

2012



# Maryland Annual HIV Epidemiological Profile

# **2012 Maryland Annual HIV Epidemiological Profile**

**Data reported through December 31, 2013**

**Center for HIV Surveillance, Epidemiology and Evaluation  
Infectious Disease Bureau  
Prevention and Health Promotion Administration  
Maryland Department of Health and Mental Hygiene  
<http://phpa.dhmh.maryland.gov/oideor/chse>  
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## Section I – Background Information

### HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in COMAR 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing DHMH Form 1140. Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the State Health Department by mailing DHMH Form 1140. Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing DHMH Form 1140. Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the State Health Department to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland 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/sitepages/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 410-767-5061.

### 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 14% 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. 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.

It is important to note that HIV surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of HIV disease 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.

## **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.

<b>Time Point</b>	<b>Biological Event</b>	<b>Medical Event</b>	<b>Surveillance Event</b>
<b>1</b>	HIV Infection		
<b>2</b>		HIV Diagnosis	
<b>3</b>			HIV Report
<b>4</b>	AIDS Conditions		
<b>5</b>		AIDS Diagnosis	
<b>6</b>			AIDS Report
<b>7</b>	Death		
<b>8</b>		Death Diagnosis	
<b>9</b>			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 cases. 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 2012 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2012-12/31/2012, as reported by name through 12/31/2013.

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 12/31/2012 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2012 as reported by name through 12/31/2013.

## **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 at least 2-3 times 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, 2013.

Live births are from the Maryland Department of Health and Mental Hygiene's Maryland Vital Statistics Annual Report 2011.

Perinatal exposures and transmissions are from the Maryland Department of Health and Mental Hygiene's Enhanced Perinatal Surveillance System, December 31, 2013.

Population data by sex, age, and race are from the July 1, 2012 U.S. Census Estimates and by country-of-birth from the 2012 American Community Survey (note the differences in total population due to different sources). 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).

### **On-line Mapping Tool**

Please visit the Maryland Department of Health and Mental Hygiene's website at <http://phpa.dhmmh.maryland.gov/oideor/chse> to create your own maps of adult/adolescent HIV rates by jurisdiction of residence, subset them by sex at birth and race/ethnicity, zoom in to the jurisdiction level, plot the locations of HIV testing sites, and print out your custom map.

### **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 1985-2012

This section discusses trends of new diagnoses, deaths, and living cases, measured by diagnoses reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2013. This section describes characteristics of the trends in new HIV diagnoses based on sex at birth, age group, race and ethnicity, and exposure category providing insight into where current prevention and early treatment strategies should be focused.

In Maryland, confidential name based HIV reporting started in 2007 with many HIV cases reported by recent diagnosis and not by earliest diagnosis, resulting in an artificial peak of reported HIV diagnoses during 2001-2008, as evident in figure 1.

A few important numbers:

- **1,471** HIV diagnoses (reported HIV cases with or without an AIDS diagnosis) in 2012
- **965** AIDS diagnoses (reported HIV cases with an AIDS diagnosis) in 2012
- **385** Deaths in AIDS cases in 2012
- **13,274** Living HIV Cases without AIDS on 12/31/2012
- **16,787** Living HIV Cases with AIDS on 12/31/2012
- **30,061** Living HIV Cases on 12/31/2012

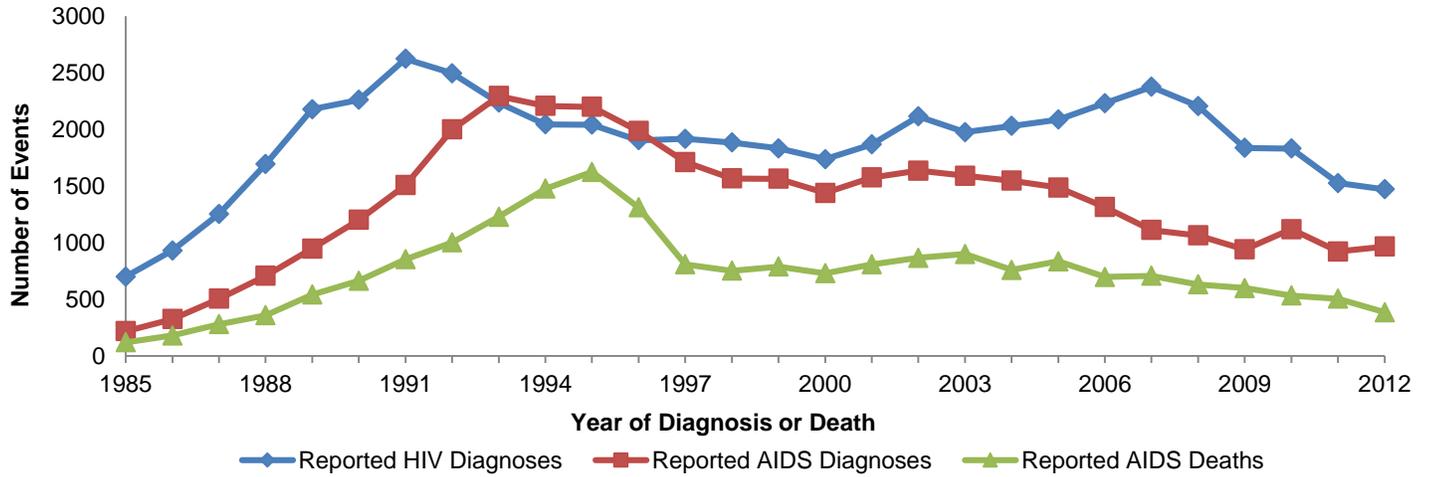
Highlights for Trends 1985-2012:

- The number of deaths due to AIDS follows an upward trend from 1985 to 1995 and then declines to 385 in 2012.
- There was an increase in the total number of living HIV cases with AIDS from 171 in 1985 to 16,787 in 2012.
- Reported HIV diagnoses in males decreased from 85% in 1985 to 63% in 2000, held mostly stable at around 62% from 2001 to 2007, but then gradually increased to 73% in 2012.
- Diagnoses are greatest in non-Hispanic blacks at 76% in 2012.
- Diagnoses are lowest in Hispanics at approximately 6% and 13% in non-Hispanic whites.
- HIV diagnoses are greatest in the age group of 20-29 years at 31%, followed by 40-49 year olds at 22%, 30-39 year olds at 21%, and 50-59 year olds at 14%.
- There has been a decline from 29% in 1985 to 7% in 2012 of those being exposed via Injection Drug Use (IDU).
- Those being exposed through Men who have Sex with Men (MSM) has increased from approximately 10% in 1985 to 56% in 2012.

**Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2012, Reported through 12/31/2013**

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 Diagnosis) 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 2012 as Reported through 12/31/2013

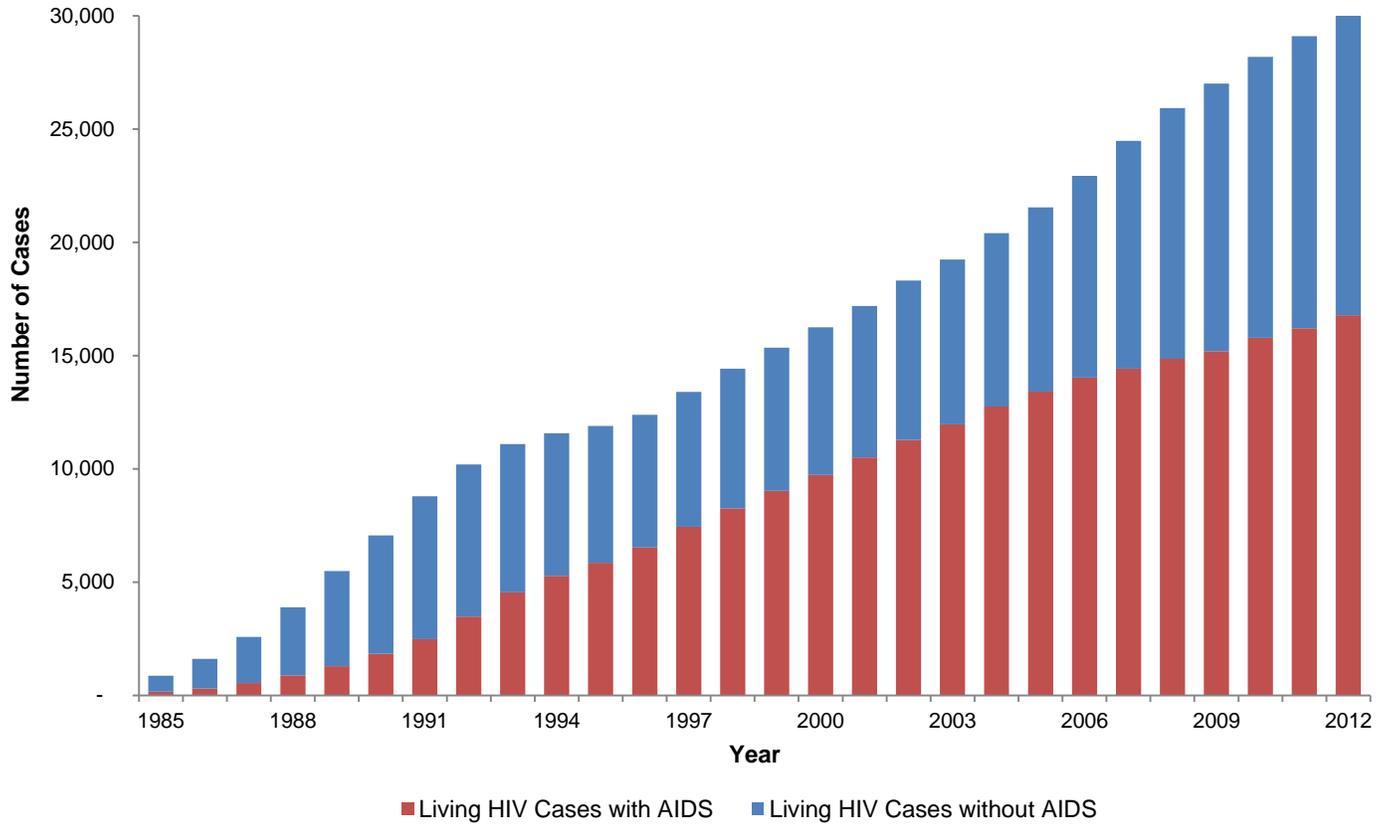
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008



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	356	145	72	1999	1,832	1,563	788
1985	700	218	120	2000	1,736	1,438	729
1986	930	324	180	2001	1,866	1,574	808
1987	1,253	505	279	2002	2,113	1,635	865
1988	1,693	707	358	2003	1,975	1,590	899
1989	2,177	947	541	2004	2,030	1,546	759
1990	2,260	1,201	663	2005	2,085	1,486	834
1991	2,622	1,507	852	2006	2,230	1,313	697
1992	2,494	1,998	1,001	2007	2,375	1,111	706
1993	2,235	2,294	1,228	2008	2,205	1,063	631
1994	2,044	2,207	1,476	2009	1,835	940	598
1995	2,041	2,198	1,624	2010	1,830	1,118	532
1996	1,903	1,984	1,310	2011	1,525	921	505
1997	1,915	1,710	807	2012	1,471	965	385
1998	1,883	1,566	751	<b>TOTAL</b>	<b>53,614</b>	<b>37,774</b>	<b>20,998</b>

**Figure 2 – Trends in Living HIV Cases, 1985-2012, Reported through 12/31/2013**

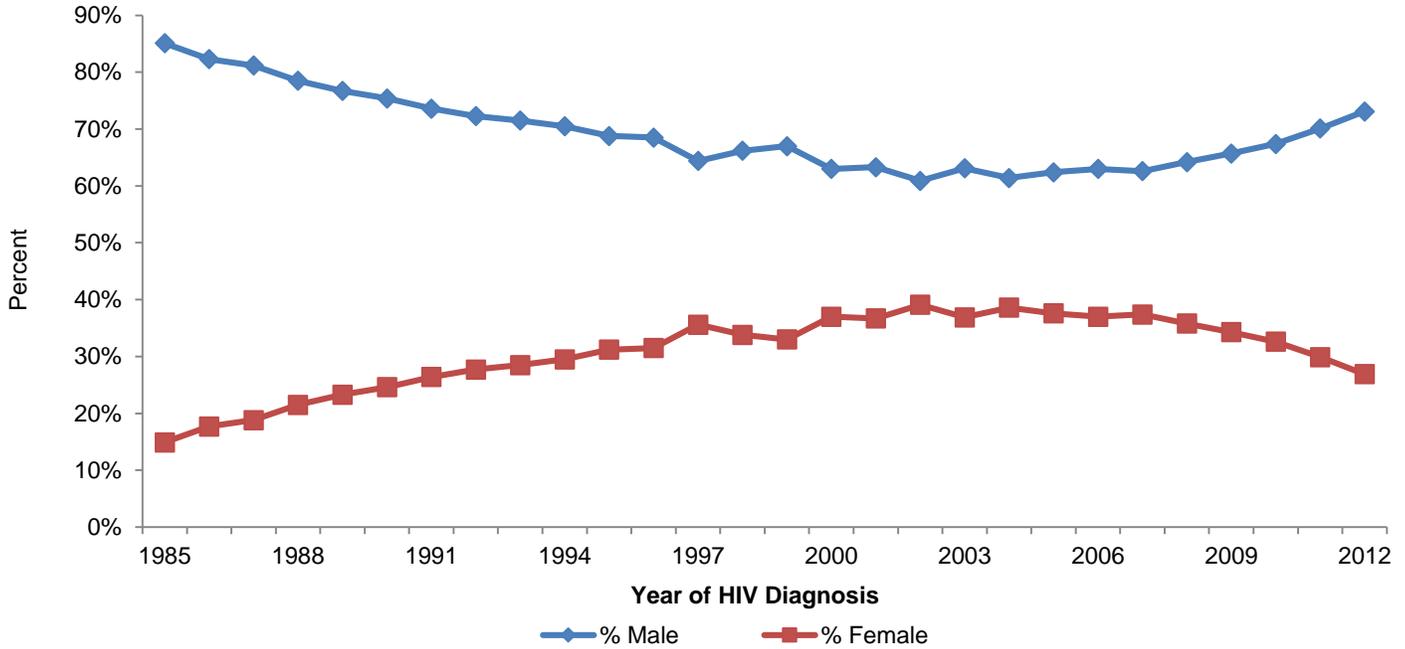
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31<sup>st</sup> of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2012, as Reported through 12/31/2013



