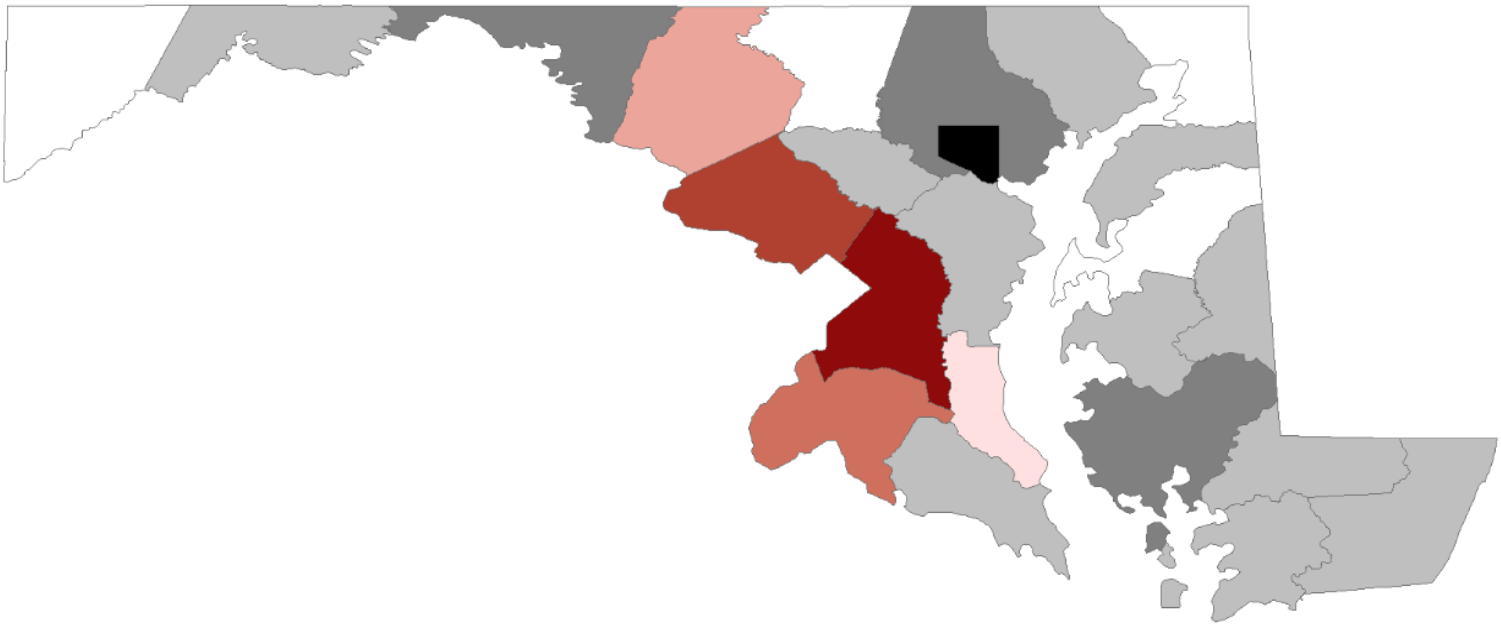
2014



Washington Metro 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
http://phpa.dhmh.maryland.gov/OIDEOR/CHSE
1-800-358-9001

Acknowledgements

This report is published by The Center for HIV Surveillance, Epidemiology and Evaluation annually with valuable contribution from the following people listed. In addition, this report would not have been possible without the cooperation, dedication and hard work of HIV health care providers, community groups, researchers and members of the community and contribution from people with HIV.

Center for HIV Surveillance, Epidemiology and Evaluation

Colin Flynn, Chief
Jami Stockdale, Deputy Chief, Epidemiology and Evaluation
Reshma Bhattacharjee, Deputy Chief, HIV Case Surveillance

Alyssa Arey, Epidemiologist
Morgan Boyer, Epidemiologist
Harold Boykin, Epidemiologist
Molly Gribbin, Epidemiologist
Jennifer Lawall, Epidemiologist

Leigh Carels, Surveillance Investigator
Phyllis Finch, Surveillance Investigator
Delwar Hossain, Surveillance Investigator
Bekele Mamo, Surveillance Investigator
Winona Matthews, Surveillance Investigator
Carly Stokum, Surveillance Investigator
Assefa Tigeneh, Surveillance Investigator
Denise Bannerman-Wood, Data Quality Specialist/NIR Coordinator

Yvonne Childress, Data Specialist
Kathy Colburn, Data Specialist
Lillian Keene, Data Specialist
Rhonda Rowlette, Data Specialist, Health Record Reviewer

Mohammed Haque, Health Record Reviewer
Nancy McCaslin, Health Record Reviewer
Marilyn Walkins, Health Record Reviewer

Linda Knapp, Evaluator
Sara Daneshpour, Research Assistant
Claire Kihn, Research Assistant

Suggested Citation: Washington Metro HIV Epidemiological Profile 2014. Center for HIV Surveillance, Epidemiology and Evaluation, Department of Health and Mental Hygiene, Baltimore, MD. 2016.

Table of Contents

Acknowledgements **1**

Table of Contents **2**

Section I – Background Information **4**
HIV/AIDS Reporting Requirements 4
For Assistance with HIV/AIDS Reporting 4
Limitations in the HIV/AIDS Data 4
Stages of a Case of HIV/AIDS 5
Changes in Case Terminology 5
Laboratory Data 5
Sources of Data 6
Tabulation of Column Totals 6
Data Suppression 6
HIV Exposure Categories 6

Section II – Trends 1985-2014 ..... **6**
Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2014, Reported through 12/31/2015 6
Figure 2 – Trends in Living HIV Cases, 1985-2014, Reported through 12/31/2015 8
Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2014, Reported through 12/31/2015 8
Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2014, Reported through 12/31/2015 9
Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2014, Reported through 12/31/2015 10
Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2014, Reported through 12/31/2015 11

Section III – Adult/Adolescent Cases by Jurisdiction **12**
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 12
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 14
Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015 14
Table 3A – Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction and Current Residence, Reported through 12/31/2015 15
Table 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, Reported through 12/31/2015 16
Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015 16
Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, Reported through 12/31/2015 17
Figure 7A – Prevalence-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, by Current Residence, Reported through 12/31/2014 18
Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, Reported through 12/31/2014 19
Figure 8A – Diagnosis-Based Estimated Adult/Adolescent 2014 HIV Continuum of Care Cascades, by Current Residence, Reported through 12/31/2014 19

Section IV – Cases by Age **21**
Table 6 – HIV Diagnoses during 2014, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 12/31/2015 21
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 21
Table 8 – HIV Cases Alive on 12/31/2014, by Age on 12/31/2014, Reported through 12/31/2015 23
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 24
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 24

Section V – Adult/Adolescent Cases by Demographics **25**
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 25
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 27
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 28
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 29
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 30

Section VI – HIV Cases by Expanded Demographics **31**
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 31
Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015 32

Table 17 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015 33

Section VII – HIV Exposure Category 34

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 34

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 36

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 37

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 38

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 39

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 39

Section VIII – Disease Progression and Mortality 40

Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2013, Reported through 12/31/2015 40

Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2013, Reported through 12/31/2015 41

Section IX – Pediatric Cases 42

Figure 12 – Trends in Pediatric HIV Cases, 1985-2014, Reported through 12/31/2015 42

Table 24 – Pediatric HIV Diagnoses during 2014 and Pediatric Total Living HIV Cases, Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015 43

Table 25 – Pediatric HIV Diagnosis during 2014 and Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2014 and Reported through 12/31/2015 44

Glossary of Terms 45

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.

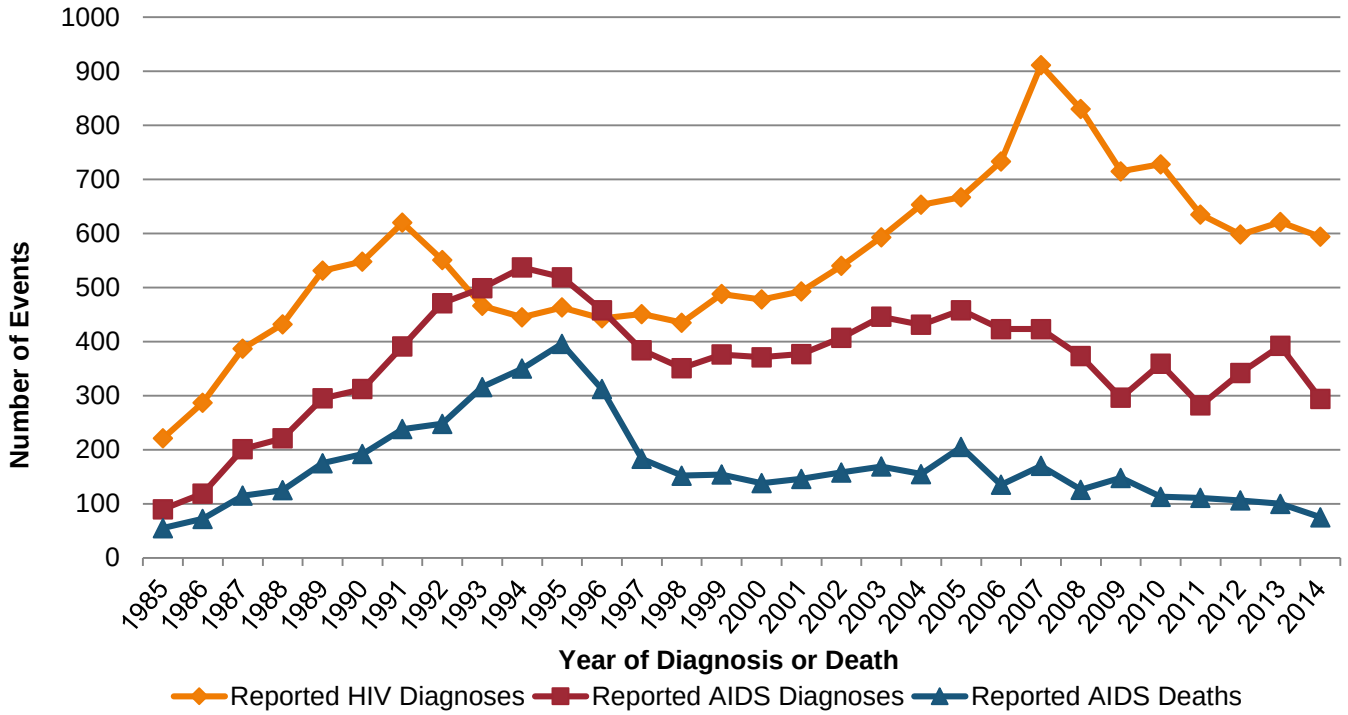
Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or 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	111	60	28	**2000**	478	371	138
1985	221	90	55	**2001**	493	377	146
1986	287	119	72	**2002**	540	407	158
1987	387	201	115	**2003**	593	446	169
1988	432	221	125	**2004**	653	431	155
1989	531	295	175	**2005**	667	458	205
1990	548	312	192	**2006**	733	423	135
1991	620	391	238	**2007**	911	423	170
1992	551	471	248	**2008**	830	373	126
1993	466	499	316	**2009**	715	296	148
1994	445	537	350	**2010**	728	359	113
1995	463	519	396	**2011**	635	282	111
1996	443	458	312	**2012**	598	342	106
1997	451	384	183	**2013**	621	392	100
1998	435	351	152	**2014**	594	294	75
1999	488	376	154	**Total**	16,668	10,958	5,166

