

Maryland HIV/AIDS Epidemiological Profile

Fourth Quarter 2012

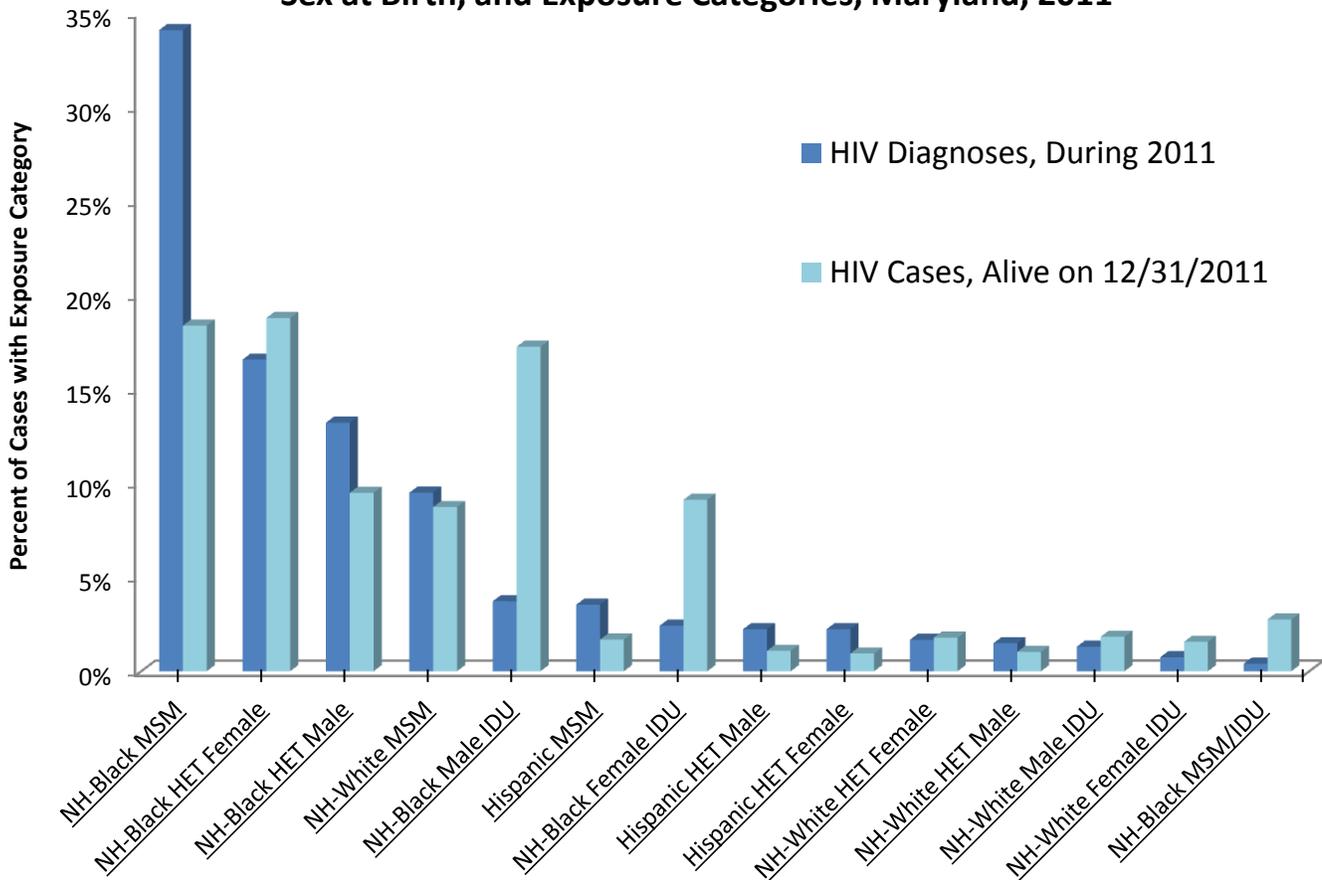
Data reported through December 31, 2012



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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Adult/Adolescent HIV Cases with Reported Exposures by Race/Ethnicity, Sex at Birth, and Exposure Categories, Maryland, 2011



Predominant HIV Risk Groups:

In order to reduce HIV transmissions and improve engagement in care for those infected with HIV, an understanding of the demographic and exposure categories among reported HIV cases is needed to identify the groups most likely to have HIV. In 2011, non-Hispanic (NH) Black males who have sex with males (MSM) accounted for the greatest proportion of new HIV diagnoses (34.1%) followed by NH-Black heterosexual (HET) females (16.6%) and NH-Black heterosexual males (13.2%). This is markedly different from the proportions of living HIV cases where the largest group was NH-Black heterosexual females (18.8%), followed closely by NH-Black MSM (18.4%) and NH-Black male injection drug users (IDU) (17.3%). By identifying the disproportion in the demographic and exposure categories between new and existing HIV cases, resources may be better allocated for prevention, testing, and treatment services.

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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 18% 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. 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.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

For surveillance purposes, 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, or 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 have been 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 2011 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2011-12/31/2011, as reported by name through 12/31/2012.

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 12/31/2011 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2011 as reported by name through 12/31/2012.

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, 2012.

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, 2012.

Population data by sex, age, and race are from the July 1, 2011 U.S. Census Estimates and by country-of-birth from the 2011 American Community Survey (note the difference in total population due to different source). Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Tabulation of Column Totals

Figures in tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

On-line Mapping Tool

Please visit the Maryland Department of Health and Mental Hygiene's website at <http://phpa.dhmh.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 Transmission: Any baby born to an HIV positive mother.

Glossary of Terms

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

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

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

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

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

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

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

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

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

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

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 31st of the specified year.

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

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

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median: The measure of central location which divides a set of data into two equal parts.

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

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

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 400 copies per milliliter or greater.

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

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

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

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

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

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

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

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 400 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 7/1/2011.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2011.

