and Reported through 12/31/2015

Sex at Birth	Pediatric Total Living HIV Cases	
	No.	% of Total
Male	137	43.5%
Female	178	56.5%
Total	315	100.0%

Race/Ethnicity	Pediatric Total Living HIV Cases	
	No.	% of Total
Hispanic	4	1.3%
Non-Hispanic	311	98.7%
American Indian/ Alaska Native, only	1	0.3%
Asian, only	278	88.3%
Black, only	12	3.8%
Native Hawaiian/Other Pacific Islander, only	20	6.3%
White, only	0	0.0%
Multiracial/Other	0	0.0%
Total	315	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).

Confirmed Perinatal HIV Transmissions: Reported babies born to an HIV positive mother, with a confirmed HIV diagnosis.

Current Residence 2009-2015: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-12/31/2015.

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.

Last Known Residence: Jurisdiction of residence from the most recent laboratory test or case report, reported through 12/31/2015.

Live Births: Babies born alive in the general population.

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

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis (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 reported in the 12 months prior to December 31st of the specified year

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 reported in the 12 months prior to December 31st of the specified year of 200 copies per milliliter or greater.

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.

On ART: Estimated number of HIV Diagnosed receiving antiretroviral therapy (ART) during the specified year.

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 reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

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.

Perinatal HIV Transmission Rate: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Population: Population estimate for 7/1/2014.

Population Age 13+: Population age13 years or older, estimate for 7/1/2014.

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 reported in the 12 months prior to December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

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

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

Reported Perinatal HIV Exposures: Reported babies born to an HIV positive mother during the specified year.

Retained in HIV Care: HIV Diagnosed with a CD4 test result reported in the 12 months prior to December 31st of the specified year.

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.

Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of child bearing age (13-49 years old) on December 31st of the specified year