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

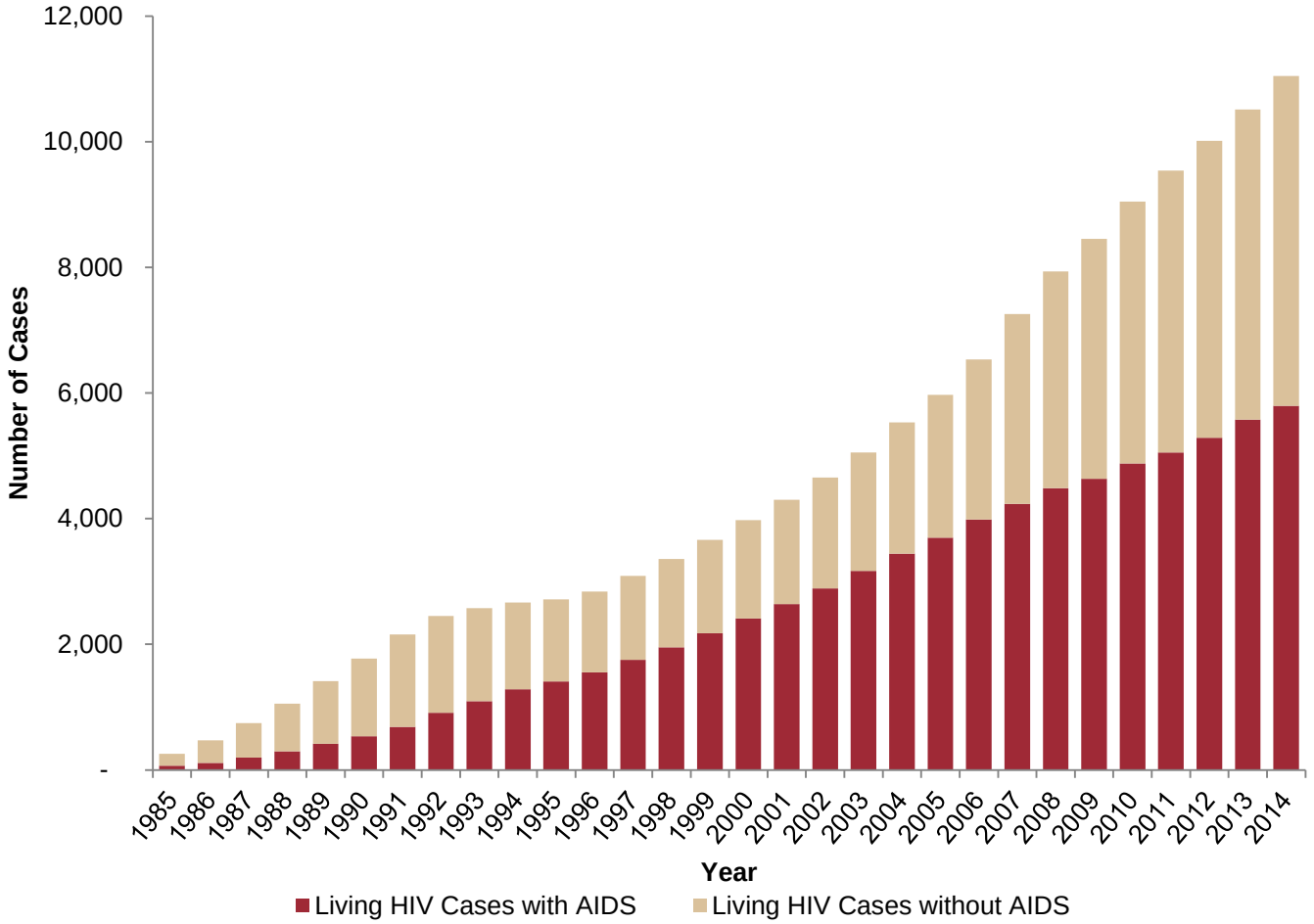
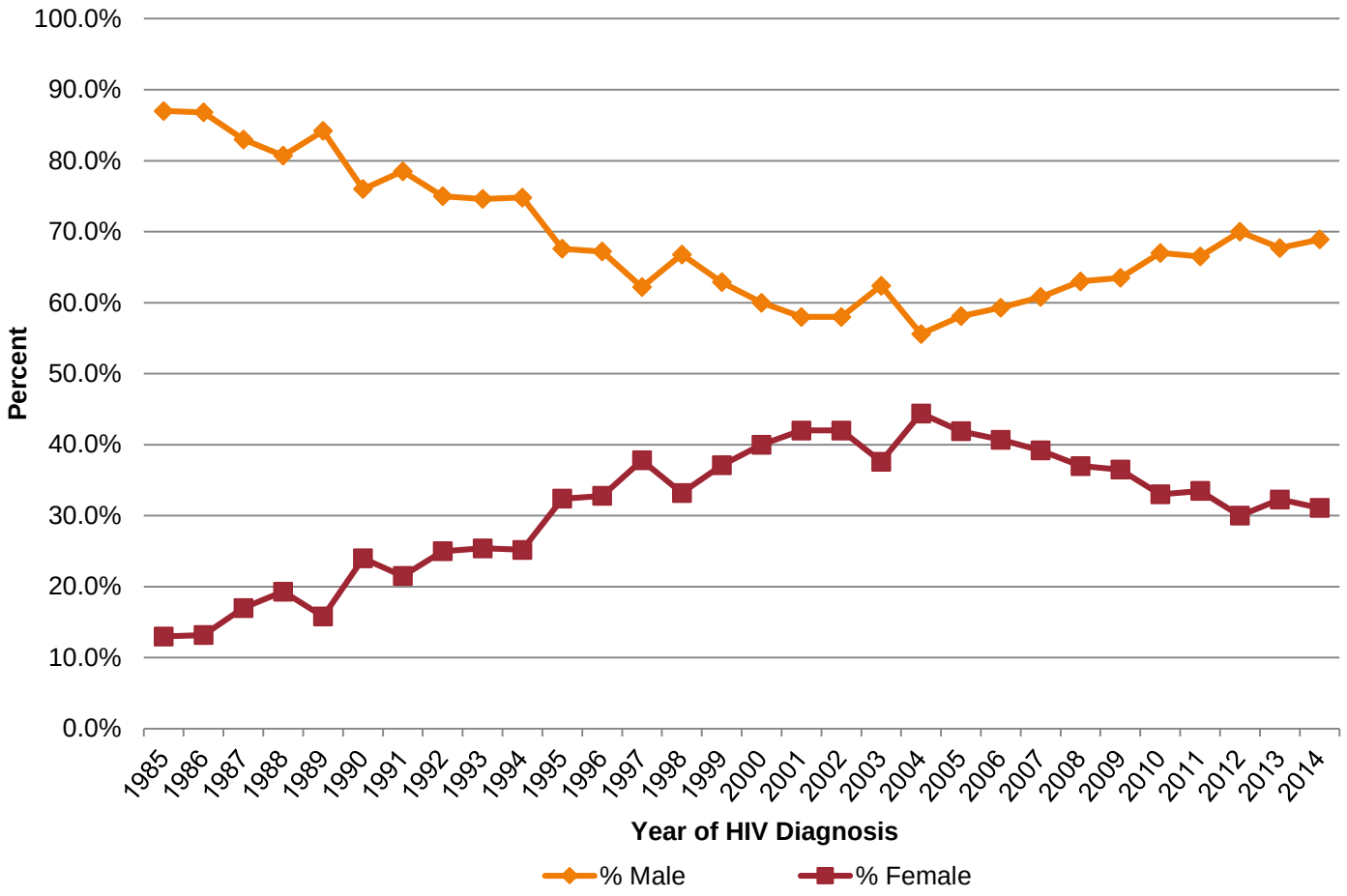


Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth,

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	190	66	256	**2000**	1,568	2,409	3,977
1986	360	113	473	**2001**	1,659	2,642	4,301
1987	548	199	747	**2002**	1,765	2,891	4,656
1988	761	295	1,056	**2003**	1,884	3,168	5,052
1989	998	415	1,413	**2004**	2,086	3,444	5,530
1990	1,236	535	1,771	**2005**	2,273	3,697	5,970
1991	1,469	688	2,157	**2006**	2,548	3,985	6,533
1992	1,542	911	2,453	**2007**	3,017	4,238	7,255
1993	1,481	1,094	2,575	**2008**	3,451	4,486	7,937
1994	1,384	1,282	2,666	**2009**	3,818	4,634	8,452
1995	1,309	1,407	2,716	**2010**	4,167	4,880	9,047
1996	1,285	1,554	2,839	**2011**	4,490	5,051	9,541
1997	1,335	1,755	3,090	**2012**	4,727	5,287	10,014
1998	1,402	1,954	3,356	**2013**	4,935	5,579	10,514
1999	1,486	2,176	3,662	**2014**	5,248	5,798	11,046

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

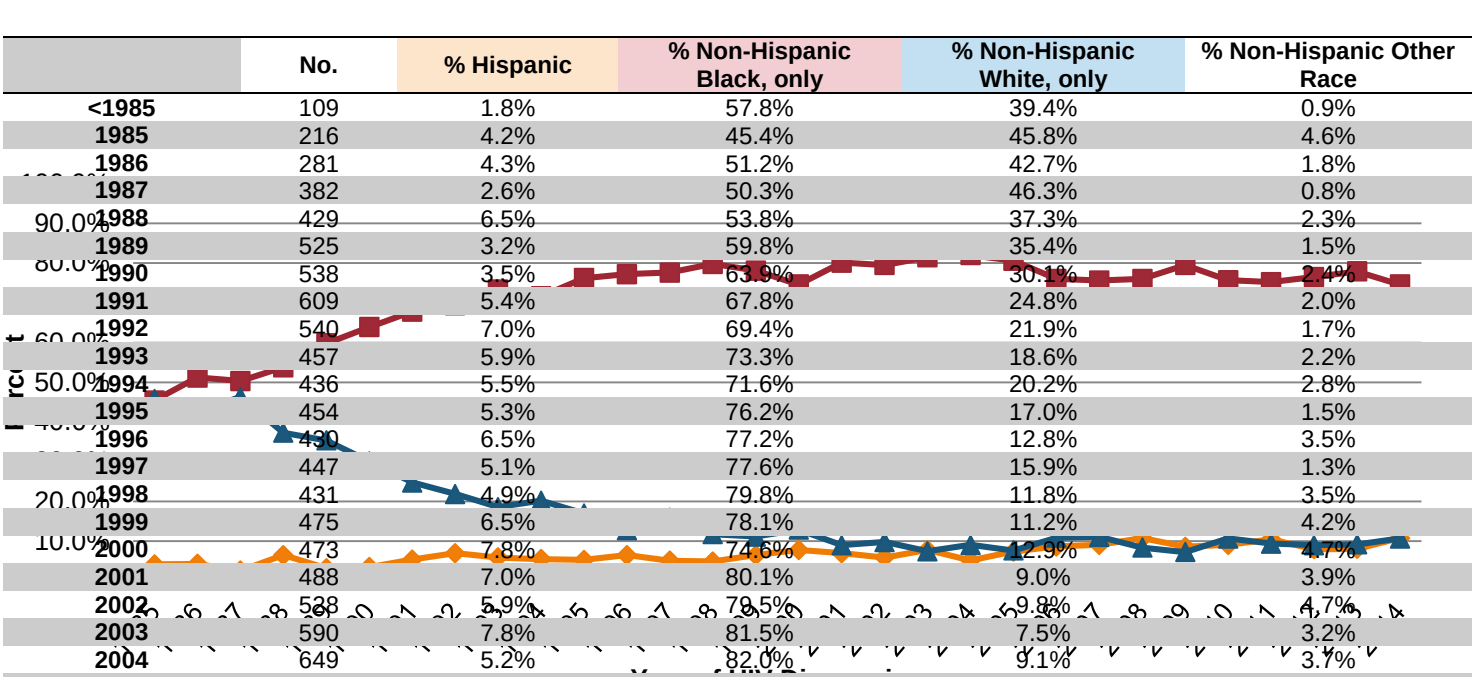


Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses			Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses		
	No.	% Male	% Female		No.	% Male	% Female
<1985	109	90.8%	9.2%	2000	473	60.0%	40.0%
1985	216	87.0%	13.0%	2001	488	58.0%	42.0%
1986	281	86.8%	13.2%	2002	528	58.0%	42.0%
1987	382	83.0%	17.0%	2003	590	62.4%	37.6%
1988	429	80.7%	19.3%	2004	649	55.6%	44.4%
1989	525	84.2%	15.8%	2005	659	58.1%	41.9%
1990	538	76.0%	24.0%	2006	722	59.3%	40.7%
1991	609	78.5%	21.5%	2007	892	60.8%	39.2%
1992	540	75.0%	25.0%	2008	825	63.0%	37.0%
1993	457	74.6%	25.4%	2009	713	63.5%	36.5%
1994	436	74.8%	25.2%	2010	727	67.0%	33.0%
1995	454	67.6%	32.4%	2011	630	66.5%	33.5%
1996	430	67.2%	32.8%	2012	597	70.0%	30.0%
1997	447	62.2%	37.8%	2013	620	67.7%	32.3%
1998	431	66.8%	33.2%	2014	591	68.9%	31.1%
1999	475	62.9%	37.1%	TOTAL	16,463	67.6%	32.4%