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

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

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

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

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

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

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

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

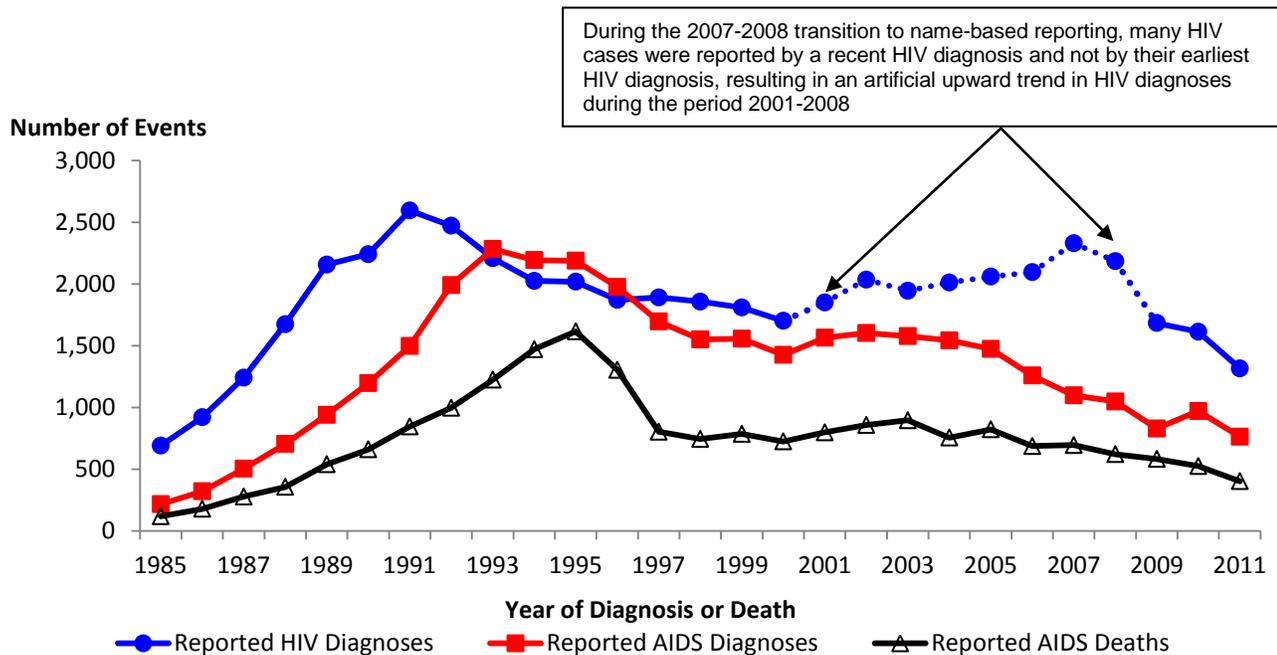
Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

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

Section II – Trends 1985-2011

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2011, Reported through 12/31/2012

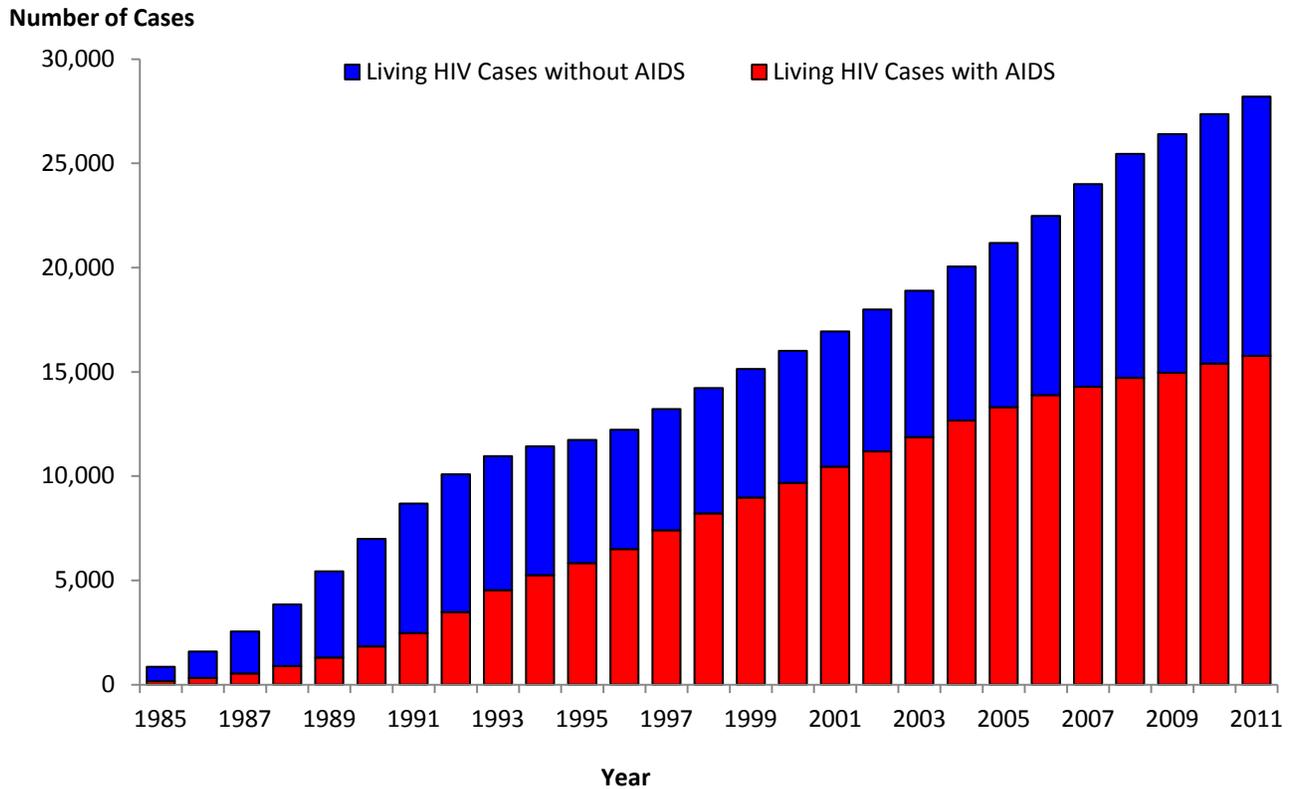
Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2011 as Reported through 12/31/2012



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	345	144	72	1998	1,858	1,552	746
1985	692	218	120	1999	1,811	1,558	787
1986	922	322	180	2000	1,703	1,427	726
1987	1,242	505	279	2001	1,851	1,566	799
1988	1,675	706	358	2002	2,036	1,604	859
1989	2,158	941	541	2003	1,946	1,579	897
1990	2,242	1,198	662	2004	2,013	1,544	757
1991	2,596	1,499	847	2005	2,061	1,475	824
1992	2,473	1,992	998	2006	2,097	1,260	688
1993	2,210	2,285	1,226	2007	2,331	1,099	696
1994	2,026	2,195	1,472	2008	2,186	1,049	623
1995	2,020	2,190	1,617	2009	1,685	830	584
1996	1,872	1,977	1,305	2010	1,614	972	526
1997	1,892	1,698	804	2011	1,317	764	404
				TOTAL	50,874	36,149	20,397