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	696	171	867	1999	6,328	9,031	15,359
1986	1,297	315	1,612	2000	6,517	9,740	16,257
1987	2,036	542	2,578	2001	6,681	10,507	17,188
1988	3,006	891	3,897	2002	7,034	11,277	18,311
1989	4,198	1,297	5,495	2003	7,272	11,968	19,240
1990	5,228	1,835	7,063	2004	7,659	12,755	20,414
1991	6,300	2,490	8,790	2005	8,145	13,409	21,554
1992	6,710	3,487	10,197	2006	8,908	14,026	22,934
1993	6,541	4,553	11,094	2007	10,052	14,431	24,483
1994	6,294	5,286	11,580	2008	11,068	14,863	25,931
1995	6,033	5,862	11,895	2009	11,808	15,205	27,013
1996	5,857	6,538	12,395	2010	12,394	15,791	28,185
1997	5,959	7,441	13,400	2011	12,894	16,207	29,101
1998	6,174	8,256	14,430	2012	13,274	16,787	30,061

**Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2012, Reported through 12/31/2013**

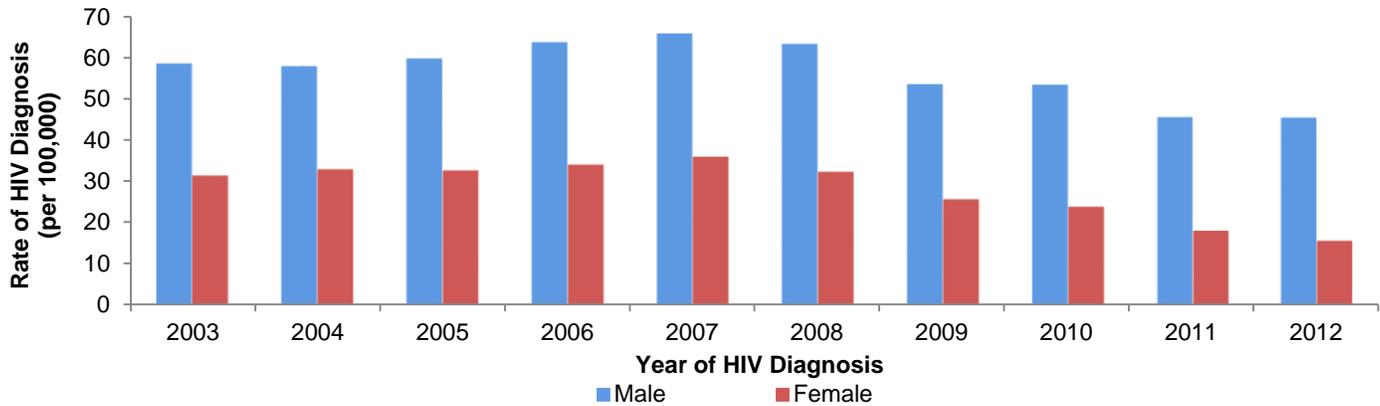
Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2012, as Reported through 12/31/2013



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	347	87.6%	12.4%	1999	1,803	67.0%	33.0%
1985	686	85.1%	14.9%	2000	1,721	63.0%	37.0%
1986	915	82.3%	17.7%	2001	1,852	63.3%	36.7%
1987	1,232	81.2%	18.8%	2002	2,095	60.9%	39.1%
1988	1,663	78.5%	21.5%	2003	1,969	63.1%	36.9%
1989	2,143	76.7%	23.3%	2004	2,020	61.4%	38.6%
1990	2,207	75.4%	24.6%	2005	2,075	62.4%	37.6%
1991	2,569	73.6%	26.4%	2006	2,214	63.0%	37.0%
1992	2,434	72.3%	27.7%	2007	2,318	62.6%	37.4%
1993	2,180	71.5%	28.5%	2008	2,190	64.2%	35.8%
1994	2,004	70.5%	29.5%	2009	1,826	65.7%	34.3%
1995	2,011	68.8%	31.2%	2010	1,826	67.4%	32.6%
1996	1,868	68.5%	31.5%	2011	1,516	70.1%	29.9%
1997	1,897	64.4%	35.6%	2012	1,466	73.1%	26.9%
1998	1,863	66.2%	33.8%	TOTAL	52,910	68.7%	31.3%

### Figure 3A – Trends in Rates of Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 2003-2012, Reported through 12/31/2013

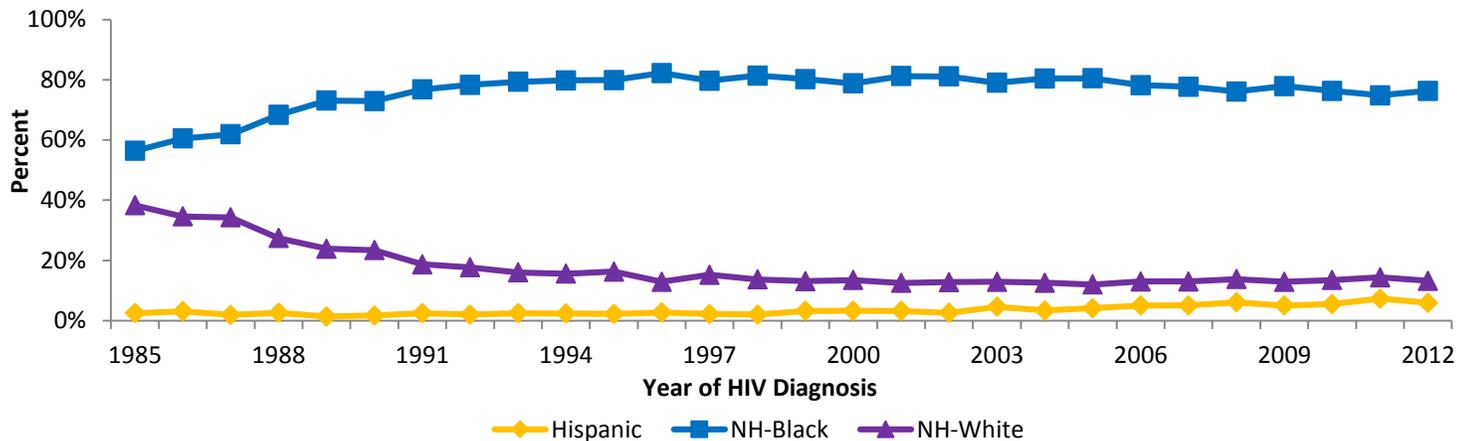
Rate of HIV Diagnosis of Adult/Adolescent Reported HIV Cases by Sex at Birth, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2003 through 2012, as Reported through 12/31/2013



YEAR OF HIV DIAGNOSIS	Adult/Adolescent Reported HIV Diagnoses			
	No.	Sex at Birth		
		Male	Female	
2003	1,969	Population	2,119,899	2,326,969
		Cases	1,242	727
		Rate	58.6	31.2
2004	2,020	Population	2,142,792	2,382,658
		Cases	1,240	780
		Rate	57.9	32.7
2005	2,075	Population	2,167,912	2,404,174
		Cases	1,295	780
		Rate	59.7	32.5
2006	2,214	Population	2,188,433	2,419,890
		Cases	1,395	819
		Rate	63.7	33.9
2007	2,318	Population	2,204,771	2,430,739
		Cases	1,451	867
		Rate	65.8	35.7
2008	2,190	Population	2,219,919	2,442,191
		Cases	1,406	784
		Rate	63.3	32.1
2009	1,826	Population	2,238,829	2,460,976
		Cases	1,200	626
		Rate	53.6	25.4
2010	1,826	Population	2,303,746	2,512,469
		Cases	1,231	595
		Rate	53.4	23.7
2011	1,516	Population	2,331,513	2,537,457
		Cases	1,063	453
		Rate	45.6	17.9
2012	1,466	Population	2,360,279	2,563,656
		Cases	1,072	394
		Rate	45.4	15.4

**Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2012, Reported through 12/31/2013**

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 2012, as Reported through 12/31/2013

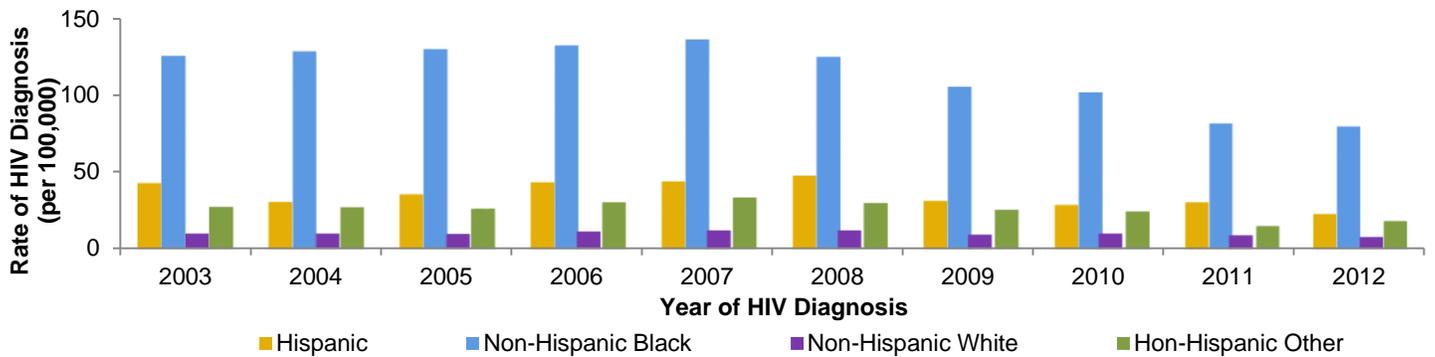


Non-Hispanic Other race not shown

YEAR OF HIV DIAGNOSIS	Adult/Adolescent Reported HIV Diagnoses				
	No.	% Hispanic	% Non-Hispanic Black, only	% Non-Hispanic White, only	% Non-Hispanic Other Race
<1985	347	2.0%	56.2%	40.3%	1.4%
1985	686	2.5%	56.4%	38.3%	2.8%
1986	915	3.1%	60.5%	34.6%	1.7%
1987	1,232	1.9%	61.9%	34.3%	1.9%
1988	1,663	2.6%	68.3%	27.4%	1.7%
1989	2,143	1.4%	73.1%	23.9%	1.6%
1990	2,207	1.7%	72.9%	23.4%	2.0%
1991	2,569	2.5%	76.8%	18.7%	2.0%
1992	2,434	2.0%	78.3%	17.7%	2.1%
1993	2,180	2.5%	79.3%	16.0%	2.2%
1994	2,004	2.4%	79.8%	15.6%	2.2%
1995	2,011	2.2%	79.9%	16.3%	1.6%
1996	1,868	2.7%	82.2%	12.9%	2.2%
1997	1,897	2.2%	79.7%	15.2%	3.0%
1998	1,863	2.0%	81.4%	13.7%	2.8%
1999	1,803	3.2%	80.2%	13.1%	3.4%
2000	1,721	3.3%	78.8%	13.5%	4.4%
2001	1,852	3.2%	81.2%	12.5%	3.2%
2002	2,095	2.6%	81.1%	12.8%	3.5%
2003	1,969	4.6%	79.0%	12.9%	3.5%
2004	2,020	3.4%	80.4%	12.6%	3.5%
2005	2,075	4.1%	80.5%	12.0%	3.4%
2006	2,214	5.0%	78.2%	13.0%	3.8%
2007	2,318	5.1%	77.7%	13.0%	4.1%
2008	2,190	6.1%	76.1%	13.8%	4.0%
2009	1,826	5.0%	77.9%	12.9%	4.2%
2010	1,826	5.5%	76.3%	13.5%	4.7%
2011	1,516	7.3%	74.8%	14.4%	3.5%
2012	1,466	5.9%	76.3%	13.2%	4.6%
<b>TOTAL</b>	<b>52,910</b>	<b>3.4%</b>	<b>76.9%</b>	<b>16.7%</b>	<b>3.0%</b>

## Figure 4A – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 2003-2012, Reported through 12/31/2013

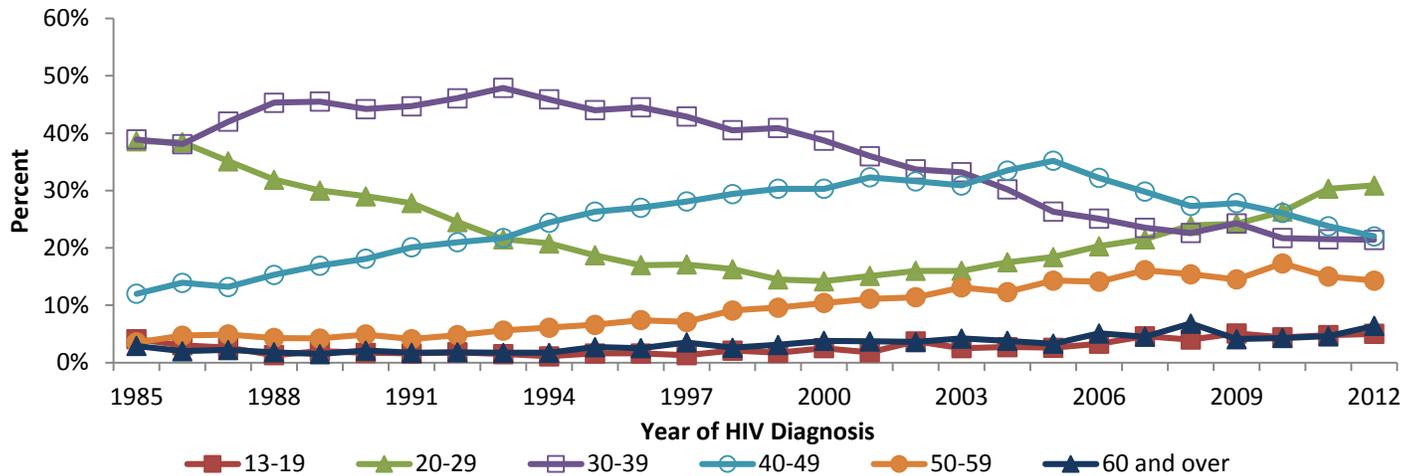
Rate of HIV Diagnosis of Adult/Adolescent Reported HIV Cases by Race/Ethnicity, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2003 through 2012, as Reported through 12/31/2013.