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

Year of HIV	Adult/Adolescent Reported HIV Diagnoses

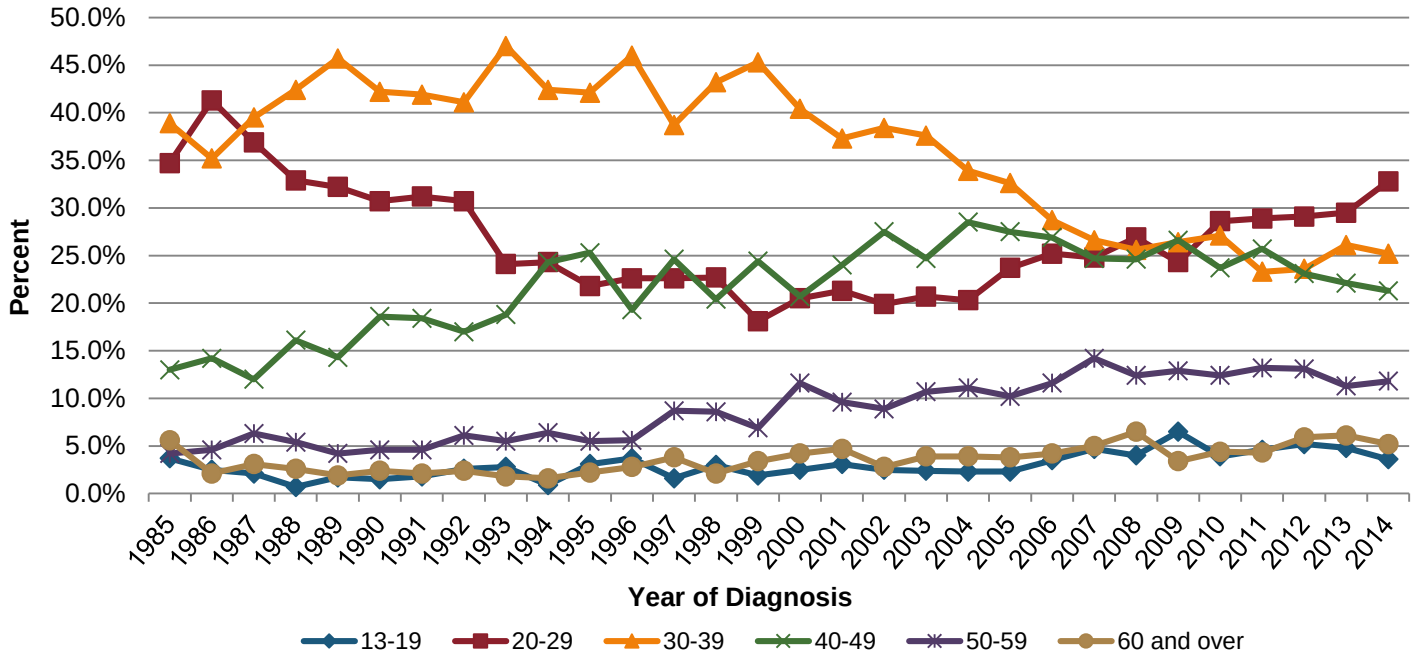
	No.	% Hispanic	% Non-Hispanic Black, only	% Non-Hispanic White, only	% Non-Hispanic Other Race
<1985	109	1.8%	57.8%	39.4%	0.9%
1985	216	4.2%	45.4%	45.8%	4.6%
1986	281	4.3%	51.2%	42.7%	1.8%
1987	382	2.6%	50.3%	46.3%	0.8%
1988	429	6.5%	53.8%	37.3%	2.3%
1989	525	3.2%	59.8%	35.4%	1.5%
1990	538	3.5%	63.9%	30.1%	2.4%
1991	609	5.4%	67.8%	24.8%	2.0%
1992	540	7.0%	69.4%	21.9%	1.7%
1993	457	5.9%	73.3%	18.6%	2.2%
1994	436	5.5%	71.6%	20.2%	2.8%
1995	454	5.3%	76.2%	17.0%	1.5%
1996	430	6.5%	77.2%	12.8%	3.5%
1997	447	5.1%	77.6%	15.9%	1.3%
1998	431	4.9%	79.8%	11.8%	3.5%
1999	475	6.5%	78.1%	11.2%	4.2%
2000	473	7.8%	74.6%	12.9%	4.7%
2001	488	7.0%	80.1%	9.0%	3.9%
2002	538	5.9%	79.5%	9.8%	4.7%
2003	590	7.8%	81.5%	7.5%	3.2%
2004	649	5.2%	82.0%	9.1%	3.7%
2005	659	7.4%	80.6%	7.7%	4.2%
2006	722	8.7%	76.0%	10.9%	4.3%
2007	892	9.1%	[illegible]	11.1%	4.3%
2008	825	10.8	[illegible]	8.4%	4.8%
2009	713	8.6%	79.5%	7.3%	4.6%
2010	727	9.1%	75.7%	10.7%	4.5%
2011	630	10.5%	75.2%	9.4%	4.9%
2012	597	8.0%	76.5%	9.0%	6.4%
2013	620	8.1%	77.9%	9.2%	4.8%
2014	591	10.8%	74.6%	10.7%	3.9%
TOTAL	16,463	7.1%	73.4%	15.9%	3.6%



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

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

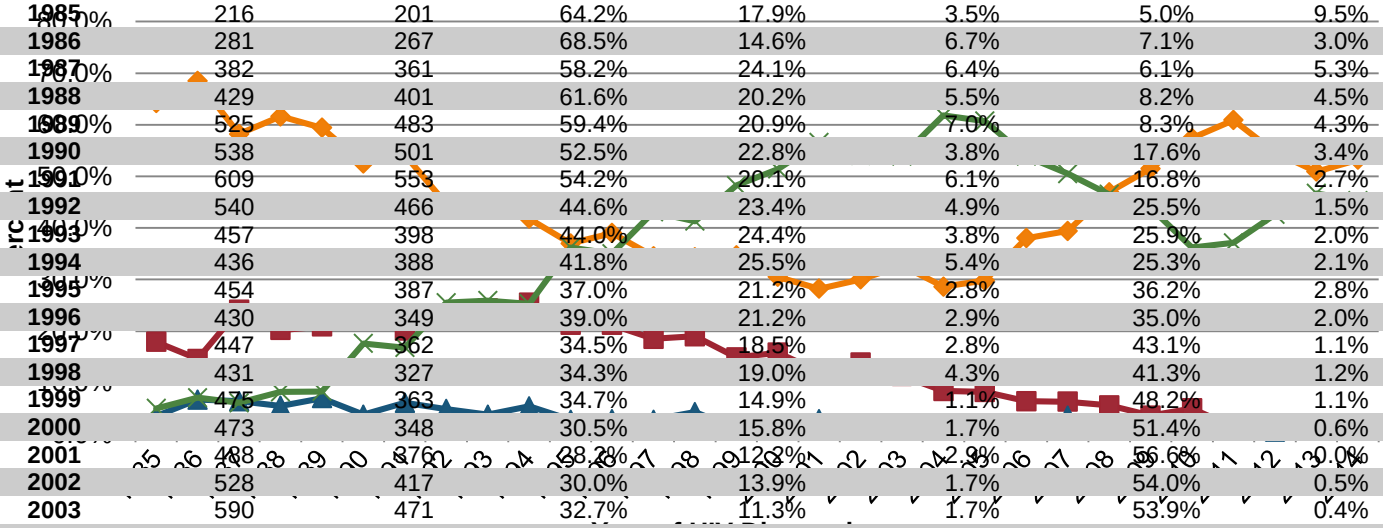
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2014, as Reported through 12/31/2015



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	109	7.3%	36.7%	30.3%	19.3%	3.7%	2.8%
1985	216	3.7%	34.7%	38.9%	13.0%	4.2%	5.6%
1986	281	2.5%	41.3%	35.2%	14.2%	4.6%	2.1%
1987	382	2.1%	36.9%	39.5%	12.0%	6.3%	3.1%
1988	429	0.7%	32.9%	42.4%	16.1%	5.4%	2.6%
1989	525	1.7%	32.2%	45.7%	14.3%	4.2%	1.9%
1990	538	1.5%	30.7%	42.2%	18.6%	4.6%	2.4%
1991	609	1.8%	31.2%	41.9%	18.4%	4.6%	2.1%
1992	540	2.6%	30.7%	41.1%	17.0%	6.1%	2.4%
1993	457	2.8%	24.1%	47.0%	18.8%	5.5%	1.8%
1994	436	0.9%	24.3%	42.4%	24.3%	6.4%	1.6%
1995	454	3.1%	21.8%	42.1%	25.3%	5.5%	2.2%
1996	430	3.7%	22.6%	46.0%	19.3%	5.6%	2.8%
1997	447	1.6%	22.6%	38.7%	24.6%	8.7%	3.8%
1998	431	3.0%	22.7%	43.2%	20.4%	8.6%	2.1%
1999	475	1.9%	18.1%	45.3%	24.4%	6.9%	3.4%
2000	473	2.5%	20.5%	40.4%	20.7%	11.6%	4.2%
2001	488	3.1%	21.3%	37.3%	24.0%	9.6%	4.7%
2002	528	2.5%	19.9%	38.4%	27.5%	8.9%	2.8%
2003	590	2.4%	20.7%	37.6%	24.7%	10.7%	3.9%
2004	649	2.3%	20.3%	33.9%	28.5%	11.1%	3.9%
2005	659	2.3%	23.7%	32.6%	27.5%	10.2%	3.8%
2006	722	3.5%	25.2%	28.7%	26.9%	11.6%	4.2%
2007	892	4.7%	24.8%	26.6%	24.7%	14.2%	5.0%
2008	825	4.0%	26.9%	25.6%	24.6%	12.4%	6.5%
2009	713	6.5%	24.3%	26.4%	26.6%	12.9%	3.4%
2010	727	3.9%	28.6%	27.1%	23.7%	12.4%	4.4%
2011	630	4.6%	28.9%	23.3%	25.7%	13.2%	4.3%
2012	597	5.2%	29.1%	23.6%	23.1%	13.1%	5.9%
2013	620	4.8%	29.5%	26.1%	22.1%	11.3%	6.1%
2014	591	3.6%	32.8%	25.2%	21.3%	11.8%	5.2%
Total	16,463	3.2%	26.5%	34.8%	22.5%	9.3%	3.8%
Year	Adult/Adolescent Reported HIV Diagnoses						

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

	No.	With Exposure Category					
		No.	% MSM	% IDU	% MSM/IDU	% HET	% Other Exposure
<1985	109	97	70.1%	13.4%	5.2%	8.2%	3.1%
1985	216	201	64.2%	17.9%	3.5%	5.0%	9.5%
1986	281	267	68.5%	14.6%	6.7%	7.1%	3.0%
1987	382	361	58.2%	24.1%	6.4%	6.1%	5.3%
1988	429	401	61.6%	20.2%	5.5%	8.2%	4.5%
1989	525	483	59.4%	20.9%	7.0%	8.3%	4.3%
1990	538	501	52.5%	22.8%	3.8%	17.6%	3.4%
1991	609	553	54.2%	20.1%	6.1%	16.8%	2.7%
1992	540	466	44.6%	23.4%	4.9%	25.5%	1.5%
1993	457	398	44.0%	24.4%	3.8%	25.9%	2.0%
1994	436	388	41.8%	25.5%	5.4%	25.3%	2.1%
1995	454	387	37.0%	21.2%	2.8%	36.2%	2.8%
1996	430	349	39.0%	21.2%	2.9%	35.0%	2.0%
1997	447	362	34.5%	18.5%	2.8%	43.1%	1.1%
1998	431	327	34.3%	19.0%	4.3%	41.3%	1.2%
1999	475	363	34.7%	14.9%	1.1%	48.2%	1.1%
2000	473	348	30.5%	15.8%	1.7%	51.4%	0.6%
2001	488	376	28.2%	12.8%	2.9%	56.6%	0.0%
2002	528	417	30.0%	13.9%	1.7%	54.0%	0.5%
2003	590	471	32.7%	11.3%	1.7%	53.9%	0.4%
2004	649	479	28.6%	8.4%	1.3%	61.8%	0.0%
2005	659	453	29.8%	8.2%	1.3%	60.7%	0.0%
2006	722	440	38.0%	6.4%	1.8%	53.9%	0.0%
2007	892	495	39.4%	6.3%	3.6%	50.5%	0.2%
2008	825	409	46.9%	5.6%	0.7%	46.5%	0.2%
2009	713	330	51.5%	3.6%	0.9%	43.9%	0.0%
2010	727	343	57.4%	5.0%	1.5%	36.2%	0.0%
2011	630	294	60.9%	1.4%	0.7%	37.1%	0.0%
2012	597	371	54.7%	1.9%	0.5%	42.6%	0.3%
2013	620	407	50.9%	1.5%	0.7%	46.7%	0.2%
2014	591	391	53.2%	0.8%	0.8%	45.3%	0.0%
TOTAL	16,463	11,928	44.9%	13.8%	3.0%	36.7%	1.5%