Figure 2 – Trends in Living HIV Cases, 1985-2011, Reported through 12/31/2012

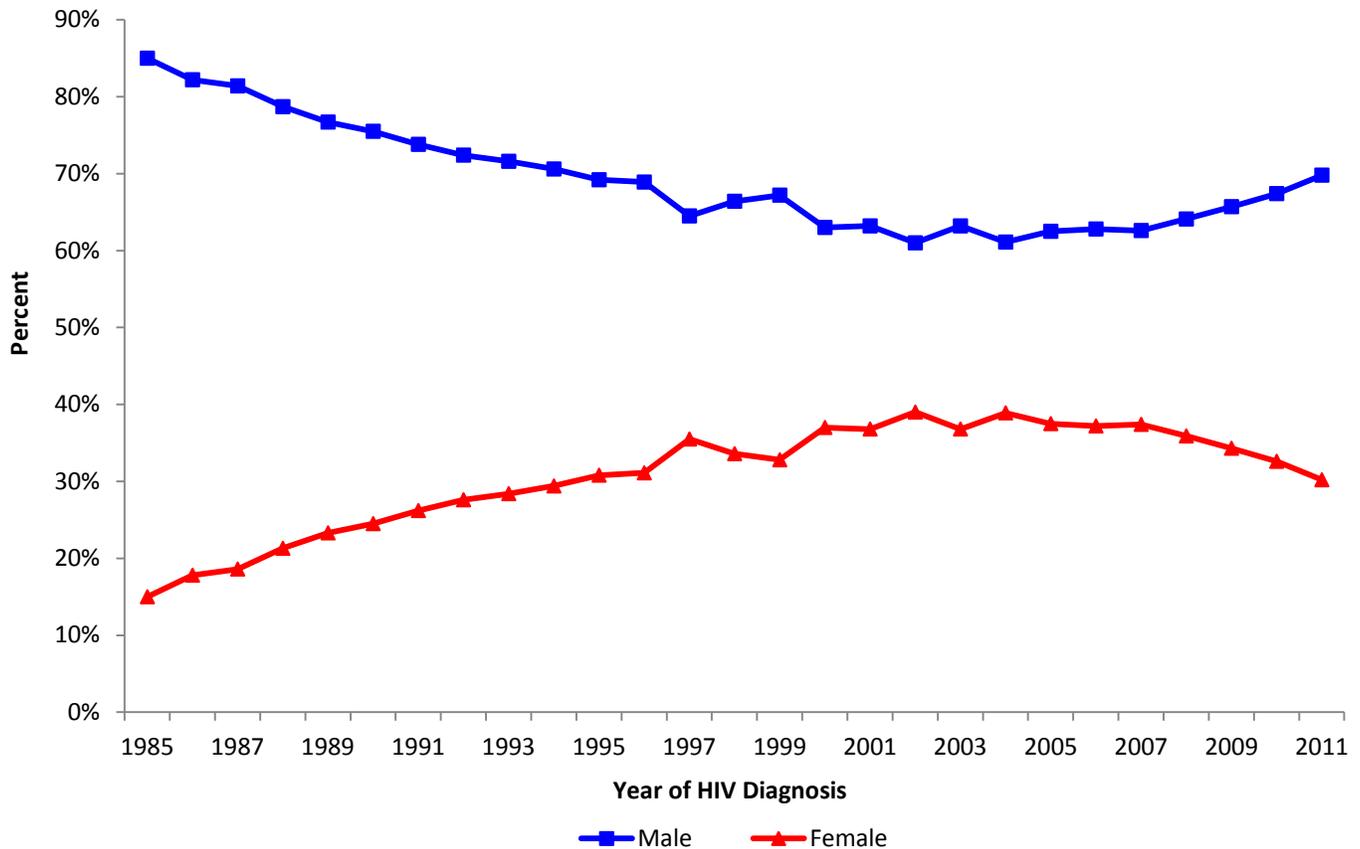
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2011, as Reported through 12/31/2012



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	680	170	850	1998	6,017	8,202	14,219
1986	1,276	312	1,588	1999	6,161	8,973	15,134
1987	2,006	539	2,545	2000	6,335	9,674	16,009
1988	2,960	887	3,847	2001	6,496	10,442	16,938
1989	4,141	1,287	5,428	2002	6,800	11,187	17,987
1990	5,156	1,823	6,979	2003	7,021	11,869	18,890
1991	6,211	2,475	8,686	2004	7,394	12,656	20,050
1992	6,609	3,469	10,078	2005	7,875	13,307	21,182
1993	6,422	4,528	10,950	2006	8,595	13,879	22,474
1994	6,175	5,253	11,428	2007	9,713	14,282	23,995
1995	5,904	5,828	11,732	2008	10,732	14,708	25,440
1996	5,710	6,502	12,212	2009	11,434	14,954	26,388
1997	5,807	7,396	13,203	2010	11,957	15,400	27,357
				2011	12,437	15,760	28,197

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2011, Reported through 12/31/2012

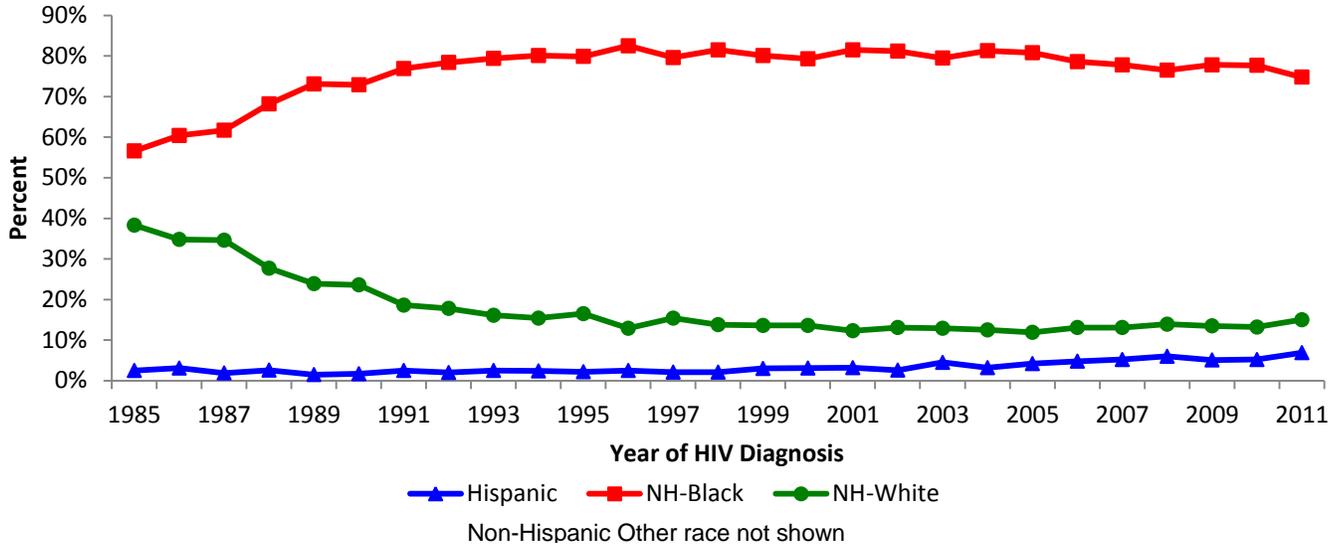
Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2011, as Reported through 12/31/2012