YEAR OF HIV DIAGNOSIS	Adult/Adolescent Reported HIV Diagnoses					
	No.	Race/Ethnicity				
		Hispanic	Non-Hispanic Black	Non-Hispanic White	Non-Hispanic Other	
2003	1,969	Population	214,561	1,241,888	2,796,557	259,495
		Cases	91	1,556	254	69
		Rate	42.2	125.3	9.1	26.6
2004	2,020	Population	228,529	1,265,311	2,796,522	268,357
		Cases	69	1,624	255	71
		Rate	30.1	128.4	9.1	26.3
2005	2,075	Population	243,965	1,288,345	2,794,617	277,726
		Cases	85	1,670	249	71
		Rate	34.9	129.7	8.9	25.4
2006	2,214	Population	259,717	1,309,033	2,785,642	285,733
		Cases	111	1,731	288	84
		Rate	42.6	132.3	10.3	29.4
2007	2,318	Population	273,408	1,323,746	2,775,780	293,495
		Cases	118	1,801	301	95
		Rate	43.2	136.1	10.9	32.4
2008	2,190	Population	285,931	1,336,116	2,769,180	301,040
		Cases	134	1,667	302	88
		Rate	46.7	124.7	10.9	29.1
2009	1,826	Population	298,277	1,353,474	2,767,918	309,931
		Cases	91	1,422	236	77
		Rate	30.6	105.1	8.5	24.7
2010	1,826	Population	357,468	1,371,064	2,723,736	363,947
		Cases	100	1,393	247	10
		Rate	28.1	101.6	9.1	23.6
2011	1,516	Population	371,383	1,393,686	2,737,345	366,556
		Cases	111	1,134	218	53
		Rate	29.8	81.4	8.0	14.5
2012	1,466	Population	387,644	1,410,623	2,743,271	382,397
		Cases	86	1,119	194	67
		Rate	22.3	79.3	7.1	17.6

**Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2012, Reported through 12/31/2013**

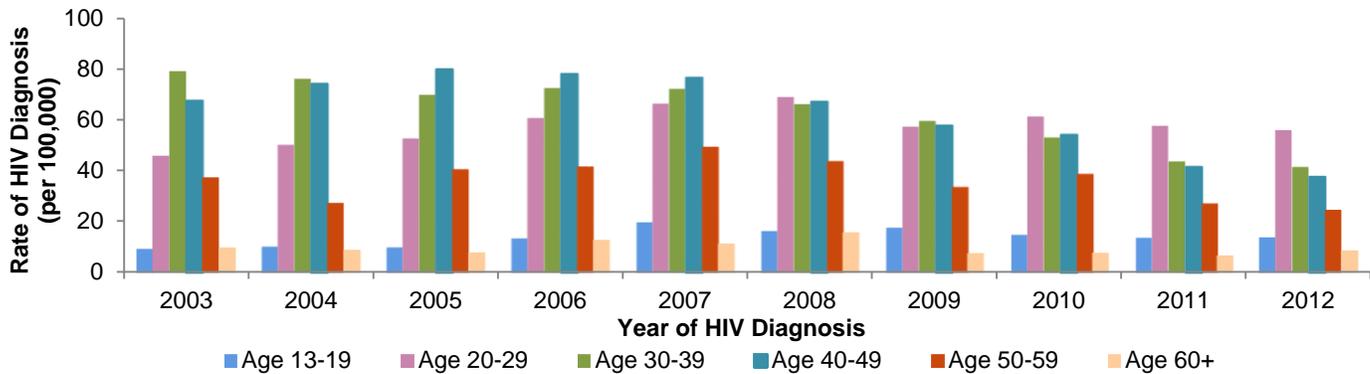
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2012, as Reported through 12/31/2013



YEAR OF HIV DIAGNOSIS	Adult/Adolescent Reported HIV Diagnoses						
	No.	% Age 13-19	% Age 20-29	% Age 30-39	% Age 40-49	% Age 50-59	% Age 60+
<1985	347	6.9%	40.1%	31.7%	15.0%	5.2%	1.2%
1985	686	4.1%	38.6%	38.9%	12.0%	3.5%	2.9%
1986	915	3.0%	38.4%	38.1%	13.9%	4.7%	2.0%
1987	1,232	2.6%	35.1%	42.0%	13.2%	4.9%	2.2%
1988	1,663	1.3%	31.9%	45.3%	15.3%	4.3%	1.8%
1989	2,143	2.0%	30.0%	45.5%	16.9%	4.2%	1.5%
1990	2,207	1.7%	29.0%	44.2%	18.1%	4.9%	2.1%
1991	2,569	1.6%	27.8%	44.7%	20.1%	4.1%	1.7%
1992	2,434	1.8%	24.5%	46.1%	21.0%	4.8%	1.8%
1993	2,180	1.5%	21.5%	47.9%	21.7%	5.6%	1.7%
1994	2,004	1.1%	20.8%	45.9%	24.4%	6.1%	1.7%
1995	2,011	1.6%	18.7%	44.0%	26.3%	6.6%	2.7%
1996	1,868	1.6%	17.0%	44.5%	27.0%	7.4%	2.5%
1997	1,897	1.3%	17.1%	42.9%	28.1%	7.1%	3.5%
1998	1,863	2.1%	16.3%	40.5%	29.4%	9.1%	2.6%
1999	1,803	1.7%	14.5%	40.9%	30.3%	9.6%	3.1%
2000	1,721	2.5%	14.2%	38.7%	30.3%	10.4%	3.8%
2001	1,852	1.8%	15.1%	36.0%	32.3%	11.1%	3.7%
2002	2,095	3.7%	16.0%	33.7%	31.6%	11.4%	3.6%
2003	1,969	2.5%	16.0%	33.2%	30.9%	13.1%	4.2%
2004	2,020	2.7%	17.5%	30.2%	33.5%	12.3%	3.8%
2005	2,075	2.6%	18.4%	26.3%	35.2%	14.3%	3.3%
2006	2,214	3.3%	20.3%	25.1%	32.2%	14.1%	5.1%
2007	2,318	4.6%	21.5%	23.5%	29.8%	16.1%	4.5%
2008	2,190	4.0%	23.9%	22.6%	27.3%	15.4%	6.8%
2009	1,826	5.1%	24.2%	24.3%	27.8%	14.5%	4.1%
2010	1,826	4.4%	26.3%	21.7%	26.1%	17.3%	4.3%
2011	1,516	4.8%	30.3%	21.5%	23.8%	15.0%	4.6%
2012	1,466	5.0%	30.9%	21.4%	22.0%	14.3%	6.4%
<b>TOTAL</b>	<b>52,910</b>	<b>2.7%</b>	<b>22.7%</b>	<b>36.1%</b>	<b>25.6%</b>	<b>9.6%</b>	<b>3.3%</b>

**Figure 5A – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 2003-2012, Reported through 12/31/2013**

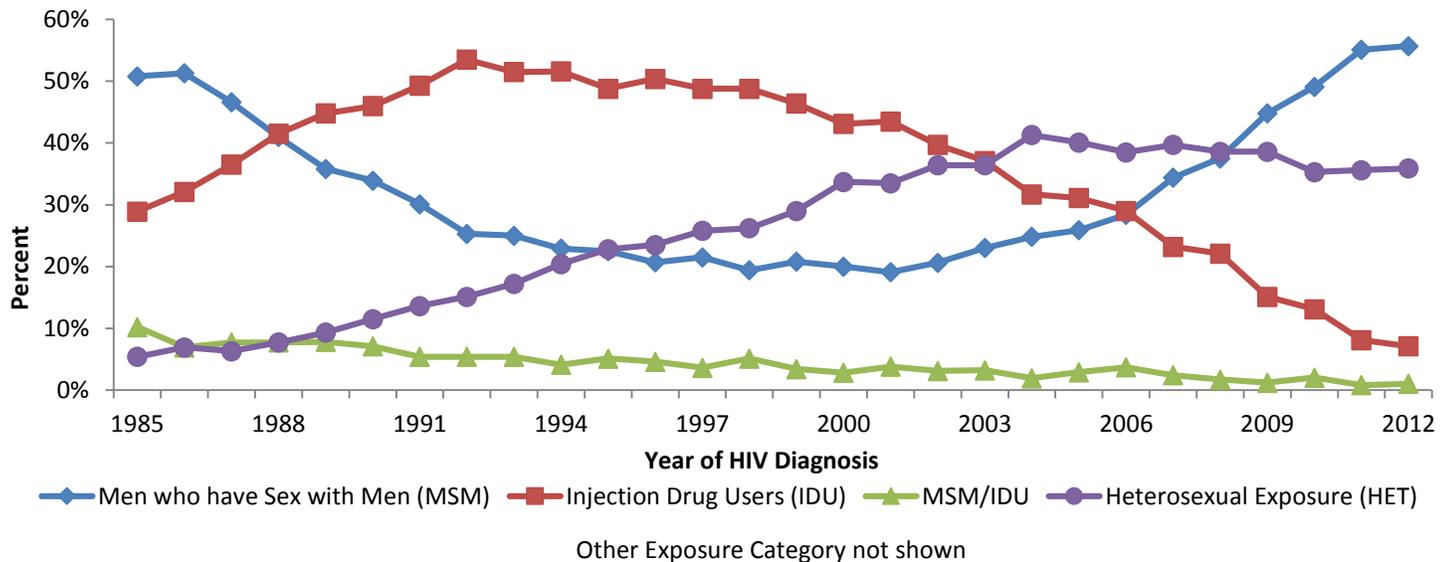
Rate of HIV Diagnosis of Adult/Adolescent Reported HIV Cases by Age at HIV Diagnosis, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2003 through 2012, as Reported through 12/31/2013



YEAR OF HIV DIAGNOSIS	Adult/Adolescent Reported HIV Diagnoses							
	No.	Race/Ethnicity						
		Age 13-19	Age 20-29	Age 30-39	Age 40-49	Age 50-59	Age 60+	
2003	1,969	Population	543,858	690,328	829,278	900,233	692,223	856,580
		Cases	49	315	654	608	258	83
		Rate	9.1	45.6	78.8	67.6	37.3	9.7
2004	2,020	Population	550,608	707,399	803,292	911,397	911,397	873,427
		Cases	55	354	610	677	248	77
		Rate	9.9	50.0	75.9	74.2	27.3	8.8
2005	2,075	Population	557,755	726,703	782,949	914,789	733,711	888,745
		Cases	54	382	546	730	297	68
		Rate	9.7	52.5	69.7	79.8	40.4	7.7
2006	2,214	Population	559,737	743,598	768,314	912,205	754,441	901,830
		Cases	73	449	556	713	312	113
		Rate	13.1	60.4	72.3	78.2	41.4	12.5
2007	2,318	Population	558,452	754,712	756,083	902,196	760,351	934,634
		Cases	107	498	545	691	373	104
		Rate	19.1	66.0	72.0	76.6	49.1	11.2
2008	2,190	Population	553,855	763,450	748,586	889,690	773,153	963,533
		Cases	88	523	495	598	337	149
		Rate	15.8	68.6	66.1	67.2	43.6	15.5
2009	1,826	Population	547,568	775,650	744,736	877,993	789,380	994,273
		Cases	93	442	444	508	265	75
		Rate	17.0	57.0	59.6	57.8	33.5	7.5
2010	1,826	Population	559,289	787,246	745,903	879,748	818,608	1,025,421
		Cases	80	480	396	477	316	79
		Rate	14.4	61.0	53.1	54.2	38.6	7.7
2011	1,516	Population	549,363	800,985	746,128	868,133	838,152	1,066,209
		Cases	73	459	326	361	227	70
		Rate	13.2	57.3	43.7	41.6	27.1	6.5
2012	1,466	Population	547,321	811,949	756,067	856,920	853,272	1,098,406
		Cases	73	453	314	323	210	94
		Rate	13.4	55.8	41.5	37.6	24.6	8.5

## Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2012, Reported through 12/31/2013

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 2012, as Reported through 12/31/2013

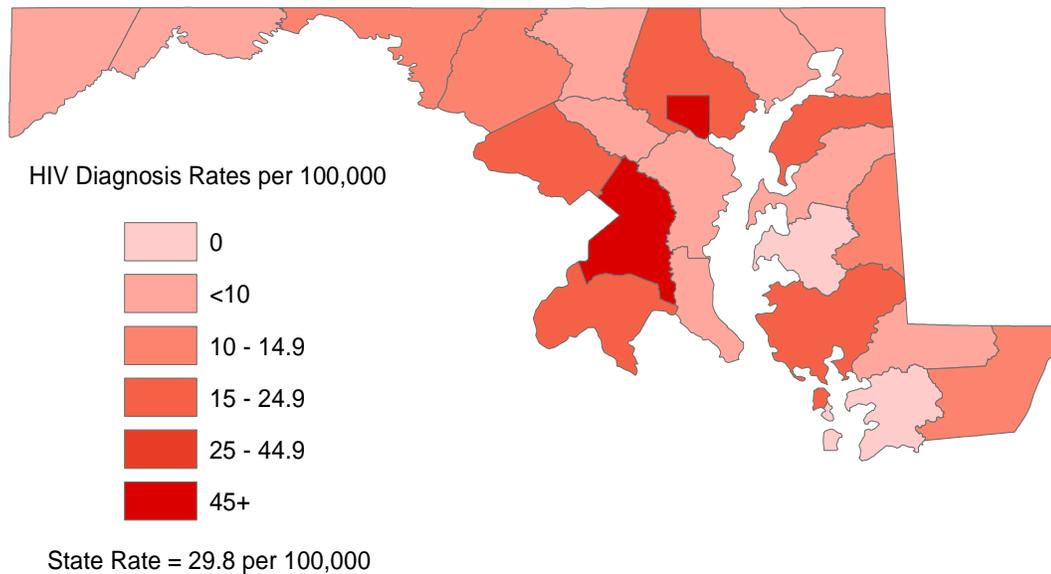


YEAR OF HIV DIAGNOSIS	Adult/Adolescent Reported HIV Diagnoses						
	No.	With Exposure Category					% Other Exposure
		No.	% MSM	% IDU	% MSM/IDU	% HET	
<1985	347	327	59.0%	24.8%	7.3%	4.9%	4.0%
1985	686	650	50.8%	28.9%	10.2%	5.4%	4.8%
1986	915	885	51.3%	32.1%	6.9%	6.9%	2.8%
1987	1,232	1,183	46.6%	36.5%	7.7%	6.3%	3.0%
1988	1,663	1,594	41.0%	41.5%	7.7%	7.7%	2.1%
1989	2,143	2,052	35.8%	44.8%	7.8%	9.3%	2.2%
1990	2,207	2,103	33.9%	46.0%	7.1%	11.5%	1.5%
1991	2,569	2,418	30.1%	49.3%	5.4%	13.6%	1.5%
1992	2,434	2,265	25.3%	53.5%	5.4%	15.1%	0.8%
1993	2,180	2,056	25.0%	51.5%	5.4%	17.2%	1.0%
1994	2,004	1,883	22.9%	51.6%	4.1%	20.4%	1.0%
1995	2,011	1,859	22.5%	48.8%	5.1%	22.8%	0.8%
1996	1,868	1,708	20.7%	50.4%	4.6%	23.5%	0.8%
1997	1,897	1,692	21.5%	48.8%	3.6%	25.8%	0.4%
1998	1,863	1,643	19.4%	48.8%	5.1%	26.2%	0.5%
1999	1,803	1,563	20.8%	46.4%	3.4%	29.0%	0.4%
2000	1,721	1,476	20.0%	43.1%	2.8%	33.7%	0.3%
2001	1,852	1,583	19.1%	43.5%	3.8%	33.5%	0.1%
2002	2,095	1,745	20.6%	39.7%	3.1%	36.4%	0.2%
2003	1,969	1,690	23.0%	37.1%	3.2%	36.4%	0.3%
2004	2,020	1,651	24.8%	31.7%	1.9%	41.3%	0.3%
2005	2,075	1,578	25.9%	31.1%	2.9%	40.1%	0.1%
2006	2,214	1,536	28.4%	29.0%	3.7%	38.5%	0.4%
2007	2,318	1,463	34.4%	23.2%	2.4%	39.7%	0.3%
2008	2,190	1,256	37.5%	22.1%	1.7%	38.6%	0.2%
2009	1,826	911	44.8%	15.1%	1.2%	38.6%	0.2%
2010	1,826	894	49.1%	13.1%	2.0%	35.3%	0.4%
2011	1,516	738	55.1%	8.1%	0.8%	35.6%	0.3%
2012	1,466	921	55.5%	7.1%	1.0%	35.8%	0.7%
<b>TOTAL</b>	<b>52,910</b>	<b>43,323</b>	<b>30.0%</b>	<b>39.7%</b>	<b>4.5%</b>	<b>25.0%</b>	<b>0.9%</b>

## Section III – Adult/Adolescent Cases by Jurisdiction

This section discusses trends of adult/adolescent cases by jurisdiction measured by diagnoses reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2013. This section also displays CD4 results, the percent linked to care, the percent late diagnosis, viral load test results, and the percent of viral load suppressed providing insight into where current prevention and early treatment strategies should be focused.