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

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
Calvert	75,818	2	0.3%	2.6	***	***	***	***	***	***	***
Charles	128,189	39	6.6%	30.4	31	79.5%	11	28.2%	29	74.4%	325

Frederick	202,815	12	2.0%	5.9	***	***	***	***	***	***	***
Montgomery	855,169	179	30.3%	20.9	144	80.4%	62	34.6%	151	84.4%	293
Prince George's	753,706	359	60.7%	47.6	294	81.9%	94	26.2%	291	81.1%	397
TOTAL	2,015,697	591	100.0%	29.3	480	81.2%	169	28.6%	483	81.7%	368

*** 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
Calvert	75,818	1	0.3%	1.3	***	***
Charles	128,189	19	6.5%	14.8	2.8	57.9%
Frederick	202,815	5	1.7%	2.5	***	***
Montgomery	855,169	87	29.8%	10.2	2	74.7%
Prince George's	753,706	180	61.6%	23.9	3.2	58.9%
Total	2,015,697	292	100.0%	14.5	2.8	63.4%

*** 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 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).
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)
Calvert	75,818	51	1.0%	67.3	52	0.9%	68.6	103	0.9%	135.9	736
Charles	128,189	200	3.9%	156.0	173	3.0%	135.0	373	3.4%	291.0	343
Frederick	202,815	152	2.9%	74.9	150	2.6%	74.0	302	2.8%	148.9	671
Montgomery	855,169	1,624	31.5%	189.9	1,930	33.7%	225.7	3,554	32.6%	415.6	240
Prince George's	753,706	3,128	60.7%	415.0	3,426	59.8%	454.6	6,554	60.2%	869.6	114
Total	2,015,697	5,155	100.0%	255.7	5,731	100.0%	284.3	10,886	100.0%	540.1	185

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	
Calvert	75,818	103	0.9%	135.9	736	128	1.0%	168.8	592	24.3%	114	1.1%	150	665	10.7%
Charles	128,189	373	3.4%	291.0	343	465	3.7%	362.7	275	24.7%	403	4.0%	314	318	8.0%
Frederick	202,815	302	2.8%	148.9	671	394	3.1%	194.3	514	30.5%	318	3.2%	157	637	5.3%
Montgomery	855,169	3,554	32.6%	415.6	240	3,722	29.7%	435.2	229	4.7%	2,766	27.6%	323	309	-22.2%
Prince George's	753,706	6,554	60.2%	869.6	114	7,832	62.5%	1,039.1	96	19.5%	6,419	64.1%	852	117	-2.1%
TOTAL	2,015,697	10,886	100.0%	540.1	185	12,541	100.0%	622.2	160	15.2%	10,020	100.0%	497	201	-8.0%

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+
Calvert	103	65	63.1%	631	6.2%	12.3%	15.4%	66.2%
Charles	373	225	60.3%	588	13.3%	12.0%	12.0%	62.7%
Frederick	302	155	51.3%	539	8.4%	10.3%	21.9%	59.4%
Montgomery	3,554	1,758	49.5%	538	10.5%	14.4%	19.5%	55.6%
Prince George's	6,554	3,534	53.9%	515	13.0%	15.0%	19.6%	52.4%
Total	10,886	5,737	52.7%	529	12.0%	14.6%	19.3%	54.1%

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).

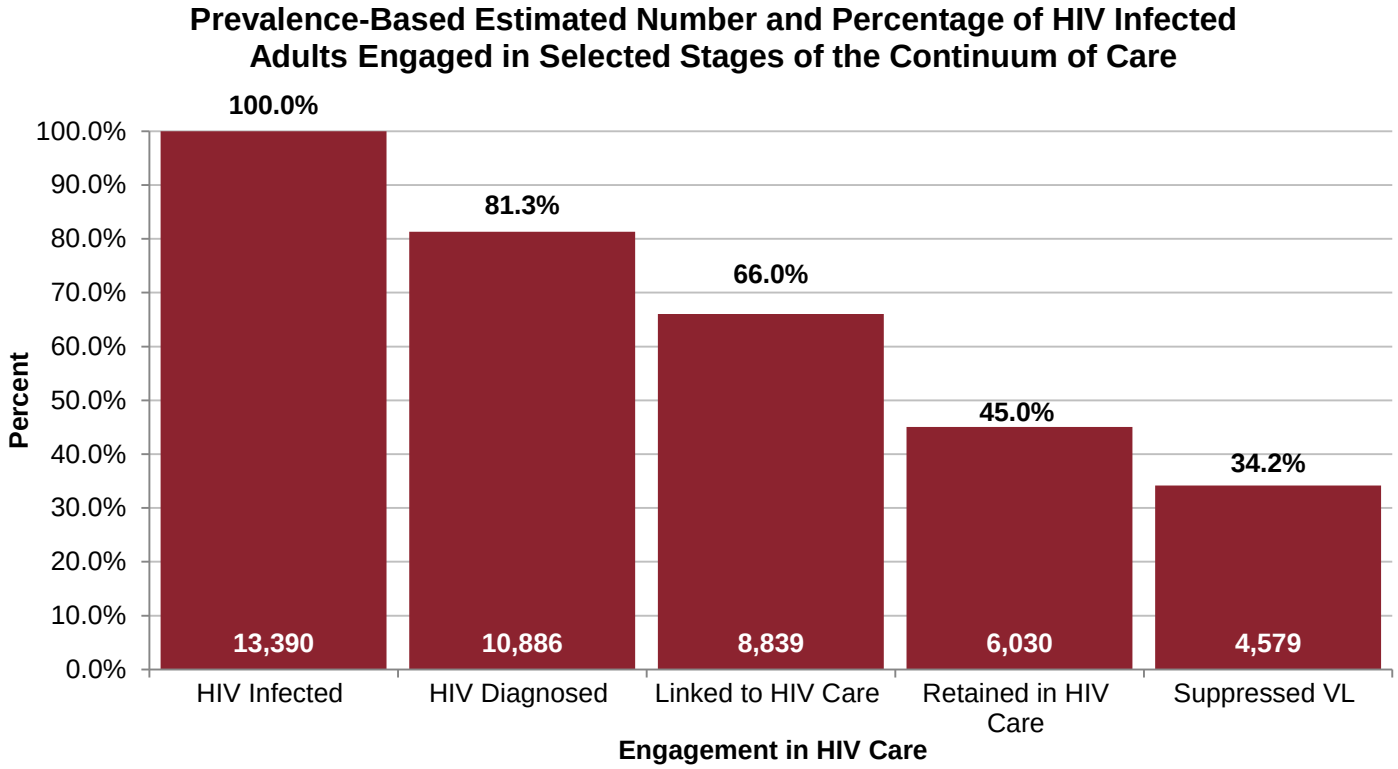
Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2014, by Jurisdiction, Reported through 12/31/2015

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
Calvert	103	63	61.2%	92.1%	34,480
Charles	373	229	61.4%	73.8%	13,934
Frederick	302	162	53.6%	88.9%	4,095
Montgomery	3,554	1,759	49.5%	84.3%	8,501
Prince George's	6,554	3,518	53.7%	77.5%	11,465
Total	10,886	5,731	52.6%	79.9%	10,000

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



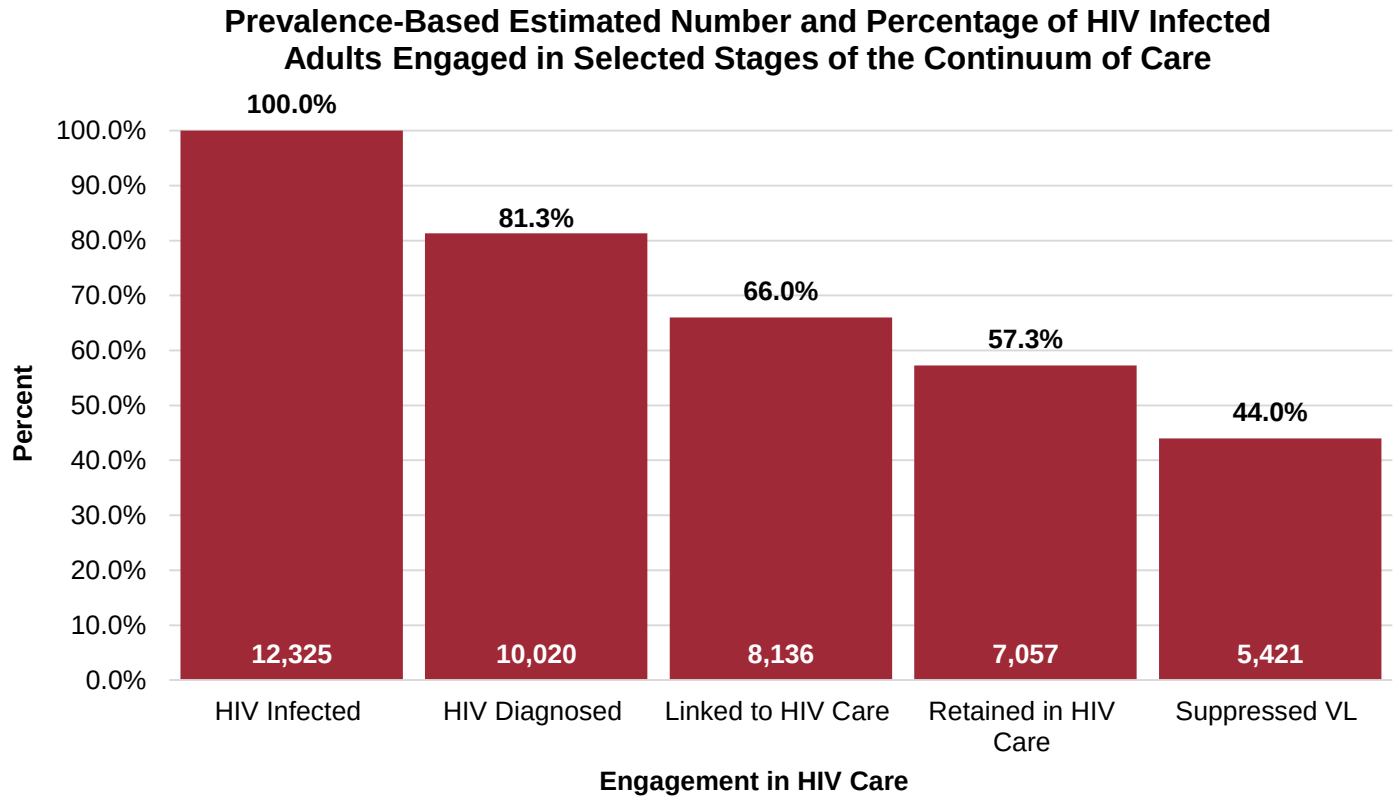
Continuum of Care Stage	Number	Percentage
HIV Infected	13,390	100.0%
HIV Diagnosed	10,886	81.3%
Linked to HIV Care	8,839	66.0%
Retained in HIV Care	6,030	45.0%
Suppressed VL	4,579	34.2%

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 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): 793-800.
[2] Centers for Disease Control and Prevention, Morbidity and Mortality Weekly Report, June 26, 2015.