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	339	87.9%	12.1%	1998	1,839	66.4%	33.6%
1985	678	85.0%	15.0%	1999	1,783	67.2%	32.8%
1986	907	82.2%	17.8%	2000	1,690	63.0%	37.0%
1987	1,221	81.4%	18.6%	2001	1,836	63.2%	36.8%
1988	1,646	78.7%	21.3%	2002	2,020	61.0%	39.0%
1989	2,124	76.7%	23.3%	2003	1,941	63.2%	36.8%
1990	2,190	75.5%	24.5%	2004	2,003	61.1%	38.9%
1991	2,543	73.8%	26.2%	2005	2,051	62.5%	37.5%
1992	2,413	72.4%	27.6%	2006	2,080	62.8%	37.2%
1993	2,155	71.6%	28.4%	2007	2,275	62.6%	37.4%
1994	1,986	70.6%	29.4%	2008	2,171	64.1%	35.9%
1995	1,991	69.2%	30.8%	2009	1,677	65.7%	34.3%
1996	1,840	68.9%	31.1%	2010	1,610	67.4%	32.6%
1997	1,877	64.5%	35.5%	2011	1,311	69.8%	30.2%
				TOTAL	50,197	68.6%	31.4%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2011, Reported through 12/31/2012

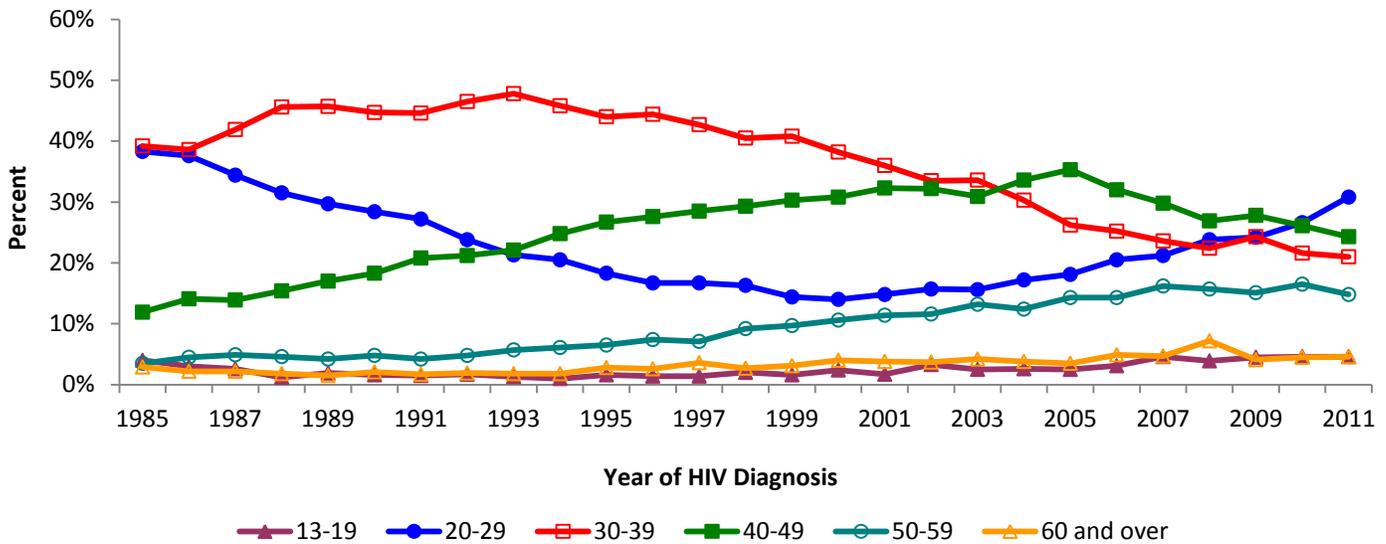
Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2011, as Reported through 12/31/2012



YEAR OF HIV DIAGNOSIS	Adult/Adolescent Reported HIV Diagnoses				
	No.	% Hispanic	% Non-Hispanic Black, only	% Non-Hispanic White, only	% Non-Hispanic Other Race
<1985	339	2.1%	56.6%	39.8%	1.5%
1985	678	2.5%	56.6%	38.3%	2.5%
1986	907	3.1%	60.4%	34.8%	1.7%
1987	1,221	1.9%	61.7%	34.6%	1.9%
1988	1,646	2.6%	68.2%	27.7%	1.6%
1989	2,124	1.5%	73.1%	23.9%	1.6%
1990	2,190	1.7%	72.9%	23.6%	1.7%
1991	2,543	2.5%	76.9%	18.6%	2.0%
1992	2,413	2.0%	78.4%	17.8%	1.8%
1993	2,155	2.5%	79.4%	16.1%	2.0%
1994	1,986	2.4%	80.1%	15.4%	2.1%
1995	1,991	2.2%	79.9%	16.5%	1.5%
1996	1,840	2.5%	82.5%	12.9%	2.1%
1997	1,877	2.1%	79.6%	15.4%	2.8%
1998	1,839	2.1%	81.5%	13.8%	2.6%
1999	1,783	3.0%	80.1%	13.6%	3.3%
2000	1,690	3.1%	79.3%	13.6%	4.0%
2001	1,836	3.2%	81.5%	12.3%	3.0%
2002	2,020	2.6%	81.2%	13.1%	3.1%
2003	1,941	4.5%	79.5%	12.9%	3.0%
2004	2,003	3.2%	81.3%	12.5%	3.0%
2005	2,051	4.2%	80.8%	11.9%	3.1%
2006	2,080	4.8%	78.6%	13.1%	3.5%
2007	2,275	5.2%	77.8%	13.1%	3.9%
2008	2,171	6.0%	76.5%	13.9%	3.5%
2009	1,677	5.1%	77.8%	13.5%	3.6%
2010	1,610	5.2%	77.7%	13.2%	4.0%
2011	1,311	6.9%	74.8%	15.0%	3.4%
TOTAL	50,197	3.3%	77.2%	16.9%	2.7%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2011, Reported through 12/31/2012