### Maryland Adult/Adolescent HIV Diagnoses, Rates by Jurisdiction, 2012



#### A Few Important Numbers:

- The rate of new HIV diagnoses among adults/adolescents in Maryland is **29.8 per 100,000**.

Jurisdictions with the highest rates of new HIV diagnoses among adults/adolescents in Maryland include:

- Baltimore City: 89.9 per 100,000
- Prince George's: 53.8 per 100,000
- Montgomery: 23.2 per 100,000
- Baltimore: 22.9 per 100,000

- The rate of new AIDS diagnoses among adults/adolescents in Maryland is **19.4 per 100,000**.

Jurisdictions with the highest rates of new AIDS diagnoses among adult/adolescents in Maryland include:

- Baltimore City: 72.3 per 100,000
- Prince George's: 29.7 per 100,000
- Dorchester: 25.4 per 100,000

**Table 1 – Adult/Adolescent HIV Diagnoses during 2012, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 12/31/2013**

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses									
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late HIV Diagnosis	% Late HIV Diagnosis	First CD4 Test Result		
									No. with Test	% with Test	Median Count
Allegany	64,786	4	0.3%	6.2	***	***	***	***	***	***	***
Anne Arundel	460,107	45	3.1%	9.8	34	75.6%	9	20.0%	36	80.0%	420
Baltimore City	521,466	469	32.0%	89.9	347	74.0%	145	30.9%	376	80.2%	354
Baltimore	690,522	158	10.8%	22.9	121	76.6%	46	29.1%	135	85.4%	417
Calvert	74,654	7	0.5%	9.4	6	85.7%	***	***	7	100.0%	568
Caroline	27,021	4	0.3%	14.8	***	***	***	***	***	***	***
Carroll	141,013	3	0.2%	2.1	***	***	***	***	***	***	***
Cecil	84,566	5	0.3%	5.9	5	100.0%	***	***	5	100.0%	483
Charles	124,626	26	1.8%	20.9	14	53.8%	7	26.9%	20	76.9%	362
Dorchester	27,518	5	0.3%	18.2	***	***	***	***	***	***	***
Frederick	198,694	24	1.6%	12.1	22	91.7%	8	33.3%	23	95.8%	393
Garrett	25,615	1	0.1%	3.9	***	***	***	***	***	***	***
Harford	208,064	20	1.4%	9.6	15	75.0%	11	55.0%	18	90.0%	267
Howard	248,000	24	1.6%	9.7	20	83.3%	11	45.8%	21	87.5%	241
Kent	17,692	3	0.2%	17.0	***	***	***	***	***	***	***
Montgomery	834,814	194	13.2%	23.2	144	74.2%	75	38.7%	164	84.5%	308
Prince George's	733,568	395	26.9%	53.8	266	67.3%	131	33.2%	303	76.7%	321
Queen Anne's	40,871	2	0.1%	4.9	***	***	***	***	***	***	***
Saint Mary's	89,056	11	0.8%	12.4	7	63.6%	***	***	8	72.7%	339
Somerset	23,041	0	0.0%	0.0	--	--	--	--	--	--	--
Talbot	32,981	0	0.0%	0.0	--	--	--	--	--	--	--
Washington	125,490	16	1.1%	12.7	14	87.5%	8	50.0%	15	93.8%	255
Wicomico	84,554	8	0.5%	9.5	7	87.5%	***	***	8	100.0%	296
Worcester	45,218	5	0.3%	11.1	***	***	***	***	5	100.0%	245
Corrections	--	37	2.5%	--	28	75.7%	***	***	31	83.8%	468
TOTAL	4,923,935	1,466	100.0%	29.8	1,073	73.2%	475	32.4%	1,194	81.4%	354

\*\*\* 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 7/1/2012.

**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 2012, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 12/31/2013**

JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	Population Age 13+	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Allegany	64,786	0	0.0%	0.0	--	0.0%
Anne Arundel	460,107	31	3.2%	6.7	3.7	45.2%
Baltimore City	521,466	377	39.4%	72.3	4.6	38.7%
Baltimore	690,522	99	10.3%	14.3	4.6	42.4%
Calvert	74,654	5	0.5%	6.7	0.7	80.0%
Caroline	27,021	3	0.3%	11.1	***	***
Carroll	141,013	2	0.2%	1.4	***	***
Cecil	84,566	3	0.3%	3.5	***	***
Charles	124,626	15	1.6%	12.0	1.6	53.3%
Dorchester	27,518	7	0.7%	25.4	2.8	57.1%
Frederick	198,694	7	0.7%	3.5	1.7	57.1%
Garrett	25,615	0	0.0%	0.0	--	0.0%
Harford	208,064	16	1.7%	7.7	3.3	62.5%
Howard	248,000	21	2.2%	8.5	2.6	42.9%
Kent	17,692	1	0.1%	5.7	***	***
Montgomery	834,814	111	11.6%	13.3	2	72.1%
Prince George's	733,568	218	22.8%	29.7	2.4	61.5%
Queen Anne's	40,871	0	0.0%	0.0	--	0.0%
Saint Mary's	89,056	6	0.6%	6.7	2.3	50.0%
Somerset	23,041	0	0.0%	0.0	--	0.0%
Talbot	32,981	1	0.1%	3.0	***	***
Washington	125,490	6	0.6%	4.8	0	100.0%
Wicomico	84,554	6	0.6%	7.1	4.2	50.0%
Worcester	45,218	6	0.6%	13.3	1	83.3%
Corrections	--	16	1.7%	--	5.1	31.3%
TOTAL	4,923,935	957	100.0%	19.4	3.5	50.4%

\*\*\* 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 age 13 years or older, estimate for 7/1/2012.

**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 12/31/2012, by Jurisdiction, Reported through 12/31/2013**

JURISDICTION OF RESIDENCE AT DIAGNOSIS	Population Age 13+	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Allegany	64,786	38	0.3%	58.7	35	0.2%	54.0	73	0.2%	112.7	887
Anne Arundel	460,107	425	3.3%	92.4	596	3.6%	129.5	1,021	3.5%	221.9	450
Baltimore City	521,466	5,443	41.9%	1,043.8	7,811	47.2%	1,497.9	13,254	44.8%	2,541.7	39
Baltimore	690,522	1,090	8.4%	157.9	1,279	7.7%	185.2	2,369	8.0%	343.1	291
Calvert	74,654	49	0.4%	65.6	42	0.3%	56.3	91	0.3%	121.9	820
Caroline	27,021	27	0.2%	99.9	30	0.2%	111.0	57	0.2%	211.0	474
Carroll	141,013	52	0.4%	36.9	55	0.3%	39.0	107	0.4%	75.9	1,317
Cecil	84,566	47	0.4%	55.6	69	0.4%	81.6	116	0.4%	137.2	729
Charles	124,626	155	1.2%	124.4	139	0.8%	111.5	294	1.0%	235.9	423
Dorchester	27,518	36	0.3%	130.8	77	0.5%	279.8	113	0.4%	410.6	243
Frederick	198,694	143	1.1%	72.0	155	0.9%	78.0	298	1.0%	150.0	666
Garrett	25,615	3	0.0%	11.7	6	0.0%	23.4	9	0.0%	35.1	2,846
Harford	208,064	157	1.2%	75.5	202	1.2%	97.1	359	1.2%	172.5	579
Howard	248,000	203	1.6%	81.9	221	1.3%	89.1	424	1.4%	171.0	584
Kent	17,692	16	0.1%	90.4	15	0.1%	84.8	31	0.1%	175.2	570
Montgomery	834,814	1,440	11.1%	172.5	1,705	10.3%	204.2	3,145	10.6%	376.7	265
Prince George's	733,568	2,742	21.1%	373.8	2,999	18.1%	408.8	5,741	19.4%	782.6	127
Queen Anne's	40,871	16	0.1%	39.1	23	0.1%	56.3	39	0.1%	95.4	1047
Saint Mary's	89,056	49	0.4%	55.0	60	0.4%	67.4	109	0.4%	122.4	817
Somerset	23,041	16	0.1%	69.4	22	0.1%	95.5	38	0.1%	164.9	606
Talbot	32,981	21	0.2%	63.7	38	0.2%	115.2	59	0.2%	178.9	559
Washington	125,490	164	1.3%	130.7	134	0.8%	106.8	298	1.0%	237.5	421
Wicomico	84,554	94	0.7%	111.2	131	0.8%	154.9	225	0.8%	266.1	375
Worcester	45,218	32	0.2%	70.8	51	0.3%	112.8	83	0.3%	183.6	544
Corrections	--	536	4.1%	--	664	4.0%	--	1,200	4.1%	--	--
<b>TOTAL</b>	<b>4,923,935</b>	<b>12,994</b>	<b>100.0%</b>	<b>263.9</b>	<b>16,559</b>	<b>100.0%</b>	<b>336.3</b>	<b>29,553</b>	<b>100.0%</b>	<b>600.2</b>	<b>166</b>

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

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2012.

**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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2012, Reported through 12/31/2013**

JURISDICTION OF RESIDENCE AT DIAGNOSIS	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
Allegany	73	52	71.2%	641	9.6%	7.7%	15.4%	67.3%
Anne Arundel	1,021	601	58.9%	485	12.8%	18.0%	21.0%	48.3%
Baltimore City	13,254	7,931	59.8%	475	16.0%	17.7%	19.3%	47.0%
Baltimore	2,369	1,400	59.1%	508	13.9%	17.6%	17.4%	51.1%
Calvert	91	61	67.0%	556	13.1%	13.1%	11.5%	62.3%
Caroline	57	34	59.6%	579	17.6%	8.8%	14.7%	58.8%
Carroll	107	46	43.0%	509	13.0%	13.0%	15.2%	58.7%
Cecil	116	61	52.6%	429	9.8%	21.3%	29.5%	39.3%
Charles	294	176	59.9%	501	14.8%	10.8%	24.4%	50.0%
Dorchester	113	77	68.1%	499	13.0%	23.4%	14.3%	49.4%
Frederick	298	170	57.0%	522	11.2%	16.5%	16.5%	55.9%
Garrett	9	***	***	***	***	***	***	***
Harford	359	199	55.4%	513	15.1%	14.1%	19.6%	51.3%
Howard	424	226	53.3%	561	15.0%	13.3%	16.8%	54.9%
Kent	31	***	***	***	***	***	***	***
Montgomery	3,145	1,584	50.4%	504	13.4%	13.8%	21.9%	50.9%
Prince George's	5,741	3,061	53.3%	472	15.4%	17.2%	20.9%	46.6%
Queen Anne's	39	24	61.5%	511	4.2%	29.2%	12.5%	54.2%
Saint Mary's	109	68	62.4%	487	13.2%	17.6%	20.6%	48.5%
Somerset	38	23	60.5%	614	4.3%	13.0%	17.4%	65.2%
Talbot	59	45	76.3%	466	22.2%	17.8%	15.6%	44.4%
Washington	298	140	47.0%	509	12.1%	13.6%	22.9%	51.4%
Wicomico	225	124	55.1%	467	17.7%	17.7%	17.7%	46.8%
Worcester	83	53	63.9%	478	18.9%	17.0%	18.9%	45.3%
Corrections	1,200	599	49.9%	464	14.9%	19.5%	20.7%	44.9%
TOTAL	29,553	16,775	56.8%	483	15.1%	17.0%	19.7%	48.1%

\*\*\* Data withheld due to low population counts 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 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result reported in the 12 months prior to December 31<sup>st</sup> 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 31<sup>st</sup> 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 12/31/2012, by Jurisdiction, Reported through 12/31/2013**

JURISDICTION OF RESIDENCE AT DIAGNOSIS	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Allegany	73	48	65.8%	70.8%	2,983
Anne Arundel	1,021	542	53.1%	68.6%	15,300
Baltimore City	13,254	6,604	49.8%	67.5%	16,025
Baltimore	2,369	1,228	51.8%	70.8%	18,898
Calvert	91	58	63.7%	82.8%	23,175
Caroline	57	36	63.2%	77.8%	22,960
Carroll	107	44	41.1%	70.5%	13,004
Cecil	116	51	44.0%	80.4%	8,702
Charles	294	175	59.5%	76.6%	29,220
Dorchester	113	69	61.1%	79.7%	42,905
Frederick	298	158	53.0%	79.7%	22,463
Garrett	9	***	***	***	***
Harford	359	176	49.0%	77.3%	10,518
Howard	424	207	48.8%	73.4%	40,004
Kent	31	***	***	***	***
Montgomery	3,145	1,530	48.6%	79.8%	12,335
Prince George's	5,741	3,002	52.3%	74.6%	15,255
Queen Anne's	39	23	59.0%	87.0%	25,842
Saint Mary's	109	66	60.6%	80.3%	23,970
Somerset	38	25	65.8%	72.0%	8,360
Talbot	59	38	64.4%	78.9%	63,924
Washington	298	138	46.3%	78.3%	8,850
Wicomico	225	115	51.1%	73.9%	7,585
Worcester	83	53	63.9%	84.9%	12,148
Corrections	1,200	563	46.9%	66.4%	13,222
TOTAL	29,553	14,970	50.7%	71.5%	15,677

\*\*\* Data withheld due to low population counts 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 31<sup>st</sup> 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.