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

The prevalence based Washington Metro 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 Washington Metro area. It then uses local data for current Maryland residents to describe the number and percentage of persons living with HIV in the Washington Metro area who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Number	Percentage
HIV Infected	12,325	100.0%
HIV Diagnosed	10,020	81.3%
Linked to HIV Care	8,136	66.0%
Retained in HIV Care	7,057	57.3%
Suppressed VL	5,421	44.0%

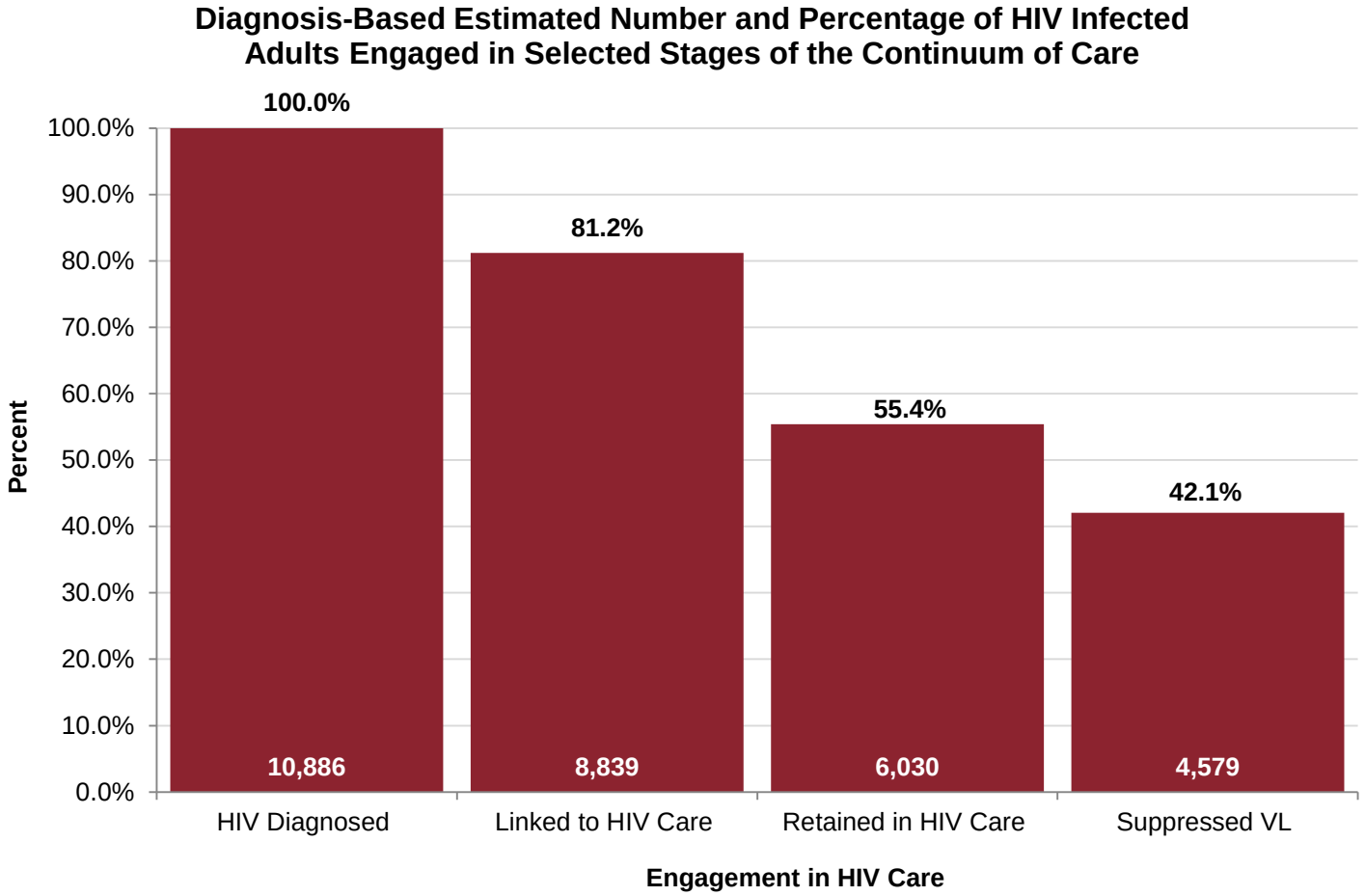
HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (18.7%) in Maryland.
HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.
Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV 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.

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 26, 2015.

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

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

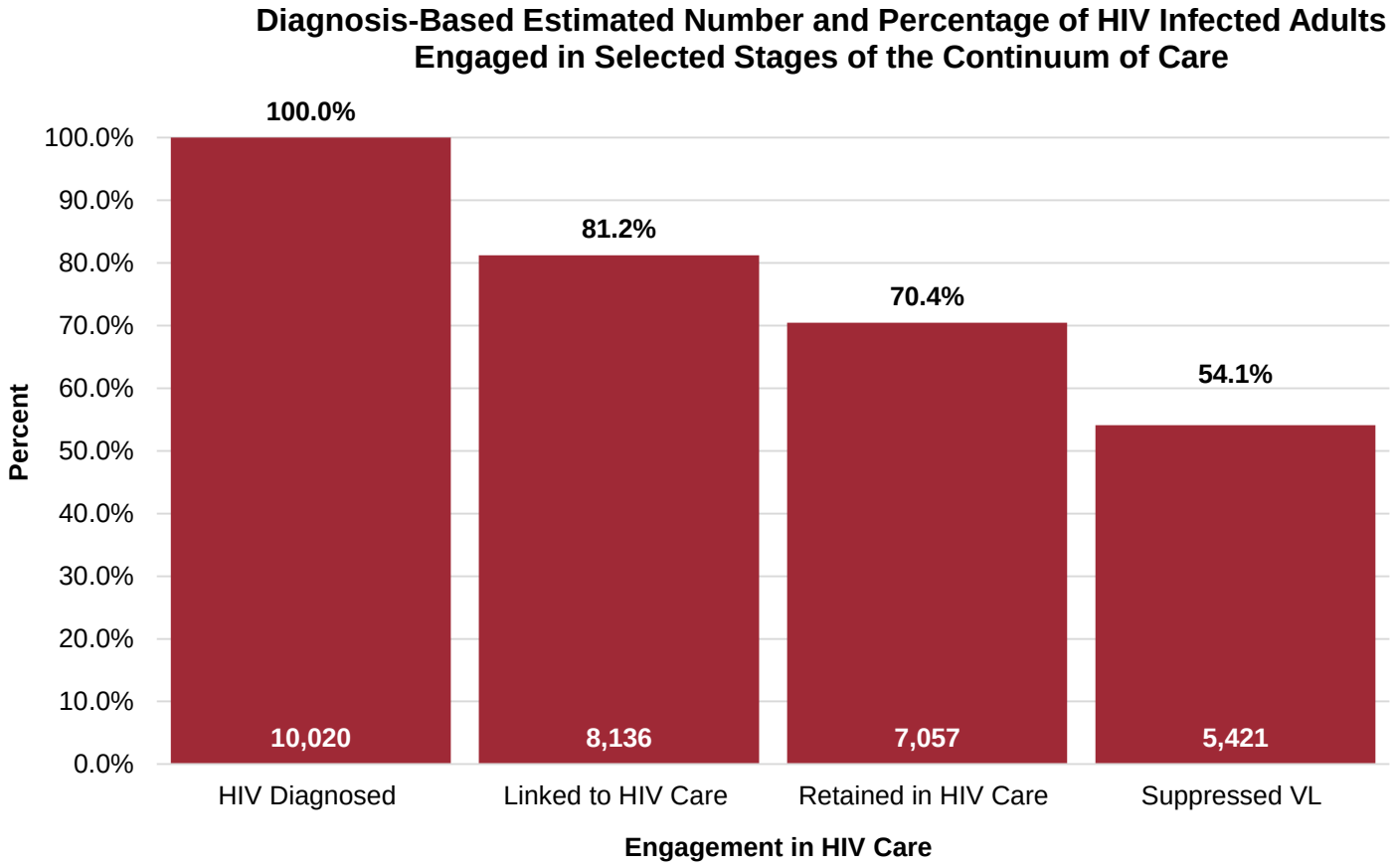


Continuum of Care Stage	Number	Percentage
HIV Diagnosed	10,886	100.0%
Linked to HIV Care	8,839	81.2%
Retained in HIV Care	6,030	55.4%
Suppressed VL	4,579	42.1%

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 12/31/2014

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



Continuum of Care Stage	Number	Percentage
HIV Diagnosed	10,020	100.0%
Linked to HIV Care	8,136	81.2%
Retained in HIV Care	7057	70.4%
Suppressed VL	5,421	54.1%

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.

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, and 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)	156,350	2	0.3%	1.3	***	***	***	***	***	***	***
5-12 (Pediatric)	251,865	1	0.2%	0.4	***	***	***	***	***	***	***
13-19	221,881	21	3.5%	9.5	19	90.5%	***	***	17	81.0%	488
20-29	324,141	194	32.7%	59.9	152	78.4%	41	21.1%	157	80.9%	430
30-39	330,964	149	25.1%	45.0	124	83.2%	44	29.5%	125	83.9%	339
40-49	346,897	126	21.2%	36.3	105	83.3%	51	40.5%	102	81.0%	251
50-59	352,568	70	11.8%	19.9	54	77.1%	19	27.1%	57	81.4%	425
60+	439,246	31	5.2%	7.1	26	83.9%	13	41.9%	25	80.6%	161
Total	2,423,912	594	100.0%	24.5	483	81.3%	169	28.5%	486	81.8%	369

*** 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)	156,350	0	0.0%	0.0	--	--
5-12 (Pediatric)	251,865	0	0.0%	0.0	--	--
13-19	221,881	2	0.7%	0.9	***	***
20-29	324,141	64	21.8%	19.7	1.5	68.8%
30-39	330,964	82	27.9%	24.8	2.6	59.8%
40-49	346,897	87	29.6%	25.1	3.3	65.5%
50-59	352,568	38	12.9%	10.8	4.5	55.3%
60+	439,246	21	7.1%	4.8	3.4	61.9%
Total	2,423,912	294	100.0%	12.1	2.9	62.9%

*** 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	156,350	5	0.1%	3.2	0	0.0%	0.0	5	0.0%	3.2	31,270
5-12	251,865	23	0.4%	9.1	4	0.1%	1.6	27	0.2%	10.7	9,328
13-19	221,881	73	1.4%	32.9	22	0.4%	9.9	95	0.9%	42.8	2,335
20-29	324,141	905	17.2%	279.2	362	6.2%	111.7	1,267	11.5%	390.9	255
30-39	330,964	1,283	24.4%	387.7	953	16.4%	287.9	2,236	20.2%	675.6	148
40-49	346,897	1,358	25.9%	391.5	1,841	31.8%	530.7	3,199	29.0%	922.2	108
50-59	352,568	1,114	21.2%	316.0	1,776	30.6%	503.7	2,890	26.2%	819.7	121
60+	439,246	487	9.3%	110.9	840	14.5%	191.2	1,327	12.0%	302.1	331
Total	2,423,912	5,248	100.0%	216.5	5,798	100.0%	239.2	11,046	100.0%	455.7	219

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	44	27	61.4%	504	3.7%	25.9%	14.8%	55.6%
20-29	1,198	685	57.2%	538	10.9%	13.6%	18.5%	56.9%
30-39	2,228	1,207	54.2%	526	13.4%	13.6%	19.5%	53.5%
40-49	3,199	1,671	52.2%	516	13.3%	15.0%	19.6%	52.2%
50-59	2,890	1,484	51.3%	540	10.5%	15.4%	19.1%	54.9%
60+	1,327	663	50.0%	533	11.2%	13.9%	19.6%	55.4%
Total	10,886	5,737	52.7%	529	12.0%	14.6%	19.3%	54.1%

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	44	29	65.9%	34.5%	2,712
20-29	1,198	688	57.4%	63.8%	16,064
30-39	2,228	1,201	53.9%	76.7%	21,345
40-49	3,199	1,685	52.7%	81.1%	8,803
50-59	2,890	1,480	51.2%	85.7%	5,440
60+	1,327	648	48.8%	88.6%	5,595
Total	10,886	5,731	52.6%	79.9%	10,000

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	963,367	407	68.9%	42.2	332	81.6%	107	26.3%	333	81.8%	417
Female	1,052,330	184	31.1%	17.5	148	80.4%	62	33.7%	150	81.5%	292
Total	2,015,697	591	100%	29.3	480	81.2%	169	28.6%	483	81.7%	368

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	285,417	64	10.8%	22.4	47	73.4%	28	43.8%	54	84.4%	237
Non-Hispanic	1,730,280	527	89.2%	30.5	433	82.2%	141	26.8%	429	81.4%	374
American Indian/Alaska Native, only	4,852	0	0.0%	0.0	--	--	--	--	--	--	--
Asian, only	179,970	11	1.9%	6.1	10	90.9%	***	***	10	90.9%	216
Black, only	703,384	441	74.6%	62.7	363	82.3%	124	28.1%	365	82.8%	370
Native Hawaiian/ Other Pacific Islander, only	1,027	0	0.0%	0.0	--	--	--	--	--	--	--
White, only	803,998	63	10.7%	7.8	51	81.0%	11	17.5%	43	68.3%	447
Multiracial/ Other	221,414	12	2.0%	5.4	9	75.0%	***	***	11	91.7%	420
Total	2,015,697	591	100.0%	29.3	480	81.2%	169	28.6%	483	81.7%	368

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	1,441,725	446	75.5%	30.9	352	78.9%	117	26.2%	353	79.1%	396
Foreign-born	520,555	92	15.6%	17.7	79	85.9%	37	40.2%	82	89.1%	293
Africa	--	70	11.8%	--	62	88.6%	27	38.6%	64	91.4%	294
Asia	--	5	0.8%	--	***	***	***	***	***	***	***
Caribbean	--	4	0.7%	--	***	***	***	***	***	***	***
Central America	--	10	1.7%	--	6	60.0%	***	***	7	70.0%	253
Other	--	3	0.5%	--	***	***	***	***	***	***	***
Unknown	--	53	9.0%	--	49	92.5%	15	28.3%	48	90.6%	388
Total	1,962,279	591	100.0%	30.1	480	81.2%	169	28.6%	483	81.7%	368

* 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 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).