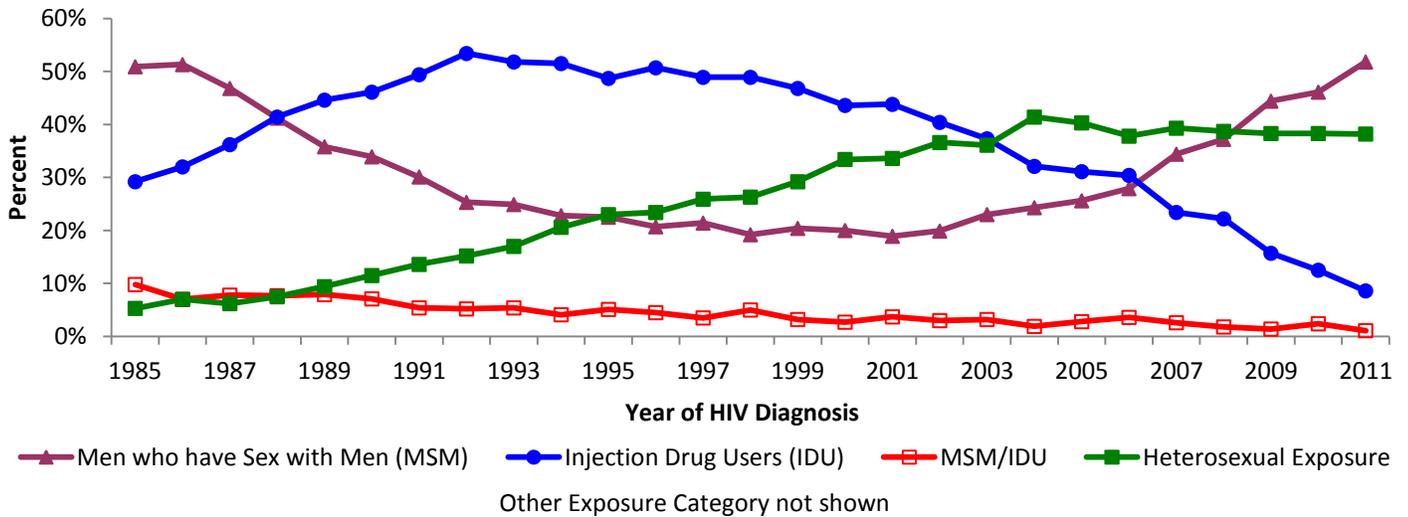
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2011, as Reported through 12/31/2012



YEAR OF HIV DIAGNOSIS	Reported Adult/Adolescent HIV Diagnoses						
	No.	% Age 13-19	% Age 20-29	% Age 30-39	% Age 40-49	% Age 50-59	% Age 60+
<1985	339	6.5%	40.7%	31.0%	15.3%	5.3%	1.2%
1985	678	4.0%	38.3%	39.2%	11.9%	3.5%	2.9%
1986	907	3.0%	37.6%	38.6%	14.1%	4.5%	2.2%
1987	1,221	2.6%	34.4%	41.9%	13.9%	4.9%	2.2%
1988	1,646	1.2%	31.5%	45.6%	15.4%	4.6%	1.8%
1989	2,124	1.9%	29.7%	45.7%	17.0%	4.2%	1.5%
1990	2,190	1.6%	28.4%	44.7%	18.3%	4.8%	2.1%
1991	2,543	1.5%	27.2%	44.6%	20.8%	4.2%	1.7%
1992	2,413	1.7%	23.8%	46.5%	21.2%	4.8%	1.9%
1993	2,155	1.3%	21.3%	47.8%	22.1%	5.7%	1.8%
1994	1,986	1.0%	20.5%	45.8%	24.8%	6.1%	1.8%
1995	1,991	1.6%	18.3%	44.0%	26.7%	6.5%	2.8%
1996	1,840	1.4%	16.7%	44.4%	27.6%	7.4%	2.6%
1997	1,877	1.4%	16.7%	42.7%	28.5%	7.1%	3.6%
1998	1,839	2.0%	16.3%	40.5%	29.3%	9.2%	2.7%
1999	1,783	1.6%	14.4%	40.8%	30.3%	9.7%	3.1%
2000	1,690	2.4%	14.0%	38.2%	30.8%	10.6%	4.0%
2001	1,836	1.7%	14.8%	36.0%	32.3%	11.4%	3.8%
2002	2,020	3.3%	15.7%	33.5%	32.2%	11.6%	3.7%
2003	1,941	2.5%	15.6%	33.6%	30.9%	13.2%	4.2%
2004	2,003	2.6%	17.2%	30.3%	33.6%	12.4%	3.8%
2005	2,051	2.5%	18.1%	26.2%	35.3%	14.3%	3.5%
2006	2,080	3.1%	20.5%	25.2%	32.0%	14.3%	4.9%
2007	2,275	4.6%	21.2%	23.6%	29.8%	16.2%	4.7%
2008	2,171	3.9%	23.8%	22.4%	26.9%	15.7%	7.2%
2009	1,677	4.5%	24.2%	24.3%	27.8%	15.1%	4.1%
2010	1,610	4.6%	26.6%	21.6%	26.1%	16.5%	4.5%
2011	1,311	4.6%	30.8%	21.0%	24.3%	14.8%	4.6%
TOTAL	50,197	2.5%	22.1%	36.8%	25.9%	9.5%	3.2%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2011, Reported through 12/31/2012

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 2011, as Reported through 12/31/2012