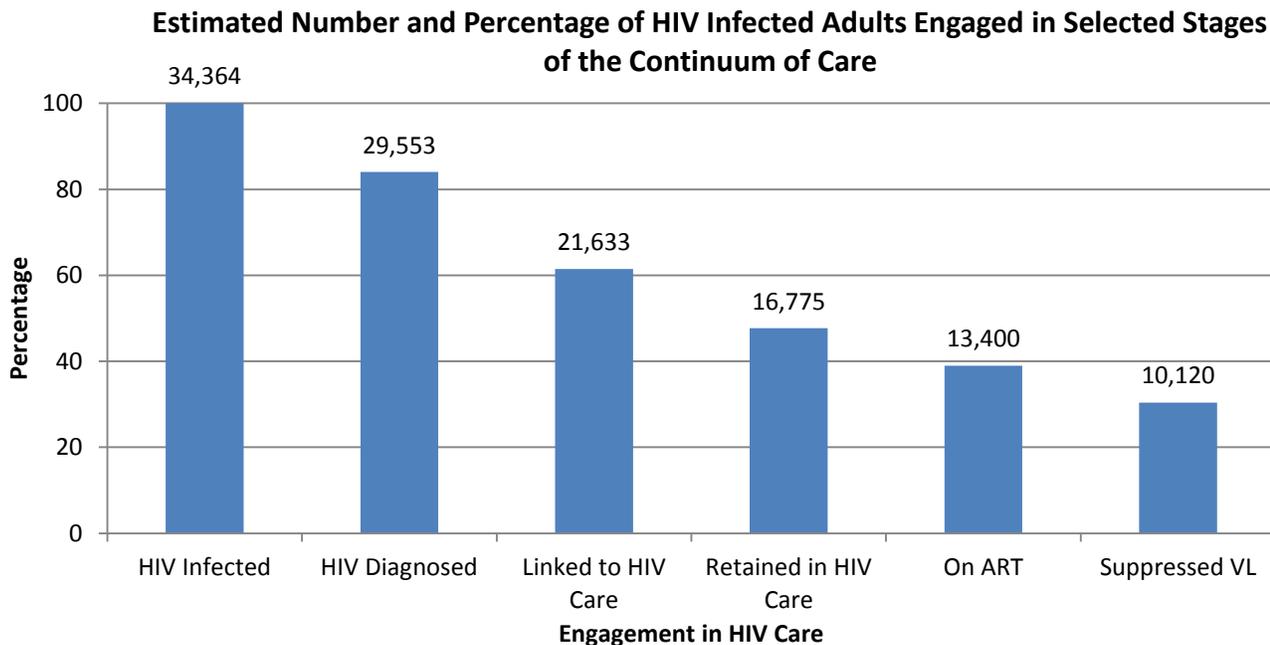
**Recent Viral Load Test Result:** The most recent viral load test result reported in the 12 months prior to December 31<sup>st</sup> of the specified year.

**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 31<sup>st</sup> 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 31<sup>st</sup> of the specified year of 200 copies per milliliter or greater.

## Figure 7 – Estimated Adult/Adolescent 2012 HIV Continuum of Care, Reported through 12/31/2013

In their 2011 article in *Clinical Infectious Diseases*, Gardner et al. utilize a continuum of care “cascade” to illustrate national estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care. The Maryland Engagement in HIV Care Cascade (below) uses the national estimate of the number of undiagnosed persons (14%) to generate an estimated total number of HIV infected persons in Maryland, and then uses local data to describe the number and percentage of persons living with HIV in Maryland who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Number	Percentage
HIV Infected	34,364	100.0%
HIV Diagnosed	29,553	86.0%
Linked to HIV Care	21,633	63.0%
Retained in HIV Care	16,775	48.8%
On ART	13,400	39.0%
Suppressed VL	10,120	29.4%

**HIV Infected:** HIV Diagnosed divided by one minus the national estimate of undiagnosed HIV infections (14%).

**HIV Diagnosed:** Adult/adolescent total living HIV cases as of December 31<sup>st</sup> 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 test result reported in the 12 months prior to December 31<sup>st</sup> of the specified year

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

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

## Section IV – Cases by Age

This section discusses trends of adult/adolescent cases by age measured by diagnoses reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2013. This section also displays CD4 results, percent linked to care, percent late diagnosis, viral load test results, and percent of viral load suppressed providing insight into age groups where current prevention and early treatment strategies should be focused.

A few important numbers:

- Age groups with the highest rates of new HIV diagnoses in Maryland:
  - 20-29 year olds: 55.8 per 100,000
  - 30-39 year olds: 41.4 per 100,000
- Age groups with the highest and lowest percent of late HIV diagnoses in Maryland:
  - 60+ year olds: 47.9%
  - 20-29 year olds: 21.4%
- Age groups with the highest and lowest percent linked to care in Maryland:
  - 50-59 year olds: 76.2%
  - 13-19 year olds: 67.1%
- Age groups with the highest rates of new AIDS diagnoses in Maryland:
  - 40-49 year olds: 34.1 per 100,000
  - 30-39 year olds: 26.5 per 100,000
- Age groups with the highest rates of living HIV cases (with or without AIDS) in Maryland:
  - 40-49 year olds: 1,093.3 per 100,000, 1 in 91 individuals
  - 50-59 year olds: 1,036.7 per 100,000, 1 in 96 individuals
- Age groups with the highest rates of new AIDS diagnoses in Maryland:
  - 40-49 year olds: 34.1 per 100,000
  - 30-39 year olds: 26.5 per 100,000

**Table 6 – HIV Diagnoses during 2012, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 12/31/2013**

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)	365,224	3	0.2%	0.8	***	***	***	***	***	***	***
5-12 (Pediatric)	972,255	2	0.1%	0.2	***	***	***	***	***	***	***
13-19	547,321	73	5.0%	13.3	49	67.1%	17	23.3%	59	80.8%	459
20-29	811,949	453	30.8%	55.8	327	72.2%	97	21.4%	371	81.9%	407
30-39	756,067	313	21.3%	41.4	227	72.5%	98	31.3%	255	81.5%	378
40-49	856,920	323	22.0%	37.7	239	74.0%	130	40.2%	258	79.9%	279
50-59	853,272	210	14.3%	24.6	160	76.2%	88	41.9%	174	82.9%	275
60+	1,098,406	94	6.4%	8.6	71	75.5%	45	47.9%	77	81.9%	221
TOTAL	5,884,563	1,471	100.0%	25.0	1,077	73.2%	475	32.3%	1,198	81.4%	355

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

**Table 7 – AIDS Diagnoses during 2012, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 12/31/2013**

AGE AT AIDS DIAGNOSIS	Population	Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
<5 (Pediatric)	365,224	0	0.0%	0.0	--	0.0%
5-12 (Pediatric)	972,255	0	0.0%	0.0	--	0.0%
13-19	547,321	23	2.2%	4.2	2.9	73.9%
20-29	811,949	171	17.2%	21.1	2.3	55.0%
30-39	756,067	200	21.1%	26.5	3.4	49.0%
40-49	856,920	292	30.4%	34.1	4.1	46.9%
50-59	853,272	191	20.0%	22.4	4.2	47.1%
60+	1,098,406	88	9.1%	8.0	4.3	52.3%
TOTAL	5,884,563	965	100.0%	16.4	3.6	49.9%

**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 7/1/2012.

**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 12/31/2012, by Age on 12/31/2012, Reported through 12/31/2013**

AGE ON 12/31/2012	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	365,224	15	0.1%	4.1	2	0.0%	0.5	17	0.1%	4.7	21,483
5-12	972,255	84	0.6%	8.6	11	0.1%	1.1	95	0.3%	9.8	10,234
13-19	547,321	214	1.6%	39.1	99	0.6%	18.1	313	1.0%	57.2	1,748
20-29	811,949	2,136	16.1%	263.1	942	5.6%	116.0	3,078	10.2%	379.1	263
30-39	756,067	2,690	20.3%	355.8	2,298	13.7%	303.9	4,988	16.6%	659.7	151
40-49	856,920	3,753	28.3%	438.0	5,616	33.5%	655.4	9,369	31.2%	1,093.3	91
50-59	853,272	3,194	24.1%	374.3	5,652	33.7%	662.4	8,846	29.4%	1,036.7	96
60+	1,098,406	1,188	8.9%	108.2	2,167	12.9%	197.3	3,355	11.2%	305.4	327
TOTAL	5,884,563	13,274	100.0%	225.6	16,787	100.0%	285.3	30,061	100.0%	510.8	195

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

**Population:** Population estimate for 7/1/2012.

**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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 12/31/2012, by Age on 12/31/2012, Reported through 12/31/2013**

AGE ON 12/31/2012	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
13-19	137	73	53.3%	527	6.8%	19.2%	19.2%	54.8%
20-29	2,873	1,681	58.5%	479	12.6%	17.0%	23.6%	46.8%
30-39	4,975	2,775	55.8%	490	16.0%	15.4%	20.0%	48.7%
40-49	9,368	5,309	56.7%	475	16.5%	17.0%	19.4%	47.2%
50-59	8,846	5,121	57.9%	491	14.9%	17.5%	18.7%	48.9%
60+	3,354	1,816	54.1%	486	13.0%	18.5%	19.9%	48.6%
TOTAL	29,553	16,775	56.8%	483	15.1%	17.0%	19.7%	48.1%

**Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2012, by Age on 12/31/2012, Reported through 12/31/2013**

AGE ON 12/31/2012	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
13-19	137	80	58.4%	25.0%	13,191
20-29	2,873	1,606	55.9%	48.9%	10,452
30-39	4,975	2,584	51.9%	63.7%	11,190
40-49	9,368	4,762	50.8%	68.8%	10,000
50-59	8,846	4,415	49.9%	72.7%	6,869
60+	3,354	1,523	45.4%	77.5%	4,660
TOTAL	29,553	14,970	50.7%	67.6%	9,060

**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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> of the specified year of 200 copies per milliliter or greater.

## Section V – Adult/Adolescent Cases by Demographics

This section discusses trends of adult/adolescent cases by sex at birth, race/ethnicity, and country of birth, measured by diagnoses reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2013. This section also displays CD4 results, percent linked to care, percent late diagnosis, viral load test results, and percent of viral load suppressed providing insight into demographics where current prevention and early treatment strategies should be focused.

### A Few Important Numbers:

- **1,071** Male (at birth) Adult/Adolescent HIV Diagnoses in 2012
- **395** Female (at birth) Adult/Adolescent HIV Diagnoses in 2012
- **87** Hispanic Adult/Adolescent HIV Diagnoses in 2012
- **1,379** Non-Hispanic Adult/Adolescent HIV Diagnoses in 2012
- **1,180** US Born Adult/Adolescent HIV Diagnoses in 2012
- **117** Foreign Born Adult/Adolescent HIV Diagnoses in 2012

**Table 11 – Adult/Adolescent HIV Diagnoses during 2012, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2013**

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	2,360,279	1,071	73.1%	45.4	780	72.8%	348	32.5%	862
Female	2,563,656	395	26.9%	15.4	293	74.2%	127	32.2%	332	84.1%	381
TOTAL	4,923,935	1,466	100.0%	29.8	1,073	73.2%	475	32.4%	1,194	81.4%	354

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	387,644	87	5.9%	22.4	61	70.1%	38	43.7%	73
Non-Hispanic	4,536,291	1,379	94.1%	30.4	1,012	73.4%	437	31.7%	1,121	81.3%	356
American Indian/Alaska Native, only	12,090	***	***	***	***	***	***	***	***	***	***
Asian, only	290,162	20	1.4%	6.9	16	80.0%	7	35.0%	17	85.0%	267
Black, only	1,410,623	1,119	76.3%	79.3	809	72.3%	352	31.5%	898	80.3%	349
Native Hawaiian/Other Pacific Islander, only	2,352	***	***	***	***	***	***	***	***	***	***
White only	2,743,271	193	13.2%	7.0	150	77.7%	58	30.1%	166	86.0%	416
Multiracial/Other	77,793	43	2.9%	55.3	34	79.1%	18	41.9%	38	88.4%	351
TOTAL	4,923,935	1,466	100.0%	29.8	1,073	73.2%	475	32.4%	1,194	81.4%	354

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	4,115,741	1,180	80.5%	28.7	858	72.7%	369	31.3%	953
Foreign-born	800,597	117	8.0%	14.6	85	72.6%	56	47.9%	102	87.2%	265
Africa	--	73	5.0%	--	52	71.2%	35	47.9%	63	86.3%	236
Asia	--	9	0.6%	--	5	55.6%	***	***	7	77.8%	211
Caribbean	--	13	0.9%	--	11	84.6%	9	69.2%	13	100.0%	557
Central America	--	16	1.1%	--	12	75.0%	5	31.3%	14	87.5%	395
Other	--	6	0.4%	--	5	83.3%	***	***	5	83.3%	40
Unknown	--	169	11.5%	--	130	76.9%	50	29.6%	139	82.2%	407
TOTAL	4,916,338	1,466	100.0%	29.8	1,073	73.2%	475	32.4%	1,194	81.4%	354

\* Population data by sex at birth, age, and race/ethnicity are from the 2012 U.S. Census population estimates

\*\* Population data by country of birth are from the 2012 American Community Survey

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

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

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2012.

**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 2012, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2013**

SEX AT BIRTH	Population Age 13+*	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Male	2,360,279	638	66.7%	27.0	3.1	54.5%
Female	2,563,656	319	33.3%	12.4	4.4	42.0%
TOTAL	4,923,935	957	100.0%	19.4	3.5	50.4%

RACE/ETHNICITY	Population Age 13+*	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Hispanic	387,644	50	5.2%	12.9	2	66.0%
Non-Hispanic	4,536,291	907	94.8%	20.0	3.6	49.5%
American Indian/Alaska Native, only	12,090	***	***	***	***	***
Asian, only	290,162	7	0.7%	2.4	0.8	71.4%
Black, only	1,410,623	754	78.8%	53.5	3.7	48.4%
Native Hawaiian/Other Pacific Islander, only	2,352	***	***	***	***	***
White only	2,743,271	102	10.7%	3.7	3	60.8%
Multiracial/Other	77,793	42	4.4%	54.0	3.8	35.7%
TOTAL	4,923,935	957	100.0%	19.4	3.5	50.4%

COUNTRY OF BIRTH	Population Age 13+**	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
United States	4,115,741	802	83.8%	19.5	3.9	46.8%
Foreign-born	800,597	81	8.5%	10.1	1.6	70.4%
Africa	--	55	5.7%	--	1.4	67.3%
Asia	--	***	***	***	***	***
Caribbean	--	7	0.7%	--	0.1	100.0%
Central America	--	11	1.1%	0.0	3.1	63.6%
Other	--	***	***	***	***	***
Unknown	--	74	7.7%	--	1.8	67.6%
TOTAL	4,916,338	957	100.0%	19.5	3.5	50.4%

\* Population data by sex at birth, age, and race/ethnicity are from the 2012 U.S. Census population estimates

\*\* Population data by country of birth are from the 2012 American Community Survey

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

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

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2012.