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	963,367	191	65.4%	19.8	3.1	62.3%
Female	1,052,330	101	34.6%	9.6	2.2	65.3%
Total	2,015,697	292	100.0%	14.5	2.8	63.4%

Race/Ethnicity	Population Age 13+*	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Hispanic	285,417	34	11.6%	16.5	1.6	72.3%
Non-Hispanic	1,730,280	258	88.4%	14.2	3.0	61.6%
American Indian/Alaska Native, only	4,852	0	0.0%	0.0	--	--
Asian, only	179,970	6	2.1%	3.3	0.4	100.0%
Black, only	703,384	225	77.1%	30.3	3.0	62.2%
Native Hawaiian/Other Pacific Islander, only	1,027	0	0.0%	0.0	--	--
White, only	803,998	17	5.8%	2.2	3.3	58.8%
Multiracial/Other	221,414	10	3.4%	3.6	3.9	30.0%
Total	2,015,697	292	100.0%	14.5	2.8	63.4%

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	1,441,725	221	75.7%	15.3	3.3	57
Foreign-born	520,555	53	18.2%	10.2	1.5	79.2
Africa	--	39	13.36%	--	1.2	82.1
Asia	--	2	0.68%	--	***	***
Caribbean	--	4	1.37%	--	***	***
Central America	--	6	2.05%	--	1.9	66.7
Other	--	2	0.68%	--	***	***
Unknown	--	18	6.16%	--	0.4	94.4
Total	1,962,279	292	100.0%	14.9	2.8	63.4

* 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	963,367	3,218	62.4%	334.0	3,626	63.3%	376.4	6,844	62.9%	710.4	140
Female	1,052,330	1,937	37.6%	184.1	2,105	36.7%	200.0	4,042	37.1%	384.1	260
Total	2,015,697	5,155	100.0%	255.7	5,731	100.0%	284.3	10,886	100.0%	540.1	185

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	285,417	397	7.7%	139.1	561	9.8%	197	958	8.8%	335.6	297
Non-Hispanic	1,730,280	4,758	92.3%	275.0	5,170	90.2%	299	9,928	91.2%	573.8	174
American Indian/Alaska Native, only	4,852	6	0.1%	123.7	1	0.0%	21	7	0.1%	144.3	693
Asian, only	179,970	58	1.1%	32.2	39	0.7%	22	97	0.9%	53.9	1,855
Black, only	703,384	3,909	75.8%	555.7	4,318	75.3%	614	8,227	75.6%	1,169.6	85
Native Hawaiian/ Other Pacific Islander, only	1,027	1	0.0%	97.4	3	0.1%	292	4	0.0%	389.5	256
White, only	803,998	636	12.3%	79.1	591	10.3%	74	1227	11.3%	152.6	655
Multiracial/Other	221,414	148	2.9%	66.8	218	3.8%	98	366	3.4%	165.3	604
Total	2,015,697	5,155	100.0%	255.7	5,731	100.0%	284	10,886	100.0%	540.1	185

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	1,441,725	4,235	82.2%	293.7	4,423	77.2%	306.8	8,658	79.5%	600.5	166
Foreign-born	520,555	741	14.4%	142.3	1,230	21.5%	236.3	1,971	18.1%	378.6	264
Africa	--	477	9.3%	--	811	14.2%	--	1,288	11.8%	--	--
Asia	--	30	0.6%	--	34	0.6%	--	64	0.6%	--	--
Caribbean	--	52	1.0%	--	85	1.5%	--	137	1.3%	--	--
Central America	--	106	2.1%	--	202	3.5%	--	308	2.8%	--	--
Other	--	76	1.5%	--	98	1.7%	--	174	1.6%	--	--
Unknown	--	179	3.5%	--	78	1.4%	--	257	2.4%	--	--
Total	1,962,279	5,155	100.0%	262.7	5,731	100.0%	292.1	10,886	100.0%	554.8	180

* 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	6,844	3,535	51.7%	513	12.8%	15.3%	19.7%	52.2%
Female	4,042	2,202	54.5%	551	10.7%	13.4%	18.7%	57.2%
Total	10,886	5,737	52.7%	529	12.0%	14.6%	19.3%	54.1%

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	958	491	51.3%	492	13.4%	17.5%	19.6%	49.5%
Non-Hispanic	9,928	5,246	52.8%	532	11.9%	14.3%	19.3%	54.6%
American Indian/Alaska Native, only	7	***	***	***	***	***	***	***
Asian, only	97	54	55.7%	517	7.4%	13.0%	25.9%	53.7%
Black, only	8,227	4,392	53.4%	526	12.6%	14.6%	19.2%	53.6%
Native Hawaiian/Other Pacific Islander, only	4	***	***	***	***	***	***	***
White, only	1,227	562	45.8%	584	6.8%	13.3%	17.8%	62.1%
Multiracial/Other	366	235	64.2%	522	12.8%	11.1%	22.1%	54.0%
Total	10,886	5,737	52.7%	529	12.0%	14.6%	19.3%	54.1%

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	8,658	4,524	52.3%	532	12.6%	14.0%	18.8%	54.6%
Foreign-born	1,288	721	56.0%	503	10.3%	17.9%	21.4%	50.5%
Africa	64	37	57.8%	519	8.1%	10.3%	24.3%	56.8%
Asia	137	71	51.8%	591	12.7%	7.0%	16.9%	63.4%
Caribbean	308	164	53.2%	466	11.6%	21.3%	22.0%	45.1%
Central America	174	73	42.0%	525	2.7%	12.3%	28.8%	56.2%
Other	1,971	1,066	54.1%	508	10.0%	17.1%	21.8%	51.1%
Unknown	257	147	57.2%	564	9.5%	13.6%	16.3%	60.5%
Total	10,886	5,737	52.7%	529	12.0%	14.6%	19.3%	54.1%

*** 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	6,844	3,516	51.4%	79.3%	12,827
Female	4,042	2,215	54.8%	80.9%	8,817
Total	10,886	5,731	52.6%	79.9%	10,000

Race/Ethnicity	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	958	486	50.7%	80.5%	17,710
Non-Hispanic	9,928	5,245	52.8%	79.8%	9,820
American Indian/Alaska Native, only	7	***	***	***	***
Asian, only	97	54	55.7%	83.3%	12,589
Black, only	8,227	4,377	53.2%	78.8%	9,300
Native Hawaiian/Other Pacific Islander, only	4	***	***	***	***
White, only	1,227	572	46.6%	88.8%	13,682
Multiracial/Other	366	238	65.0%	77.3%	23,339
Total	10,886	5,731	52.6%	79.9%	10,000

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	8,658	4,512	52.1%	78.6%	11,855
Foreign-born	1,288	728	56.5%	86.8%	4,411
Africa	64	37	57.8%	81.1%	2,770
Asia	137	71	51.8%	77.5%	5,403
Caribbean	308	164	53.2%	81.7%	24,575
Central America	174	74	42.5%	89.2%	1,320
Other	1,971	1,074	54.5%	85.4%	4,744
Unknown	257	145	56.4%	79.3%	6,115
Total	10,886	5,731	52.6%	79.9%	10,000

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.

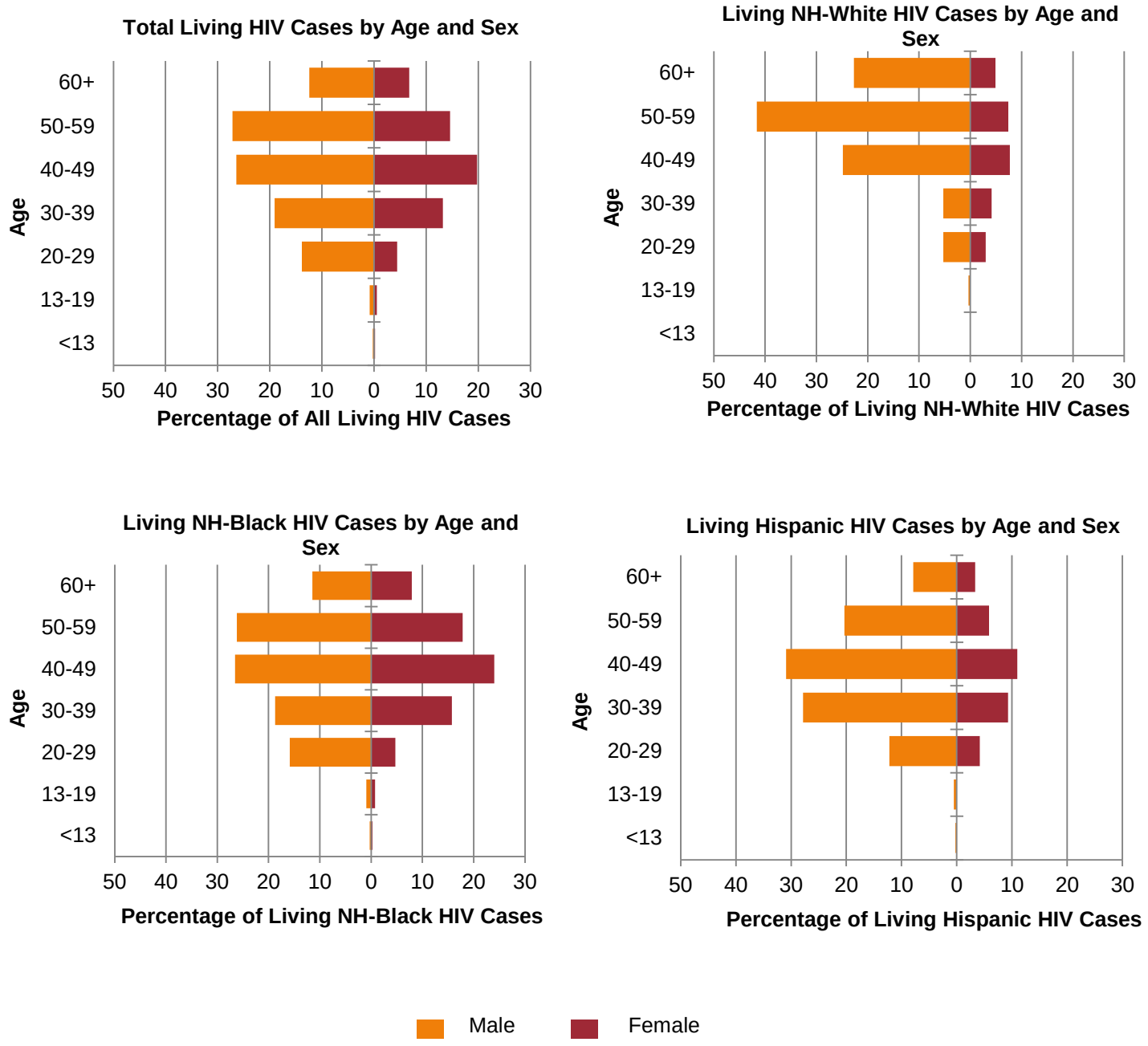
Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