YEAR	Adult/Adolescent Reported HIV Diagnoses						
	No.	With Exposure Category					% Other Exposure
		No.	% MSM	% IDU	% MSM/IDU	% HET	
<1985	339	320	59.4%	24.7%	6.9%	5.0%	4.1%
1985	678	643	50.9%	29.2%	9.8%	5.3%	4.8%
1986	907	876	51.3%	32.0%	7.0%	7.0%	2.9%
1987	1,221	1,174	46.8%	36.2%	7.8%	6.2%	3.0%
1988	1,646	1,581	41.2%	41.4%	7.7%	7.5%	2.1%
1989	2,124	2,034	35.8%	44.6%	7.9%	9.4%	2.3%
1990	2,190	2,085	33.9%	46.1%	7.1%	11.5%	1.5%
1991	2,543	2,394	30.1%	49.4%	5.4%	13.6%	1.5%
1992	2,413	2,241	25.3%	53.4%	5.2%	15.2%	0.8%
1993	2,155	2,028	24.9%	51.8%	5.4%	17.0%	1.0%
1994	1,986	1,865	22.8%	51.5%	4.1%	20.6%	1.0%
1995	1,991	1,841	22.5%	48.7%	5.1%	23.0%	0.8%
1996	1,840	1,678	20.7%	50.7%	4.5%	23.4%	0.8%
1997	1,877	1,671	21.4%	48.9%	3.5%	25.9%	0.4%
1998	1,839	1,614	19.2%	48.9%	5.0%	26.3%	0.6%
1999	1,783	1,536	20.4%	46.8%	3.2%	29.2%	0.4%
2000	1,690	1,450	20.0%	43.6%	2.7%	33.4%	0.3%
2001	1,836	1,561	18.9%	43.8%	3.7%	33.6%	0.1%
2002	2,020	1,690	19.9%	40.4%	3.0%	36.6%	0.2%
2003	1,941	1,666	23.0%	37.3%	3.2%	36.1%	0.3%
2004	2,003	1,623	24.3%	32.1%	1.9%	41.4%	0.3%
2005	2,051	1,544	25.6%	31.1%	2.8%	40.3%	0.1%
2006	2,080	1,449	27.9%	30.4%	3.6%	37.8%	0.4%
2007	2,275	1,400	34.4%	23.4%	2.6%	39.3%	0.3%
2008	2,171	1,195	37.2%	22.2%	1.8%	38.7%	0.2%
2009	1,677	798	44.4%	15.7%	1.4%	38.3%	0.3%
2010	1,610	666	46.1%	12.5%	2.4%	38.3%	0.8%
2011	1,311	537	51.8%	8.6%	1.1%	38.2%	0.4%
TOTAL	50,197	41,160	29.0%	41.0%	4.5%	24.5%	1.0%

Section III – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2011, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 12/31/2012

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	First CD4 Test Result			% Linked to Care	% Late HIV Diagnosis
					No. with Test	% with Test	Median Count		
Allegany	65,425	3	0.2%	4.6	***	***	***	***	***
Anne Arundel	454,211	48	3.7%	10.6	40	83.3%	198	81.3%	45.8%
Baltimore City	520,768	424	32.3%	81.4	322	75.9%	362	71.5%	26.4%
Baltimore	684,439	149	11.4%	21.8	121	81.2%	335	73.2%	28.2%
Calvert	74,035	10	0.8%	13.5	9	90.0%	262	80.0%	20.0%
Caroline	27,145	6	0.5%	22.1	4	66.7%	***	66.7%	33.3%
Carroll	140,329	3	0.2%	2.1	***	***	***	***	***
Cecil	84,250	6	0.5%	7.1	4	66.7%	***	50.0%	33.3%
Charles	122,835	15	1.1%	12.2	10	66.7%	284	66.7%	46.7%
Dorchester	27,557	8	0.6%	29.0	6	75.0%	226	37.5%	37.5%
Frederick	195,682	9	0.7%	4.6	5	55.6%	103	55.6%	44.4%
Garrett	25,709	0	0.0%	0.0	--	--	--	--	--
Harford	205,356	24	1.8%	11.7	17	70.8%	398	70.8%	29.2%
Howard	241,940	28	2.1%	11.6	19	67.9%	486	67.9%	7.1%
Kent	17,677	2	0.2%	11.3	***	***	***	***	***
Montgomery	821,218	147	11.2%	17.9	117	79.6%	324	61.2%	32.7%
Prince George's	723,543	332	25.3%	45.9	247	74.4%	288	65.7%	37.0%
Queen Anne's	40,551	3	0.2%	7.4	***	***	***	***	***
Saint Mary's	87,631	4	0.3%	4.6	***	***	***	***	***
Somerset	23,135	3	0.2%	13.0	***	***	***	***	***
Talbot	32,902	5	0.4%	15.2	4	80.0%	***	60.0%	60.0%
Washington	124,366	17	1.3%	13.7	16	94.1%	286	82.4%	58.8%
Wicomico	83,166	11	0.8%	13.2	10	90.9%	250	90.9%	45.5%
Worcester	45,100	6	0.5%	13.3	6	100.0%	341	66.7%	66.7%
Corrections	--	48	3.7%	--	41	85.4%	396	81.3%	25.0%
TOTAL	4,868,970	1,311	100.0%	26.9	1,013	77.3%	335	69.7%	31.9%

*** 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 7/1/2011.

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.

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 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 2 – Adult/Adolescent AIDS Diagnoses during 2011, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 12/31/2012

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	65,425	1	0.1%	1.5	***	***
Anne Arundel	454,211	40	5.3%	8.8	2.4	57.5%
Baltimore City	520,768	303	39.9%	58.2	4.9	37.0%
Baltimore	684,439	81	10.7%	11.8	3.9	53.1%
Calvert	74,035	1	0.1%	1.4	***	***
Caroline	27,145	4	0.5%	14.7	***	***
Carroll	140,329	2	0.3%	1.4	***	***
Cecil	84,250	2	0.3%	2.4	***	***
Charles	122,835	9	1.2%	7.3	3.4	66.7%
Dorchester	27,557	3	0.4%	10.9	***	***
Frederick	195,682	4	0.5%	2.0	***	***
Garrett	25,709	0	0.0%	0.0	--	--
Harford	205,356	11	1.4%	5.4	3.7	54.5%
Howard	241,940	4	0.5%	1.7	***	***
Kent	17,677	0	0.0%	0.0	--	--
Montgomery	821,218	57	7.5%	6.9	1.7	73.7%
Prince George's	723,543	172	22.7%	23.8	2.3	65.1%
Queen Anne's	40,551	4	0.5%	9.9	***	***
Saint Mary's	87,631	3	0.4%	3.4	***	***
Somerset	23,135	2	0.3%	8.6	***	***
Talbot	32,902	3	0.4%	9.1	***	***
Washington	124,366	11	1.4%	8.8	3.5	63.6%
Wicomico	83,166	12	1.6%	14.4	4.5	50.0%
Worcester	45,100	4	0.5%	8.9	***	***
Corrections	--	26	3.4%	--	6.1	46.2%
TOTAL	4,868,970	759	100.0%	15.6	3.7	52.3%

*** 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 7/1/2011.

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 12/31/2011, by Jurisdiction, Reported through 12/31/2012