**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 12/31/2012 and Reported through 12/31/2013**

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	2,360,279	8,262	63.6%	350.0	10,762	65.0%	456.0	19,024	64.4%	806.0	124
Female	2,563,656	4,732	36.4%	184.6	5,797	35.0%	226.1	10,529	35.6%	410.7	243
TOTAL	4,923,935	12,994	100.0%	263.9	16,559	100.0%	336.3	29,553	100.0%	600.2	166

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	387,644	559	4.3%	144.2	839	5.1%	216.4	1,398	4.7%	360.6	277
Non-Hispanic	4,536,291	12,435	95.7%	274.1	15,720	94.9%	346.5	28,155	95.3%	620.7	161
American Indian/Alaska Native, only	12,090	17	0.1%	140.6	9	0.1%	74.4	26	0.1%	215.1	465
Asian, only	290,162	88	0.7%	30.3	55	0.3%	19.0	143	0.5%	49.3	2029
Black, only	1,410,623	9,905	76.2%	702.2	12,693	76.7%	899.8	22,598	76.5%	1602.0	62
Native Hawaiian/Other Pacific Islander, only	2,352	9	0.1%	382.6	7	0.0%	297.6	16	0.1%	680.2	147
White only	2,743,271	2,084	16.0%	76.0	2,315	14.0%	84.4	4,399	14.9%	160.4	623
Multiracial/Other	77,793	332	2.6%	426.8	641	3.9%	824.0	973	3.3%	1250.8	79
TOTAL	4,923,935	12,994	100.0%	263.9	16,559	100.0%	336.3	29,553	100.0%	600.2	166

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	4,115,741	11,613	89.4%	282.2	14,776	89.2%	359.0	26,389	89.3%	641.2	155
Foreign-born	800,597	771	5.9%	96.3	1,488	9.0%	185.9	2,259	7.6%	282.2	354
Africa	--	425	3.3%	--	889	5.4%	--	1,314	4.4%	--	--
Asia	--	41	0.3%	--	53	0.3%	--	94	0.3%	--	--
Caribbean	--	63	0.5%	--	130	0.8%	--	193	0.7%	--	--
Central America	--	111	0.9%	--	259	1.6%	--	370	1.3%	--	--
Other	--	130	1.0%	--	157	0.9%	--	287	1.0%	--	--
Unknown	--	610	4.7%	--	295	1.8%	--	905	3.1%	--	--
TOTAL	4,916,338	12,994	100.0%	264.3	16,559	100.0%	336.8	29,553	100.0%	601.1	166

\* Population data by sex at birth, age, and race/ethnicity are from the 2012 U.S. Census population estimates

\*\* Population data by country of birth are from the 2012 American Community Survey

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2012.

**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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 12/31/2012 and Reported through 12/31/2013**

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	19,024	10,401	54.7%	466	15.4%	18.1%	20.8%	45.7%
Female	10,529	6,374	60.5%	515	14.6%	15.3%	18.1%	52.0%
TOTAL	29,553	16,775	56.8%	483	15.1%	17.0%	19.7%	48.1%

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	1,398	724	51.8%	472	15.7%	17.8%	19.8%	46.7%
Non-Hispanic	28,155	16,051	57.0%	484	15.1%	17.0%	19.7%	48.2%
American Indian/Alaska Native, only	26	13	0.1%	596	30.8%	0.0%	15.4%	53.8%
Asian, only	143	76	0.5%	487	7.9%	22.4%	22.4%	47.4%
Black, only	22,598	13,000	77.5%	475	15.5%	17.3%	20.0%	47.1%
Native Hawaiian/Other Pacific Islander, only	16	6	0.0%	823	16.7%	0.0%	0.0%	83.3%
White only	4,399	2,233	13.3%	550	11.1%	14.5%	18.0%	56.5%
Multiracial/Other	973	723	4.3%	443	19.9%	18.5%	19.9%	41.6%
TOTAL	29,553	16,775	56.8%	483	15.1%	17.0%	19.7%	48.1%

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	26,389	14,985	56.8%	484	15.3%	17.0%	19.5%	48.2%
Foreign-born	2,259	1,190	52.7%	485	12.8%	18.1%	21.1%	48.1%
Africa	1,314	734	4.4%	465	12.5%	19.6%	22.6%	45.2%
Asia	94	52	0.3%	518	13.5%	17.3%	15.4%	53.8%
Caribbean	193	100	0.6%	571	12.0%	15.0%	14.0%	59.0%
Central America	370	185	1.1%	479	15.7%	17.8%	19.5%	47.0%
Other	287	118	0.7%	534	10.2%	11.9%	22.9%	55.1%
Unknown	905	600	3.6%	477	14.7%	16.7%	22.3%	46.3%
TOTAL	29,553	16,775	56.8%	483	15.1%	17.0%	19.7%	48.1%

**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 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result reported in the 12 months prior to December 31<sup>st</sup> 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 31<sup>st</sup> 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 12/31/2012 and Reported through 12/31/2013**

SEX AT BIRTH	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	19,024	9,320	49.0%	68.8%	10,020
Female	10,529	5,650	53.7%	65.6%	7,915
TOTAL	29,553	14,970	50.7%	67.6%	9,060

RACE/ETHNICITY	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	1,398	687	49.1%	78.0%	16,534
Non-Hispanic	28,155	14,283	50.7%	71.2%	15,610
American Indian/Alaska Native, only	26	0.1%	50.0%	69.2%	45,450
Asian, only	143	0.5%	53.1%	72.4%	26,714
Black, only	22,598	76.5%	51.1%	69.8%	15,552
Native Hawaiian/Other Pacific Islander, only	16	0.1%	31.3%	80.0%	2,050
White only	4,399	14.9%	45.7%	79.7%	15,456
Multiracial/Other	973	3.3%	64.9%	68.1%	17,756
TOTAL	29,553	14,970	50.7%	71.5%	15,677

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	26,389	13,256	50.2%	70.6%	15,840
Foreign-born	2,259	1,147	50.8%	80.7%	9,494
Africa	1,314	704	4.7%	82.4%	7,400
Asia	94	46	0.3%	71.7%	18,087
Caribbean	193	98	0.7%	77.6%	45,111
Central America	370	183	1.2%	77.6%	23,038
Other	287	115	0.8%	81.7%	7,750
Unknown	905	567	3.8%	73.7%	15,801
TOTAL	29,553	14,970	50.7%	71.5%	15,677

**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 31<sup>st</sup> of the specified year.

**Recent Viral Load Test Result:** The most recent viral load test result reported in the 12 months prior to December 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> of the specified year of 200 copies per milliliter or greater.

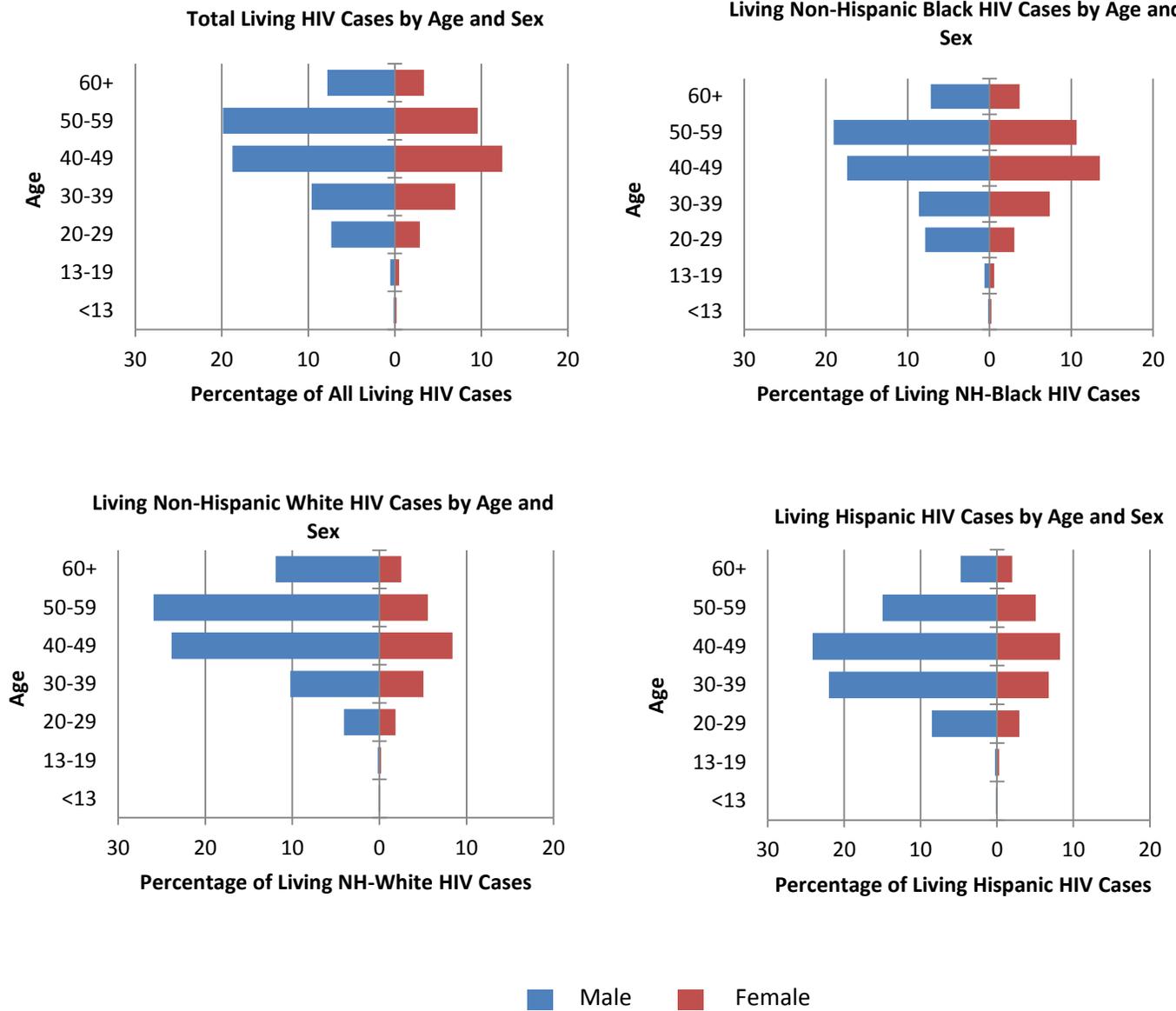
## Section VI – HIV Cases by Expanded Demographics

This section discusses trends of adult/adolescent cases by age, gender, and race/ethnicity, measured by total living cases reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2013.

A few important numbers:

- Age groups with the highest rate of total living HIV cases in Maryland for all race/ethnicity:
  - Males: 50-59 year olds, 1,464.1 per 100,000, 1 in 68
  - Females: 40-49 year olds, 839.2 per 100,000, 1 in 119
- Age groups with the highest rate of total living HIV cases in Maryland for non-Hispanic blacks:
  - Males: 50-59 year olds, 4,129.6 per 100,000, 1 in 24
  - Females: 40-49 year olds, 2,192.1 per 100,000, 1 in 45
- Age groups with the highest rate of total living HIV cases in Maryland for non-Hispanic whites:
  - Males: 40-49 year olds, 473.2 per 100,000, 1 in 211
  - Females: 40-49 year olds, 160.2 per 100,000, 1 in 624
- Age groups with highest rate of total living HIV cases in Maryland for Hispanics:
  - Males: 50-59 year olds, 1,035.7 per 100,000, 1 in 96
  - Females: 40-49 year olds, 357.3 per 100,000, 1 in 279

**Figure 8 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2012 and Reported through 12/31/2013**



**Total Living HIV Cases:** Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2012 and Reported through 12/31/2013**

MALES						
AGE ON 12/31/2012		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	63,676	153,284	218,856	54,307	490,123
	Cases	2	41	4	3	50
	Rate	3.1	26.7	1.8	5.5	10.2
	Ratio (1 in X)	31,838	3,738	54,714	18,102	9,802
13-19	Population	28,207	89,597	136,761	25,216	279,781
	Cases	4	142	9	8	163
	Rate	14.2	158.5	6.6	31.7	58.3
	Ratio (1 in X)	7,051	630	15,195	3,151	1,716
20-29	Population	51,564	122,379	201,404	33,730	409,077
	Cases	120	1,811	181	99	2,211
	Rate	232.7	1,479.8	89.9	293.5	540.5
	Ratio (1 in X)	429	67	1,112	340	185
30-39	Population	54,312	102,809	176,357	34,779	368,257
	Cases	310	1,987	455	138	2,890
	Rate	570.8	1,932.7	258.0	396.8	784.8
	Ratio (1 in X)	175	51	387	252	127
40-49	Population	36,743	119,318	224,209	31,807	412,077
	Cases	340	4,011	1,061	224	5,636
	Rate	925.3	3,361.6	473.2	704.2	1,367.7
	Ratio (1 in X)	108	29	211	141	73
50-59	Population	20,372	106,330	254,961	25,678	407,341
	Cases	211	4,391	1,154	208	5,964
	Rate	1,035.7	4,129.6	452.6	810.0	1,464.1
	Ratio (1 in X)	96	24	220	123	68
60+	Population	13,397	103,475	339,107	27,768	483,747
	Cases	67	1,653	530	90	2,340
	Rate	500.1	1,597.5	156.3	324.1	483.7
	Ratio (1 in X)	199	62	639	308	206
TOTAL MALES BY RACE/ETHNICITY	Population	268,271	797,192	1,551,655	233,285	2,850,403
	Cases	1,054	14,036	3,394	770	19,254
	Rate	392.9	1,760.7	218.7	330.1	675.5
	Ratio (1 in X)	254	56	457	302	148

**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 31<sup>st</sup> of the specified year.

**Population:** Population estimate for 7/1/2012.

**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 12/31/2012 and Reported through 12/31/2013**

FEMALES						
AGE ON 12/31/2012		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	60,690	148,410	208,161	53,244	470,505
	Cases	0	55	4	3	62
	Rate	0.0	37.1	1.9	5.6	13.2
	Ratio (1 in X)	--	2,698	52,040	17,747	7,588
13-19	Population	25,859	87,917	128,927	24,837	267,540
	Cases	4	134	9	3	150
	Rate	15.5	152.4	7.0	12.1	56.1
	Ratio (1 in X)	6,464	656	14,325	8,279	1,783
20-29	Population	41,875	130,445	194,882	35,670	402,872
	Cases	41	699	82	45	867
	Rate	97.9	535.9	42.1	126.2	215.2
	Ratio (1 in X)	1,021	186	2,376	792	464
30-39	Population	44,135	123,236	179,202	41,237	387,810
	Cases	95	1,697	225	81	2,098
	Rate	215.2	1,377.0	125.6	196.4	541.0
	Ratio (1 in X)	464	72	796	509	184
40-49	Population	32,468	141,918	232,884	37,573	444,843
	Cases	116	3,111	373	133	3,733
	Rate	357.3	2,192.1	160.2	354.0	839.2
	Ratio (1 in X)	279	45	624	282	119
50-59	Population	20,667	131,588	263,619	30,057	445,931
	Cases	71	2,450	248	113	2,882
	Rate	343.5	1,861.9	94.1	376.0	646.3
	Ratio (1 in X)	291	53	1,062	265	154
60+	Population	18,045	151,611	410,958	34,045	614,659
	Cases	28	850	111	26	1,015
	Rate	155.2	560.6	27.0	76.4	165.1
	Ratio (1 in X)	644	178	3,702	1,309	605
TOTAL FEMALES BY RACE/ETHNICITY	Population	243,739	915,125	1,618,633	256,663	3,034,160
	Cases	355	8,996	1,052	404	10,807
	Rate	145.6	983.0	65.0	157.4	356.2
	Ratio (1 in X)	686	101	1,538	635	280

**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 31<sup>st</sup> of the specified year.

**Population:** Population estimate for 7/1/2012.

**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

This section discusses adult/adolescent HIV diagnosis cases by exposure category reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2013. This section describes exposure category by sex at birth and race/ethnicity. This section also displays CD4 results, percent linked to care, percent late diagnosis, viral load test results, and percent of viral load suppressed providing insight into demographics where current prevention and early treatment strategies should be focused.