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	47,244	70,722	62,952	27,350	208,267
	Cases	2	13	0	3	18
	Rate	4.2	18.4	0.0	11.0	8.6
	Ratio (1 in X)	23,621	5,440	--	9,116	11,570
13-19	Population	20,229	40,584	39,650	13,252	113,716
	Cases	4	47	3	3	57
	Rate	19.8	115.8	7.6	22.6	50.1
	Ratio (1 in X)	5,057	863	13,216	4,417	1,995
20-29	Population	33,588	57,349	55,227	18,090	164,254
	Cases	88	774	47	50	959
	Rate	262.0	1,349.6	85.1	276.4	583.9
	Ratio (1 in X)	381	74	1,175	361	171
30-39	Population	39,141	51,464	52,024	18,776	161,405
	Cases	201	914	137	70	1322
	Rate	513.5	1,776.0	263.3	372.8	819.1
	Ratio (1 in X)	194	56	379	268	122
40-49	Population	28,317	58,283	60,453	18,233	165,286
	Cases	223	1296	222	90	1831
	Rate	787.5	2,223.6	367.2	493.6	1,107.8
	Ratio (1 in X)	126	44	272	202	90
50-59	Population	17,066	56,069	77,695	15,905	166,735
	Cases	147	1278	372	83	1880
	Rate	861.4	2,279.3	478.8	521.8	1,127.5
	Ratio (1 in X)	116	43	208	191	88
60+	Population	11,146	55,617	106,198	19,010	191,971
	Cases	57	560	203	39	859
	Rate	511.4	1,006.9	191.2	205.2	447.5
	Ratio (1 in X)	195	99	523	487	223
Total Males by Race/Ethnicity	Population	196,731	390,088	454,199	130,616	1,171,634
	Cases	722	4,882	984	338	6,926
	Rate	367.0	1,251.5	216.6	258.8	591.1
	Ratio (1 in X)	272	79	461	386	169

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	44,648	68,662	60,421	26,217	199,948
	Cases	0	13	0	1	14
	Rate	0.0	18.9	0.0	3.8	7.0
	Ratio (1 in X)	--	5,281	--	26,217	14,282
13-19	Population	18,420	39,731	36,976	13,038	108,165
	Cases	0	37	0	1	38
	Rate	--	93.1	--	7.7	35.1
	Ratio (1 in X)	--	1,073	--	13,037	2,846
20-29	Population	28,459	61,018	52,040	18,370	159,887
	Cases	30	231	27	20	308
	Rate	105.4	378.6	51.9	108.9	192.6
	Ratio (1 in X)	948	264	1,927	918	519
30-39	Population	31,581	62,299	52,781	22,898	169,559
	Cases	67	769	49	29	914
	Rate	212.2	1,234.4	92.8	126.6	539.0
	Ratio (1 in X)	471	81	1,077	789	185
40-49	Population	24,946	71,216	63,360	22,089	181,611
	Cases	79	1172	69	48	1,368
	Rate	316.7	1,645.7	108.9	217.3	753.3
	Ratio (1 in X)	315	60	918	460	132
50-59	Population	17,177	69,120	80,122	19,414	185,833
	Cases	42	870	66	32	1,010
	Rate	244.5	1,258.7	82.4	164.8	543.5
	Ratio (1 in X)	408	79	1,213	606	183
60+	Population	15,346	80,635	127,471	23,823	247,275
	Cases	24	386	44	14	468
	Rate	156.4	478.7	34.5	58.8	189.3
	Ratio (1 in X)	639	208	2,897	1,701	528
Total Females by Race/Ethnicity	Population	180,577	452,681	473,171	145,849	1,252,278
	Cases	242	3,478	255	145	4,120
	Rate	134.0	768.3	53.9	99.4	329.0
	Ratio (1 in X)	746	130	1,855	1,005	303

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								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure	391	100.0%	327	83.6%	110	28.1%	342	87.5%	374
Men who have Sex with Men (MSM)	208	53.2%	168	80.8%	44	21.2%	175	84.1%	438
Injection Drug Users (IDU)	***	***	***	***	***	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	3	0.8%	1	33.3%	0	0.0%	2	66.7%	690
Heterosexual Exposure (HET)	177	45.3%	156	88.1%	65	36.7%	163	92.1%	293
Other Exposure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	--
No Reported Exposure	200		153	76.5%	59	29.5%	141	70.5%	324
Total	591		480	81.2%	169	28.6%	483	81.7%	368

Male Exposure Category	Adult/Adolescent Reported HIV Diagnoses								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure	277	100.0%	224	80.9%	69	24.9%	235	84.8%	420
Men who have Sex with Men (MSM)	208	75.1%	168	80.8%	44	21.2%	175	84.1%	438
Injection Drug Users (IDU)	***	***	***	***	***	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***	***	***	***	***	***
Heterosexual Exposure (HET)	64	23.1%	53	82.8%	24	37.5%	56	87.5%	285
Other Exposure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	--
No Reported Exposure	130		108	83.1%	38	29.2%	98	75.4%	370
Total	407		332	81.6%	107	26.3%	333	81.8%	417

Female Exposure Category	Adult/Adolescent Reported HIV Diagnoses								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. With Test	% with Test	Median Count
With Exposure	114	100.0%	103	90.4%	41	36.0%	107	93.9%	293
Injection Drug Users (IDU)	***	***	***	***	***	***	***	***	***
Heterosexual Exposure (HET)	113	99.1%	103	91.2%	41	36.3%	107	94.7%	293
Other Exposure	***	***	***	***	***	***	***	***	***
No Reported Exposure*	70		45	64.3%	21	30.0%	43	61.4%	230
Total	184		148	80.4%	62	33.7%	150	81.5%	292

***** Includes 2 new HIV diagnoses with Presumed Female Heterosexual exposure

*** 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	194	100.0%	3.0	63.4%
Men who have Sex with Men (MSM)	90	46.4%	3.7	55.6%
Injection Drug Users (IDU)	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***
Heterosexual Exposure (HET)	99	51.0%	2.3	71.7%
Other Exposures	0	0.0%	--	0.0%
No Reported Exposure	98		2.4	63.3%
Total	292		2.8	63.4%

Male Exposure Category	Adult/Adolescent AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	132	100.0%	3.5	58.3%
Men who have Sex with Men (MSM)	90	68.2%	3.7	55.6%
Injection Drug Users (IDU)	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***
Heterosexual Exposure (HET)	39	29.5%	2.9	66.7%
Other Exposures	0	0.0%	--	0.0%
No Reported Exposure	59		2.2	71.2%
Total	191		3.1	62.3%

Female Exposure Category	Adult/Adolescent AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	62	100.0%	2.0	74.2%
Injection Drug Users (IDU)	2	3.2%	5.3	50.0%
Heterosexual Exposure (HET)	60	96.8%	1.9	75.0%
Other Exposures	0	0.0%	--	0.0%
No Reported Exposure*	39		2.5	51.3%
Total	101		2.2	65.3%

* 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 Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	3,029	100.0%	4,269	100.0%	7,298	100.0%
Men who have Sex with Men (MSM)	1,529	50.5%	1,606	37.6%	3,135	43.0%
Injection Drug Users (IDU)	126	4.2%	430	10.1%	556	7.6%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	42	1.4%	114	2.7%	156	2.1%
Heterosexual Exposure (HET)	1,321	43.6%	2,095	49.1%	3,416	46.8%
Other Exposures	11	0.4%	24	0.6%	35	0.5%
No Reported Exposure	2,126		1,462		3,588	
Total	5,155		5,731		10,886	

Male Exposure Category	Adult/Adolescent Living HIV Cases without AIDS		Adult/Adolescent Living HIV Cases with AIDS		Adult/Adolescent Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	2,076	100.0%	2,794	100.0%	4,870	100.0%
Men who have Sex with Men (MSM)	1,529	73.7%	1,606	57.5%	3,135	64.4%
Injection Drug Users (IDU)	82	3.9%	264	9.4%	346	7.1%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	42	2.0%	114	4.1%	156	3.2%
Heterosexual Exposure (HET)	420	20.2%	799	28.6%	1,219	25.0%
Other Exposures	3	0.1%	11	0.4%	14	0.3%
No Reported Exposure	1,142		832		1,974	
Total	3,218		3,626		6,844	

Female Exposure Category	Adult/Adolescent Living HIV Cases without AIDS		Adult/Adolescent Living HIV Cases with AIDS		Adult/Adolescent Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	953	100%	1,475	100%	2,428	100%
Injection Drug Users (IDU)	44	4.6%	166	11.3%	210	8.6%
Heterosexual Exposure (HET)	901	94.5%	1,296	87.9%	2,197	90.5%
Other Exposures	8	0.8%	13	0.9%	21	0.9%
No Reported Exposure*	984		630		1,614	
Total	1,937		2,105		4,042	

* Includes 26 HIV cases without AIDS and 38 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	542	100.0%	3,353	100.0%	729	100.0%
Men who have Sex with Men (MSM)	327	60.3%	2,035	60.7%	592	81.2%
Injection Drug Users (IDU)	23	4.2%	261	7.8%	46	6.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	14	2.6%	98	2.9%	32	4.4%
Heterosexual Exposure (HET)	177	32.7%	953	28.4%	52	7.1%
Other Exposures	1	0.2%	6	0.2%	7	1.0%
No Reported Exposure	175		1,464		249	
Total	717		4,817		978	

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	717	100.0%	4,817	100.0%	978	100.0%
Men who have Sex with Men (MSM)	327	60.3%	2,035	60.7%	592	81.2%
Injection Drug Users (IDU)	23	4.2%	261	7.8%	46	6.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	14	2.6%	98	2.9%	32	4.4%
Heterosexual Exposure (HET)	177	32.7%	953	28.4%	52	7.1%
Other Exposures	1	0.2%	6	0.2%	7	1.0%
No Reported Exposure	542		3,353		729	
Total	717		4,817		978	

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	167	100.0%	2,052	100.0%	122	100.0%
Injection Drug Users (IDU)	7	4.2%	162	7.9%	26	21.3%
Heterosexual Exposure (HET)	160	95.8%	1,872	91.2%	93	76.2%
Other Exposures	0	0.0%	18	0.9%	3	2.5%
No Reported Exposure*	74		1,358		127	
Total	241		3,410		249	

* Includes 4 Hispanic cases, 56 non-Hispanic black cases, and 2 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	7,298	3,965	54.3%	520	11.9%	15.0%	20.2%	52.9%
Men who have Sex with Men (MSM)	3,135	1,666	53.1%	532	10.5%	14.0%	20.4%	55.1%
Injection Drug Users (IDU)	556	243	43.7%	449	17.7%	15.6%	24.3%	42.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	156	69	44.2%	498	13.0%	14.5%	24.6%	47.8%
Heterosexual Exposure (HET)	3,416	1,970	57.7%	520	12.2%	15.8%	19.3%	52.6%
Other Exposures	35	17	48.6%	455	23.5%	17.6%	17.6%	41.2%
No Reported Exposure	3,588	1,772	49.4%	547	12.3%	13.5%	17.4%	56.8%
Total	10,886	5,737	52.7%	529	12.0%	14.6%	19.3%	54.1%

* Includes 64 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	7,298	3,956	54.2%	80.0%	13,065
Men who have Sex with Men (MSM)	3,135	1,647	52.5%	78.0%	15,849
Injection Drug Users (IDU)	556	244	43.9%	81.6%	16,520
Men who have Sex with Men and Inject Drugs (MSM/IDU)	156	70	44.9%	84.3%	2,118
Heterosexual Exposure (HET)	3,416	1,979	57.9%	81.3%	11,600
Other Exposures	35	16	45.7%	68.8%	8,390
No Reported Exposure	3,588	1,775	49.5%	79.8%	8,258
Total	10,886	5,731	52.6%	79.9%	10,000