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	65,425	34	0.3%	52.0	34	0.2%	52.0	68	0.2%	103.9	962
Anne Arundel	454,211	390	3.2%	85.9	566	3.6%	124.6	956	3.5%	210.5	475
Baltimore City	520,768	5,333	43.8%	1,024.1	6,739	43.3%	1,294.1	12,072	43.6%	2,318.1	43
Baltimore	684,439	979	8.0%	143.0	1,317	8.5%	192.4	2,296	8.3%	335.5	298
Calvert	74,035	46	0.4%	62.1	52	0.3%	70.2	98	0.4%	132.4	755
Caroline	27,145	29	0.2%	106.8	29	0.2%	106.8	58	0.2%	213.7	468
Carroll	140,329	52	0.4%	37.1	60	0.4%	42.8	112	0.4%	79.8	1,252
Cecil	84,250	45	0.4%	53.4	56	0.4%	66.5	101	0.4%	119.9	834
Charles	122,835	145	1.2%	118.0	142	0.9%	115.6	287	1.0%	233.6	427
Dorchester	27,557	34	0.3%	123.4	71	0.5%	257.6	105	0.4%	381.0	262
Frederick	195,682	119	1.0%	60.8	138	0.9%	70.5	257	0.9%	131.3	761
Garrett	25,709	3	0.0%	11.7	4	0.0%	15.6	7	0.0%	27.2	3,672
Harford	205,356	151	1.2%	73.5	203	1.3%	98.9	354	1.3%	172.4	580
Howard	241,940	199	1.6%	82.3	204	1.3%	84.3	403	1.5%	166.6	600
Kent	17,677	13	0.1%	73.5	18	0.1%	101.8	31	0.1%	175.4	570
Montgomery	821,218	1,269	10.4%	154.5	1,664	10.7%	202.6	2,933	10.6%	357.2	279
Prince George's	723,543	2,425	19.9%	335.2	2,927	18.8%	404.5	5,352	19.3%	739.7	135
Queen Anne's	40,551	14	0.1%	34.5	32	0.2%	78.9	46	0.2%	113.4	881
Saint Mary's	87,631	39	0.3%	44.5	55	0.4%	62.8	94	0.3%	107.3	932
Somerset	23,135	18	0.1%	77.8	27	0.2%	116.7	45	0.2%	194.5	514
Talbot	32,902	24	0.2%	72.9	30	0.2%	91.2	54	0.2%	164.1	609
Washington	124,366	158	1.3%	127.0	129	0.8%	103.7	287	1.0%	230.8	433
Wicomico	83,166	90	0.7%	108.2	99	0.6%	119.0	189	0.7%	227.3	440
Worcester	45,100	33	0.3%	73.2	45	0.3%	99.8	78	0.3%	172.9	578
Corrections	--	520	4.3%	--	907	5.8%	--	1,427	5.1%	--	--
TOTAL	4,868,970	12,162	100.0%	249.8	15,548	100.0%	319.3	27,710	100.0%	569.1	175

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 7/1/2011.

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

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

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

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

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2011, Reported through 12/31/2012

JURISDICTION OF RESIDENCE AT DIAGNOSIS	Adult/Adolescent Total Living HIV Cases								
	No.	Recent CD4 Test Result						350-499	500+
		No. with Test	% with Test	Median Count	<200	200-349			
Allegany	68	44	64.7%	561	9.1%	9.1%	27.3%	54.5%	
Anne Arundel	956	412	43.1%	450	17.0%	19.4%	19.2%	44.4%	
Baltimore City	12,072	5,905	48.9%	444	17.7%	18.8%	20.8%	42.7%	
Baltimore	2,296	1,047	45.6%	452	16.7%	19.2%	20.1%	44.0%	
Calvert	98	40	40.8%	457	15.0%	17.5%	20.0%	47.5%	
Caroline	58	22	37.9%	468	18.2%	18.2%	18.2%	45.5%	
Carroll	112	40	35.7%	471	10.0%	12.5%	30.0%	47.5%	
Cecil	101	30	29.7%	430	13.3%	13.3%	30.0%	43.3%	
Charles	287	97	33.8%	473	16.5%	17.5%	19.6%	46.4%	
Dorchester	105	45	42.9%	424	17.8%	26.7%	17.8%	37.8%	
Frederick	257	96	37.4%	488	15.6%	14.6%	20.8%	49.0%	
Garrett	7	1	14.3%	***	***	***	***	***	
Harford	354	137	38.7%	438	19.0%	19.7%	17.5%	43.8%	
Howard	403	149	37.0%	584	11.4%	16.1%	14.1%	58.4%	
Kent	31	8	25.8%	381	***	***	***	***	
Montgomery	2,933	938	32.0%	481	13.4%	17.1%	23.7%	45.8%	
Prince George's	5,352	1,863	34.8%	432	20.4%	17.1%	21.1%	41.3%	
Queen Anne's	46	26	56.5%	373	15.4%	34.6%	7.7%	42.3%	
Saint Mary's	94	27	28.7%	521	22.2%	11.1%	11.1%	55.6%	
Somerset	45	16	35.6%	461	12.5%	25.0%	18.8%	43.8%	
Talbot	54	21	38.9%	584	19.0%	9.5%	9.5%	61.9%	
Washington	287	138	48.1%	495	13.8%	17.4%	18.8%	50.0%	
Wicomico	189	76	40.2%	400	34.2%	10.5%	18.4%	36.8%	
Worcester	78	33	42.3%	440	30.3%	9.1%	21.2%	39.4%	
Corrections	1,427	739	51.8%	423	19.6%	19.1%	20.7%	40.6%	
TOTAL	27,710	11,950	43.1%	447	17.7%	18.3%	20.8%	43.2%	

*** 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 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

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

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

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2011, by Jurisdiction, Reported through 12/31/2012

JURISDICTION OF RESIDENCE AT DIAGNOSIS	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Allegany	68	46	67.6%	73.9%	18,906
Anne Arundel	956	362	37.9%	66.6%	13,343
Baltimore City	12,072	4,952	41.0%	64.6%	13,603
Baltimore	2,296	955	41.6%	69.8%	12,296
Calvert	98	37	37.8%	73.0%	40,145
Caroline	58	22	37.9%	50.0%	16,080
Carroll	112	46	41.1%	78.3%	4,139
Cecil	101	19	18.8%	57.9%	4,229
Charles	287	93	32.4%	65.6%	3,784
Dorchester	105	40	38.1%	72.5%	44,430
Frederick	257	82	31.9%	81.7%	37,561
Garrett	7	1	14.3%	***	***
Harford	354	148	41.8%	71.6%	7,736
Howard	403	149	37.0%	77.9%	10,214
Kent	31	7	22.6%	***	***
Montgomery	2,933	933	31.8%	79.1%	13,725
Prince George's	5,352	1,873	35.0%	70.2%	20,268
Queen Anne's	46	22	47.8%	50.0%	5,904
Saint Mary's	94	30	31.9%	76.7%	7,230
Somerset	45	17	37.8%	52.9%	8,164
Talbot	54	19	35.2%	63.2%	42,141
Washington	287	131	45.6%	81.7%	14,614
Wicomico	189	77	40.7%	63.6%	37,080
Worcester	78	27	34.6%	77.8%	5,990
Corrections	1,427	664	46.5%	64.6%	8,690
TOTAL	27,710	10,752	38.8%	68.1%	13,400