A few important numbers:

- **619** reported adult/adolescent AIDS diagnoses during 2012 with an exposure category
  - **424** Males
  - **195** Females
- **242** reported adult/adolescent AIDS diagnoses during 2012 among Men who have Sex with Men (MSM)
- **252** reported adult/adolescent AIDS diagnoses during 2012 with Heterosexual Exposure (HET)
  - **99** Males
  - **153** Females
- **108** reported adult/adolescent AIDS diagnoses during 2012 among Injection Drug Users (IDU)

**Table 18 – Adult/Adolescent HIV Diagnoses during 2012, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2013**

EXPOSURE CATEGORY	Adult/Adolescent HIV Diagnoses							
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. Late Diagnosis	% Late Diagnosis	First CD4 Test Result	
							% with Test	Median Count
With Exposure	921	100.0%	681	73.9%	290	31.5%	83.9%	370
Men who have Sex with Men (MSM)	511	55.5%	380	74.4%	140	27.4%	84.9%	395
Injection Drug Users (IDU)	65	7.1%	40	61.5%	27	41.5%	76.9%	303
Men who have Sex with Men and Inject Drugs (MSM/IDU)	9	1.0%	7	77.8%	4	44.4%	77.8%	210
Heterosexual Exposure (HET)	330	35.8%	252	76.4%	119	36.1%	84.8%	345
Other Exposure	6	0.7%	2	33.3%	0	0.0%	33.3%	1054
No Reported Exposure	545		392	71.9%	185	33.9%	77.2%	326
<b>TOTAL</b>	<b>1466</b>		<b>1,073</b>	<b>73.2%</b>	<b>475</b>	<b>32.4%</b>	<b>81.4%</b>	<b>354</b>

MALE EXPOSURE CATEGORY	Adult/Adolescent Reported HIV Diagnoses							
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis	First CD4 Test Result	
							% with Test	Median Count
With Exposure	723	100.0%	533	73.7%	225	31.1%	83.4%	367
Men who have Sex with Men (MSM)	511	70.7%	380	74.4%	140	27.4%	84.9%	395
Injection Drug Users (IDU)	38	5.3%	25	65.8%	17	44.7%	76.3%	268
Men who have Sex with Men and Inject Drugs (MSM/IDU)	9	1.2%	7	77.8%	***	***	77.8%	210
Heterosexual Exposure (HET)	161	22.3%	121	75.2%	64	39.8%	82.6%	275
Other Exposure	4	0.6%	0	0.0%	***	***	0.0%	--
No Reported Exposure	348		247	71.0%	123	35.3%	74.4%	309
<b>TOTAL</b>	<b>1,071</b>		<b>780</b>	<b>72.8%</b>	<b>348</b>	<b>32.5%</b>	<b>80.5%</b>	<b>347</b>

FEMALE EXPOSURE CATEGORY	Adult/Adolescent Reported HIV Diagnoses							
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. Late Diagnosis	% Late Diagnosis	First CD4 Test Result	
							% with Test	Median Count
With Exposure	198	100.0%	148	74.7%	65	32.8%	85.9%	390
Injection Drug Users (IDU)	27	6.8%	15	55.6%	10	37.0%	77.8%	505
Heterosexual Exposure (HET)	169	42.8%	131	77.5%	55	32.5%	87.0%	380
Other Exposure	2	0.5%	2	100.0%	0	0.0%	100.0%	1054
No Reported Exposure	197		145	73.6%	62	31.5%	82.2%	367
<b>TOTAL</b>	<b>395</b>		<b>293</b>	<b>74.2%</b>	<b>127</b>	<b>32.2%</b>	<b>84.1%</b>	<b>381</b>

\*\*\* 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 2012, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2013**

EXPOSURE CATEGORY	Adult/Adolescent Reported AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	619	100.0%	4.1	47.5%
Men who have Sex with Men (MSM)	242	25.3%	2.7	59.5%
Injection Drug Users (IDU)	108	11.3%	7.4	19.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	15	1.6%	6.8	40.0%
Heterosexual Exposure (HET)	252	26.3%	3.9	48.4%
Other Exposures	2	0.2%	7	50.0%
No Reported Exposure	338		2.4	55.6%
TOTAL	957		3.5	50.4%

MALE EXPOSURE CATEGORY	Adult/Adolescent Reported AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	424	100.0%	3.6	52.6%
Men who have Sex with Men (MSM)	242	57.1%	2.7	59.5%
Injection Drug Users (IDU)	67	15.8%	6.4	20.9%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	15	3.5%	6.8	40.0%
Heterosexual Exposure (HET)	99	23.3%	3	59.6%
Other Exposures	1	0.2%	14	0.0%
No Reported Exposure	214		2.3	58.4%
TOTAL	638		3.1	54.5%

FEMALE EXPOSURE CATEGORY	Adult/Adolescent Reported AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	195	100.0%	5.4	36.4%
Injection Drug Users (IDU)	41	21.0%	9	17.1%
Heterosexual Exposure (HET)	153	78.5%	4.4	41.2%
Other Exposures	1	0.5%	0	100.0%
No Reported Exposure	124		2.8	50.8%
TOTAL	319		4.4	42.0%

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

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

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

**Table 20 – Adult/Adolescent Living HIV Cases with and without AIDS by Exposure Category and Sex at Birth, Alive on 12/31/2012 and Reported through 12/31/2013**

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	8,399	100.0%	13,753	100.0%	22,152	100.0%
Men who have Sex with Men (MSM)	3,276	39.0%	3,855	28.0%	7,131	32.2%
Injection Drug Users (IDU)	1,961	23.3%	4,566	33.2%	6,527	29.5%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	212	2.5%	561	4.1%	773	3.5%
Heterosexual Exposure (HET)	2,922	34.8%	4,705	34.2%	7,627	34.4%
Other Exposures	28	0.3%	66	0.5%	94	0.4%
No Reported Exposure	4,595		2,806		7,401	
TOTAL	12,994		16,559		29,553	

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	5,666	100.0%	9,101	100.0%	14,767	100.0%
Men who have Sex with Men (MSM)	3,276	57.8%	3,855	42.4%	7,131	48.3%
Injection Drug Users (IDU)	1,204	21.2%	2,913	32.0%	4,117	27.9%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	212	3.7%	561	6.2%	773	5.2%
Heterosexual Exposure (HET)	960	16.9%	1,737	19.1%	2,697	18.3%
Other Exposures	14	0.2%	35	0.4%	49	0.3%
No Reported Exposure	2,596		1,661		4,257	
TOTAL	8,262		10,762		19,024	

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	2,733	100.0%	4,652	100.0%	7,385	100.0%
Injection Drug Users (IDU)	757	27.7%	1,653	35.5%	2,410	32.6%
Heterosexual Exposure (HET)	1,962	71.8%	2,968	63.8%	4,930	66.8%
Other Exposures	14	0.5%	31	0.7%	45	0.6%
No Reported Exposure	1,999		1,145		3,144	
TOTAL	4,732		5,797		10,529	

\* Includes 124 HIV cases without AIDS and 82 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> of the specified year.

**Table 21 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2012 and Reported through 12/31/2013**

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	1,018	100.0%	16,796	100.0%	3,416	100.0%
Men who have Sex with Men (MSM)	414	40.7%	4,435	26.4%	1,944	56.9%
Injection Drug Users (IDU)	124	12.2%	5,439	32.4%	696	20.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	30	2.9%	575	3.4%	128	3.7%
Heterosexual Exposure (HET)	447	43.9%	6,290	37.4%	617	18.1%
Other Exposures	3	0.3%	57	0.3%	31	0.9%
No Reported Exposure	380		5,802		983	
TOTAL	1,398		22,598		4,399	

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	780	100.0%	10,688	100.0%	2,689	100.0%
Men who have Sex with Men (MSM)	414	53.1%	4,435	41.5%	1,944	72.3%
Injection Drug Users (IDU)	92	11.8%	3,509	32.8%	372	13.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	30	3.8%	575	5.4%	128	4.8%
Heterosexual Exposure (HET)	242	31.0%	2,146	20.1%	222	8.3%
Other Exposures	2	0.3%	23	0.2%	23	0.9%
No Reported Exposure	268		3,157		680	
TOTAL	1,048		13,845		3,369	

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	238	100.0%	6,108	100.0%	727	100.0%
Injection Drug Users (IDU)	32	13.4%	1,930	31.6%	324	44.6%
Heterosexual Exposure (HET)	205	86.1%	4,144	67.8%	395	54.3%
Other Exposures	1	0.4%	34	0.6%	8	1.1%
No Reported Exposure	112		2,645		303	
TOTAL	350		8,753		1,030	

\* Includes 10 Hispanic cases, 179 non-Hispanic black cases, and 13 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 31<sup>st</sup> of the specified year.

**Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2012 and Reported through 12/31/2013**

EXPOSURE CATEGORY	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
With Exposure	22,152	13,050	58.9%	483	15.0%	17.0%	19.9%	48.1%
Men who have Sex with Men (MSM)	7,131	3,968	55.6%	515	10.9%	16.0%	20.8%	52.3%
Injection Drug Users (IDU)	6,527	3,882	59.5%	428	19.0%	20.7%	19.2%	41.1%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	773	457	59.1%	428	19.3%	17.3%	23.9%	39.6%
Heterosexual Exposure (HET)	7,627	4,693	61.5%	508	14.6%	14.7%	19.5%	51.1%
Other Exposures	94	50	53.2%	352	32.0%	18.0%	10.0%	40.0%
No Reported Exposure	7,401	3,725	50.3%	485	15.4%	17.3%	19.1%	48.2%
TOTAL	29,553	16,775	56.8%	483	15.1%	17.0%	19.7%	48.1%

\* Includes 206 cases with Presumed Female Heterosexual exposure

**Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2012 and Reported through 12/31/2013**

EXPOSURE CATEGORY	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Results			Median Count
		No. with Test	% with Test	% Suppressed	
With Exposure	22,152	11,430	51.6%	67.6%	9,060
Men who have Sex with Men (MSM)	7,131	3,598	50.5%	70.1%	11,413
Injection Drug Users (IDU)	6,527	3,200	49.0%	62.4%	11,540
Men who have Sex with Men and Inject Drugs (MSM/IDU)	773	382	49.4%	63.4%	8,512
Heterosexual Exposure (HET)	7,627	4,206	55.1%	69.9%	7,475
Other Exposures	94	44	46.8%	54.5%	29,527
No Reported Exposure	7,401	3,540	47.8%	67.6%	7,683
TOTAL	29,553	14,970	50.7%	71.5%	15,677

\* Includes 206 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 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result reported in the 12 months prior to December 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> of the specified year of 200 copies per milliliter or greater.

## Section VIII – Disease Progression and Mortality

This section discusses adult/adolescent reported HIV diagnosis trends in disease progression by year, and survival times by year of AIDS diagnosis, measured by diagnoses reported to the Maryland Department of Health and Mental Hygiene as of December 31, 2013. This section breaks down the mean years from HIV to AIDS, and the percent with AIDS by years after HIV diagnosis by 1, 2, 5, and 10 years. This section also displays mean years from AIDS to death, and the percent dead at the year from those adult/adolescent reported AIDS diagnoses. The percent alive by years after AIDS diagnosis is also broken down by 1, 2, 5, and 10 years.

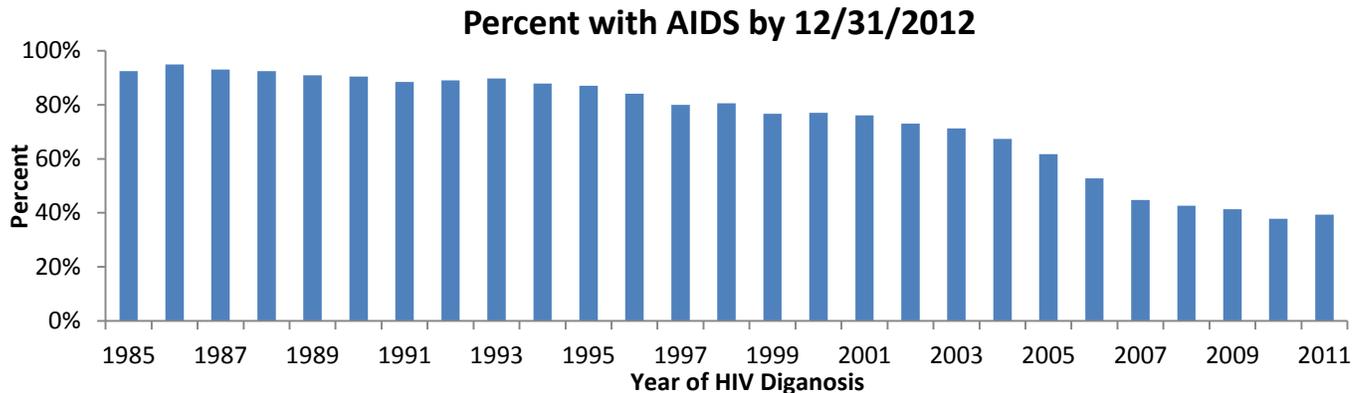
A few important numbers:

- **347** reported adult/adolescent HIV diagnoses prior to 1985.
- **331** reported adult/adolescent AIDS diagnoses prior to 1985.
- **1,516** reported adult/adolescent HIV diagnoses in 2011.
- **598** reported adult/adolescent AIDS diagnoses in 2011.

These numbers show that the time between being diagnosed with HIV and progressing to AIDS has decreased drastically. Prior to 1985, **95.4%** of HIV diagnoses were also found to be AIDS defined. In 2011, **39.4%** of HIV diagnoses were found to be AIDS defined.