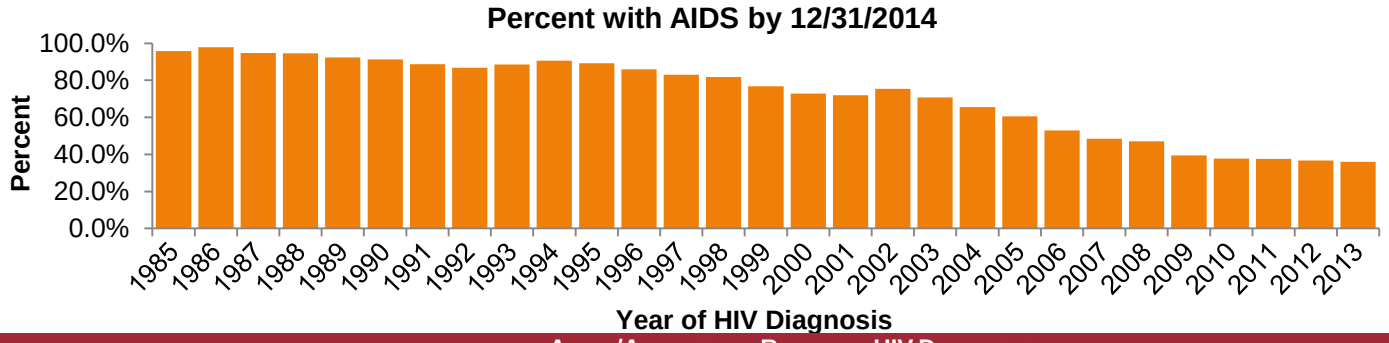
* Includes 64 cases with Presumed Female Heterosexual exposure

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

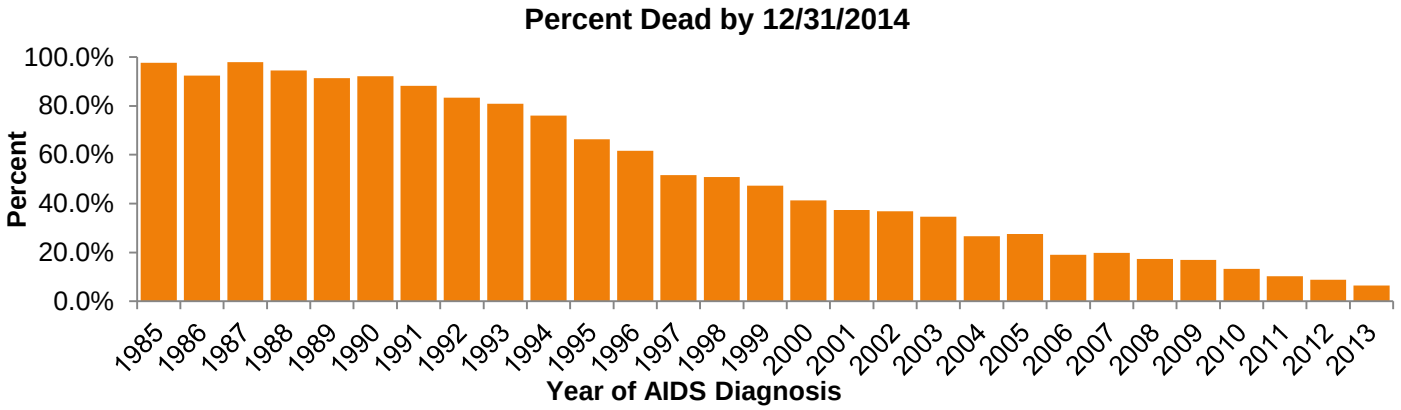
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2013 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2014 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis 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	109	104	95.4%	7.0	47.7%	47.7%	51.4%	63.3%
1985	216	207	95.8%	5.8	41.7%	43.1%	48.6%	74.1%
1986	281	275	97.9%	4.9	42.7%	43.8%	53.7%	85.8%
1987	382	362	94.8%	3.6	49.5%	50.3%	65.4%	86.4%
1988	429	406	94.6%	3.2	49.7%	53.6%	73.0%	87.9%
1989	525	485	92.4%	2.9	50.7%	53.3%	73.5%	86.9%
1990	538	491	91.3%	2.8	48.9%	56.5%	74.7%	86.4%
1991	609	541	88.8%	2.4	51.7%	59.6%	76.7%	83.9%
1992	540	469	86.9%	2.9	49.3%	55.9%	71.1%	79.3%
1993	457	405	88.6%	2.1	59.3%	65.4%	76.1%	83.6%
1994	436	395	90.6%	1.7	66.5%	72.5%	78.9%	86.9%
1995	454	405	89.2%	1.8	64.3%	69.8%	75.8%	85.5%
1996	430	370	86.0%	1.9	61.4%	64.2%	74.0%	82.1%
1997	447	371	83.0%	1.9	61.5%	64.9%	70.9%	79.2%
1998	431	353	81.9%	1.8	59.2%	62.9%	69.6%	78.4%
1999	475	365	76.8%	1.5	59.6%	62.9%	67.6%	73.7%
2000	473	345	72.9%	1.6	55.4%	58.1%	64.3%	70.2%
2001	488	351	71.9%	1.5	53.9%	55.9%	64.8%	69.7%
2002	528	398	75.4%	1.0	62.3%	65.9%	71.2%	73.7%
2003	590	417	70.7%	1.0	58.5%	60.7%	65.3%	70.2%
2004	649	425	65.5%	1.2	52.9%	55.3%	58.2%	65.2%
2005	659	399	60.5%	1.0	49.8%	51.9%	55.4%	--
2006	722	383	53.0%	1.1	41.6%	44.2%	48.5%	--
2007	892	432	48.4%	1.2	36.5%	37.9%	43.5%	--
2008	825	388	47.0%	1.0	36.0%	38.4%	44.1%	--
2009	713	281	39.4%	0.9	31.0%	32.3%	--	--
2010	727	274	37.7%	0.8	29.2%	32.2%	--	--
2011	630	236	37.5%	0.5	31.7%	34.8%	--	--
2012	597	219	36.7%	0.4	32.7%	35.3%	--	--
2013	620	223	36.0%	0.3	33.5%	--	--	--
Total	15,872	10,775	67.9%	2.0	47.5%	50.7%	58.3%	65.0%

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 12/31/2013 (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

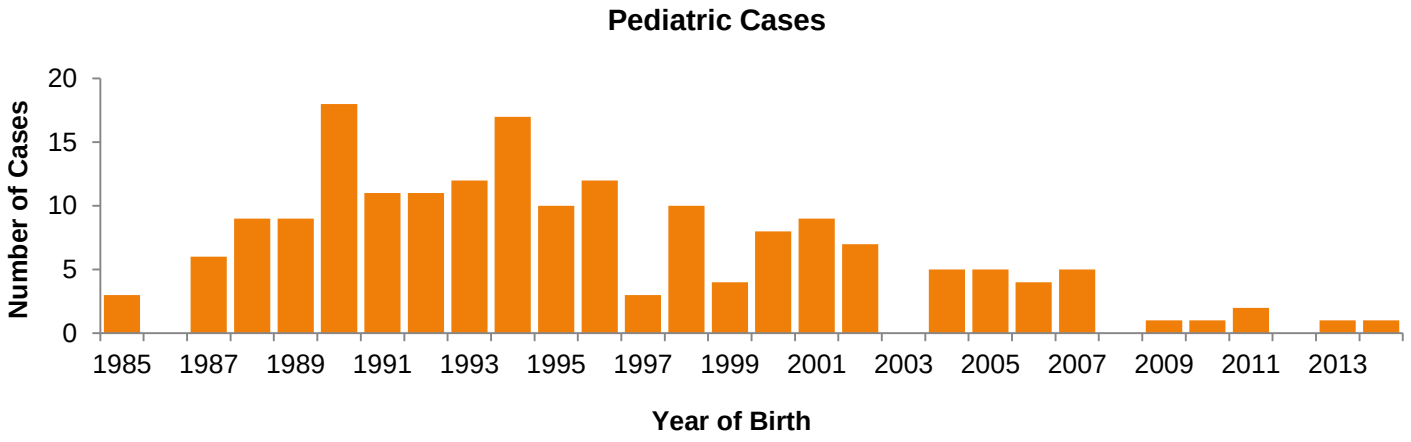


Year of HIV Diagnosis	Adult/Adolescent Reported AIDS Diagnoses							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	58	58	100.0%	0.9	32.8%	6.9%	3.4%	0.0%
1985	88	86	97.7%	1.4	40.9%	15.9%	11.4%	3.4%
1986	119	110	92.4%	1.6	51.3%	31.9%	12.6%	9.2%
1987	197	193	98.0%	2.0	52.3%	29.4%	10.7%	6.1%
1988	217	205	94.5%	1.9	61.3%	35.9%	13.4%	7.4%
1989	290	265	91.4%	2.7	68.3%	50.3%	21.0%	13.1%
1990	307	283	92.2%	2.9	65.1%	48.9%	22.5%	14.0%
1991	382	337	88.2%	2.4	67.8%	51.3%	19.6%	14.9%
1992	465	388	83.4%	2.8	74.2%	53.3%	26.7%	21.7%
1993	491	397	80.9%	3.1	72.5%	57.0%	33.4%	26.1%
1994	530	403	76.0%	3.2	75.3%	54.9%	40.4%	30.4%
1995	512	340	66.4%	4.1	74.0%	64.6%	54.3%	43.0%
1996	448	276	61.6%	4.8	81.0%	75.0%	64.5%	49.1%
1997	379	196	51.7%	4.1	81.3%	76.0%	65.2%	55.1%
1998	350	178	50.9%	4.8	85.4%	82.3%	71.4%	56.3%
1999	371	176	47.4%	4.1	84.9%	79.2%	69.5%	57.4%
2000	368	152	41.3%	5.4	91.8%	89.4%	79.1%	65.5%
2001	374	140	37.4%	3.9	87.2%	84.0%	75.4%	66.8%
2002	404	149	36.9%	3.4	86.1%	83.7%	73.8%	66.3%
2003	445	154	34.6%	3.2	87.2%	82.2%	75.1%	67.6%
2004	429	114	26.6%	3.3	89.5%	86.7%	81.8%	74.4%
2005	455	125	27.5%	2.6	87.9%	85.5%	78.5%	--
2006	420	80	19.0%	3.1	93.6%	91.2%	86.0%	--
2007	420	83	19.8%	2.0	90.0%	87.4%	83.3%	--
2008	369	64	17.3%	1.7	90.5%	88.3%	84.6%	--
2009	296	50	16.9%	1.4	90.5%	88.2%	--	--
2010	356	47	13.2%	1.3	93.3%	90.4%	--	--
2011	281	29	10.3%	1.0	94.0%	91.5%	--	--
2012	340	30	8.8%	0.7	93.5%	91.8%	--	--
2013	391	25	6.4%	0.3	94.6%	93.9%	--	--
Total	10,552	5,133	48.6%	3.1	81.6%	73.4%	61.9%	55.0%

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	21	2	1	0	
1985	3	5	2	1	6
1986	0	6	0	0	12
1987	6	5	4	0	17
1988	9	3	3	2	19
1989	9	6	5	2	23
1990	18	10	5	4	29
1991	11	11	8	3	38
1992	11	11	6	2	47
1993	12	9	8	4	52
1994	17	9	6	3	59
1995	10	9	8	6	61
1996	12	13	10	2	71
1997	3	4	5	0	75
1998	10	4	1	3	76
1999	4	13	6	0	88
2000	8	5	3	0	93
2001	9	5	3	2	96
2002	7	12	3	0	108
2003	0	3	1	4	107
2004	5	4	2	3	108
2005	5	8	3	2	114
2006	4	11	3	1	124
2007	5	19	3	1	142
2008	0	5	2	0	149
2009	1	2	0	0	151
2010	1	1	2	2	151
2011	2	5	3	0	154
2012	0	1	0	0	157
2013	1	1	1	1	157
2014	1	3	2	0	160
Total	205	205	109	48	

Table 24 – Pediatric 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
Calvert	2	1.3%
Charles	3	1.9%
Frederick	6	3.8%
Montgomery	43	26.9%
Prince George's	106	66.3%
Total	160	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 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.

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	78	48.8%
Female	82	51.3%
Total	160	100.0%

Race/Ethnicity	Pediatric Total Living HIV Cases	
	No.	% of Total
Hispanic	6	3.8%
Non-Hispanic	154	96.3%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	133	83.1%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	12	7.5%
Multiracial/Other	9	5.6%
Total	160	0.0%

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 12/31/2011.

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 childbearing age (13-49 years old) on December 31st of the specified year