## Figure 9 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2011, Reported through 12/31/2013

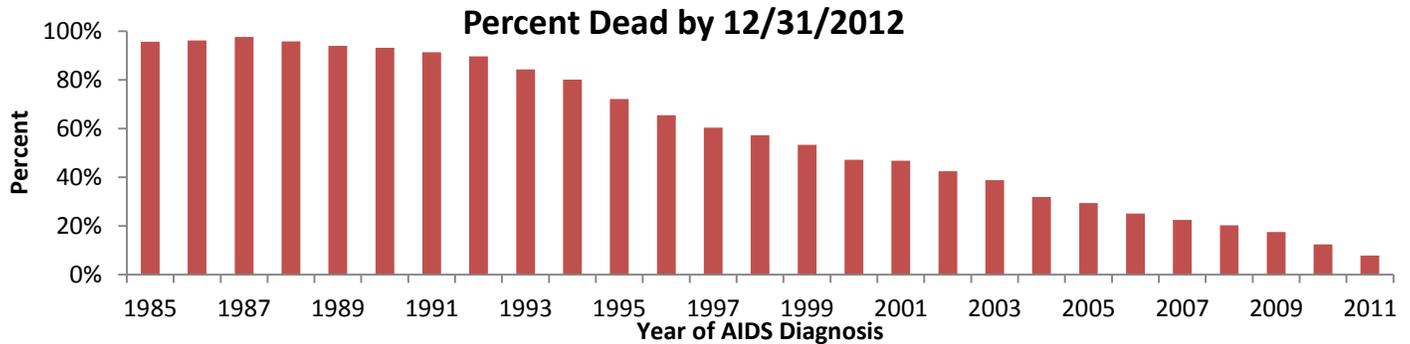
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/11 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2012 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2012, 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 2011, as Reported by Name through 12/31/2013



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	347	331	95.4%	6.7	39.8%	39.8%	43.2%	67.4%
1985	686	634	92.4%	6.2	31.8%	33.1%	40.1%	74.9%
1986	915	868	94.9%	5.3	36.9%	37.9%	49.3%	82.0%
1987	1,232	1,146	93.0%	4.4	38.6%	40.9%	57.7%	83.5%
1988	1,663	1,538	92.5%	3.7	40.7%	44.6%	65.7%	85.6%
1989	2,143	1,947	90.9%	3.5	41.1%	45.7%	68.5%	83.9%
1990	2,207	1,997	90.5%	3.0	44.6%	51.7%	72.8%	85.1%
1991	2,569	2,272	88.4%	2.7	46.2%	55.0%	73.1%	82.7%
1992	2,434	2,166	89.0%	2.6	49.7%	58.1%	74.3%	82.9%
1993	2,180	1,956	89.7%	2.2	55.1%	63.3%	77.0%	85.2%
1994	2,004	1,761	87.9%	2.1	57.0%	64.3%	75.1%	83.2%
1995	2,011	1,749	87.0%	2.1	58.3%	63.7%	72.7%	82.6%
1996	1,868	1,571	84.1%	1.9	59.0%	63.4%	71.4%	80.2%
1997	1,897	1,518	80.0%	1.9	56.3%	60.6%	68.4%	76.0%
1998	1,863	1,502	80.6%	2.0	56.0%	59.7%	67.6%	76.0%
1999	1,803	1,383	76.7%	1.6	56.5%	60.2%	67.3%	74.0%
2000	1,721	1,326	77.0%	1.5	55.7%	59.4%	68.4%	75.1%
2001	1,852	1,410	76.1%	1.3	57.6%	61.0%	69.7%	74.7%
2002	2,095	1,529	73.0%	1.3	55.7%	59.4%	65.8%	71.7%
2003	1,969	1,401	71.2%	1.2	55.6%	58.7%	64.1%	--
2004	2,020	1,362	67.4%	1.2	52.4%	55.5%	61.0%	--
2005	2,075	1,280	61.7%	1.1	48.0%	50.6%	56.5%	--
2006	2,214	1,169	52.8%	1.1	39.8%	42.1%	49.3%	--
2007	2,318	1,039	44.8%	1.2	32.1%	34.3%	--	--
2008	2,190	934	42.6%	1.0	31.0%	34.2%	--	--
2009	1,826	754	41.3%	0.9	30.6%	33.6%	--	--
2010	1,826	691	37.8%	0.5	30.6%	34.2%	--	--
2011	1,516	598	39.4%	0.4	34.8%	--	--	--
TOTAL	51,444	37,832	73.5%	2.2	46.9%	51.3%	61.6%	70.1%

**Figure 10 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2011, Reported through 12/31/2013**

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/11 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2012 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2012, 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 2011, as Reported by Name through 12/31/2013



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	143	139	97.2%	1.7	41.3%	19.6%	9.8%	7.0%
1985	209	200	95.7%	1.6	42.6%	20.1%	11.5%	6.2%
1986	318	306	96.2%	2.1	50.9%	33.0%	13.5%	8.5%
1987	491	479	97.6%	2.0	56.8%	31.4%	10.8%	5.5%
1988	688	659	95.8%	2.1	60.3%	37.6%	13.7%	6.3%
1989	922	867	94.0%	2.5	63.9%	43.4%	17.7%	9.7%
1990	1,178	1,098	93.2%	2.8	66.6%	47.7%	21.3%	12.1%
1991	1,471	1,344	91.4%	2.6	68.2%	48.1%	19.0%	12.9%
1992	1,961	1,759	89.7%	2.9	71.9%	50.5%	22.7%	16.9%
1993	2,259	1,905	84.3%	3.3	77.1%	56.5%	33.5%	22.8%
1994	2,177	1,743	80.1%	3.5	77.8%	58.9%	39.7%	26.7%
1995	2,177	1,570	72.1%	4.2	78.3%	67.3%	51.5%	37.3%
1996	1,961	1,284	65.5%	4.7	82.4%	75.7%	60.5%	44.4%
1997	1,698	1,024	60.3%	4.7	85.0%	77.9%	63.4%	48.6%
1998	1,557	890	57.2%	4.6	87.0%	80.9%	66.0%	49.5%
1999	1,551	826	53.3%	4.3	87.4%	80.9%	66.7%	51.8%
2000	1,432	674	47.1%	4.1	88.1%	83.5%	69.8%	56.3%
2001	1,562	729	46.7%	3.5	86.5%	79.7%	66.8%	55.4%
2002	1,625	691	42.5%	3.6	87.9%	82.8%	71.0%	59.1%
2003	1,588	616	38.8%	2.9	85.4%	80.4%	70.5%	--
2004	1,542	492	31.9%	2.6	88.5%	84.1%	75.0%	--
2005	1,482	435	29.4%	2.4	88.5%	84.6%	75.7%	--
2006	1,308	327	25.0%	2.1	89.6%	85.7%	77.6%	--
2007	1,102	247	22.4%	1.8	89.1%	86.1%	--	--
2008	1,052	213	20.2%	1.3	89.0%	85.6%	--	--
2009	937	164	17.5%	1.2	90.1%	86.9%	--	--
2010	1,106	137	12.4%	0.8	91.8%	89.0%	--	--
2011	914	71	7.8%	0.5	94.3%	--	--	--
TOTAL	36,411	20,889	57.4%	3.3	81.2%	70.9%	55.9%	46.7%

## Section IX – Pediatric Cases

This section provides an overview of pediatric cases including trends, pediatric cases by jurisdiction, sex at birth, and race/ethnicity. Pediatric HIV diagnoses due to perinatal transmission from an HIV-infected mother to her baby have decreased dramatically since the onset of the epidemic in Maryland in the early 1980s.

A few important numbers:

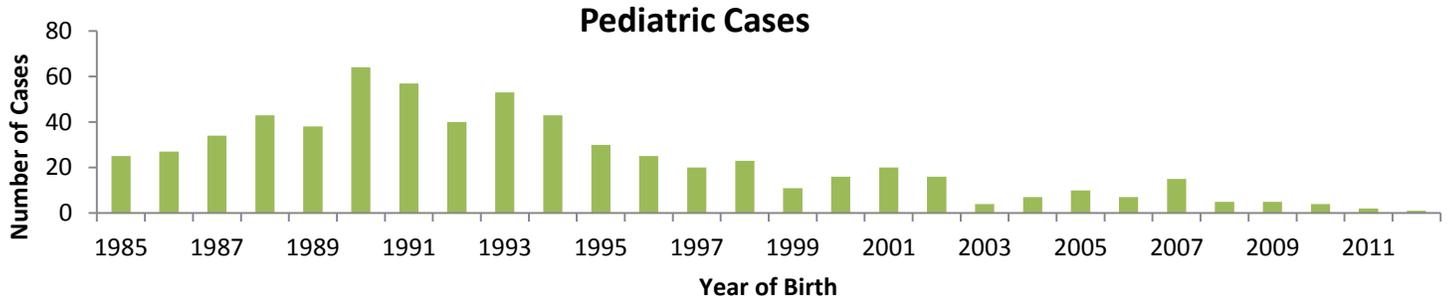
- **59** reported pediatric HIV diagnoses by year of birth prior to 1985
- **25** reported pediatric HIV diagnoses by year of birth in 1985
- **1** reported pediatric HIV diagnosis by year of birth in 2012

A few important facts:

- In 1994, the antiretroviral medication, Zidovudine, was proven to reduce perinatal HIV transmission.
- Women with HIV who take antiretroviral medication during pregnancy as recommended can reduce the risk of transmitting HIV to their babies to less than 1%.
- Today it is recommended that all pregnant women receive at least one HIV test as a standard of care. To further reduce the number of children who are infected with HIV perinatally, CDC recommendations call for routine opt-out HIV testing for all pregnant women, with repeat HIV testing in the third trimester for women who meet certain criteria.

**Figure 11 – Trends in Pediatric HIV Cases, 1985-2012, Reported through 12/31/2013**

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 31<sup>st</sup> of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2012, as Reported by Name through 12/31/2013



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	59	9	2	0	--
1985	25	14	8	2	22
1986	27	15	6	4	33
1987	34	21	14	5	49
1988	43	30	19	6	73
1989	38	34	25	8	99
1990	64	53	23	9	143
1991	57	53	36	13	183
1992	40	60	38	12	230
1993	53	55	35	16	269
1994	43	40	31	16	292
1995	30	30	21	20	302
1996	25	35	23	19	318
1997	20	18	12	6	330
1998	23	20	9	6	344
1999	11	29	14	5	366
2000	16	15	6	0	381
2001	20	14	13	5	389
2002	16	18	11	3	403
2003	4	6	2	6	403
2004	7	10	4	6	407
2005	10	10	5	3	414
2006	7	16	6	4	426
2007	15	57	9	6	477
2008	5	15	10	4	489
2009	5	9	3	1	497
2010	4	4	10	6	497
2011	2	9	9	2	503
2012	1	5	7	2	508
TOTAL	704	704	411	195	--

**Table 24 – Pediatric HIV Diagnoses during 2012 and Pediatric Total Living HIV Cases, Alive on 12/31/2012, by Jurisdiction, Reported through 12/31/2013**

JURISDICTION OF RESIDENCE AT DIAGNOSIS	Pediatric Reported HIV Diagnoses		Pediatric Total Living HIV Cases	
	No.	% of Total	No.	% of Total
Allegany	0	0.0%	3	0.6%
Anne Arundel	0	0.0%	19	3.7%
Baltimore City	2	40.0%	238	46.9%
Baltimore	0	0.0%	52	10.2%
Calvert	0	0.0%	2	0.4%
Caroline	0	0.0%	1	0.2%
Carroll	0	0.0%	4	0.8%
Cecil	0	0.0%	3	0.6%
Charles	0	0.0%	3	0.6%
Dorchester	0	0.0%	4	0.8%
Frederick	0	0.0%	5	1.0%
Garrett	0	0.0%	0	0.0%
Harford	0	0.0%	12	2.4%
Howard	0	0.0%	6	1.2%
Kent	0	0.0%	1	0.2%
Montgomery	0	0.0%	42	8.3%
Prince George's	2	40.0%	99	19.5%
Queen Anne's	0	0.0%	0	0.0%
Saint Mary's	1	20.0%	2	0.4%
Somerset	0	0.0%	1	0.2%
Talbot	0	0.0%	2	0.4%
Washington	0	0.0%	4	0.8%
Wicomico	0	0.0%	1	0.2%
Worcester	0	0.0%	2	0.4%
Corrections	0	0.0%	2	0.4%
TOTAL	5	100.0%	508	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 31<sup>st</sup> of the specified year.

**Table 25 – Pediatric HIV Diagnosis during 2012 and Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2012 and Reported through 12/31/2013**

SEX AT BIRTH	Pediatric Reported HIV Diagnoses		Pediatric Total Living HIV Cases	
	No.	% of Total	No.	% of Total
Male	1	20.0%	230	45.3%
Female	4	80.0%	278	54.7%
TOTAL	5	100.0%	508	100.0%

RACE/ETHNICITY	Pediatric Reported HIV Diagnoses		Pediatric Total Living HIV Cases	
	No.	% of Total	No.	% of Total
Hispanic	0	0.0%	11	2.2%
Non-Hispanic	5	100.0%	497	97.8%
American Indian/ Alaska Native, only	0	0.0%	1	0.2%
Asian, only	0	0.0%	2	0.4%
Black, only	5	100.0%	434	87.3%
Native Hawaiian/Other Pacific Islander, only	0	0.0%	0	0.0%
White, only	0	0.0%	47	9.5%
Multiracial/Other	0	0.0%	13	2.6%
TOTAL	5	100.0%	508	100.0%

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

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

**Table 26 – Perinatal HIV Transmissions by Year of Birth, 2005-2012**

YEAR OF BIRTH	Live Births	Women of Childbearing Age Total Living HIV Cases	Reported Perinatal HIV Exposures	Confirmed Perinatal HIV Transmissions	Perinatal HIV Transmission Rate
	No.	No.	No.	No.	%
2005	74,880	6,437	140	4	2.9%
2006	77,430	6,784	178	4	2.3%
2007	78,057	7,144	176	6	3.4%
2008	77,268	7,368	206	6	2.9%
2009	74,999	7,351	171	3	1.8%
2010	73,783	7,216	129*	2	1.6%
2011	73,052	6,763	122*	1	0.9%
2012	72,751	7,917	120*	1	0.8%
TOTAL	529,469	--	1,242	26	2.1%

\*2010-2012 reported perinatal HIV exposure and confirmed perinatal HIV transmissions data are preliminary.

Live births from [Maryland Vital Statistics Annual Report 2012](#).

Women of childbearing age (ages 13-49) total living HIV cases and reported perinatal HIV exposures from [Maryland Enhanced HIV/AIDS Reporting System, December 31, 2013](#).

Confirmed perinatal HIV transmissions from [Maryland Enhanced Perinatal Surveillance System, December 31, 2013](#).

**Live Births:** Babies born alive in the general population.

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

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

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

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

## 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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.

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

**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.

**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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 31<sup>st</sup> 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 7/1/2012.

**Population Age 13+:** Population age 13 years or older, estimate for 7/1/2012.

**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 31<sup>st</sup> of the specified year.

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

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