*** 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 31st of the specified year.

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

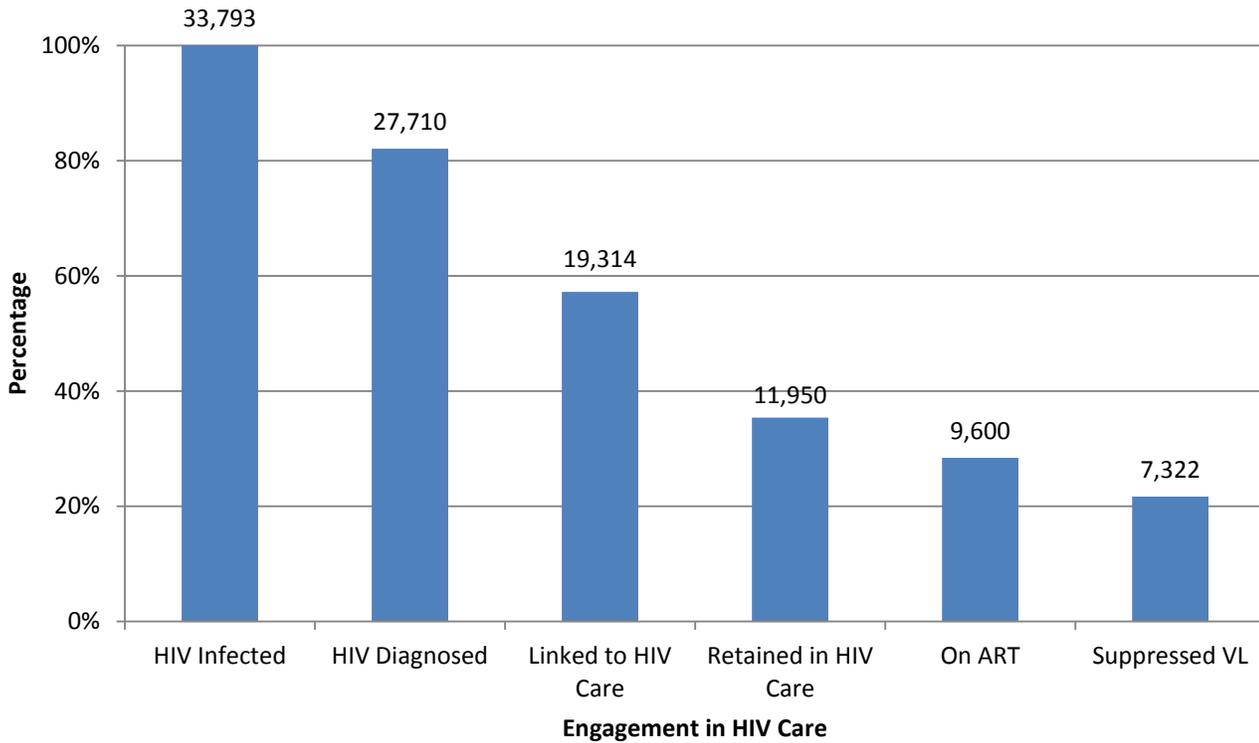
Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 400 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 400 copies per milliliter or greater.

Figure 7 – Estimated Adult/Adolescent 2011 HIV Continuum of Care, Reported through 12/31/2012

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 (18%) 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	33,793	100.0%
HIV Diagnosed	27,710	82.0%
Linked to HIV Care	19,314	57.2%
Retained in HIV Care	11,950	35.4%
On ART	9,600	28.4%
Suppressed VL	7,322	21.7%

HIV Infected: HIV Diagnosed divided by one minus the national estimate of undiagnosed HIV infections (18%).

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

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

Retained in HIV Care: HIV Diagnosed with a CD4 test result reported in the 12 months prior to December 31st 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 31st of the specified year of less than 400 copies per milliliter.

Section IV – Cases by Age

Table 6 – HIV Diagnoses during 2011, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 12/31/2012

AGE AT HIV DIAGNOSIS	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	First CD4 Test Result			% Linked to Care	% Late Diagnosis
					No. with Test	% with Test	Median Count		
<5 (Pediatric)	366,153	2	0.2%	0.5	***	***	***	***	***
5-12 (Pediatric)	593,166	4	0.3%	0.7	***	***	***	***	***
13-19	549,363	60	4.6%	10.9	41	68.3%	404	66.7%	15.0%
20-29	800,985	404	30.7%	50.4	325	80.4%	391	68.1%	22.0%
30-39	746,128	275	20.9%	36.9	219	79.6%	320	68.7%	37.5%
40-49	868,133	318	24.1%	36.6	249	78.3%	268	72.0%	36.8%
50-59	838,152	194	14.7%	23.1	135	69.6%	239	70.6%	38.7%
60+	1,066,209	60	4.6%	5.6	44	73.3%	309	73.3%	41.7%
TOTAL	5,828,289	1,317	100.0%	22.6	1,017	77.2%	335	69.8%	31.8%

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

Table 7 – AIDS Diagnoses during 2011, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 12/31/2012

AGE AT AIDS DIAGNOSIS	Population	Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
<5 (Pediatric)	366,153	1	0.1%	0.3	***	***
5-12 (Pediatric)	593,166	0	0.0%	0.0	--	--
13-19	549,363	15	2.0%	2.7	4.1	***
20-29	800,985	153	20.0%	19.1	2.0	56.9%
30-39	746,128	179	23.4%	24.0	3.4	54.2%
40-49	868,133	222	29.1%	25.6	4.5	49.1%
50-59	838,152	146	19.1%	17.4	4.5	49.3%
60+	1,066,209	48	6.3%	4.5	4.1	54.2%
TOTAL	5,828,289	764	100.0%	13.1	3.7	52.1%

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

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

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

Population: Population estimate for 7/1/2011.

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.

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 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.

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 12/31/2011, by Age on 12/31/2011, Reported through 12/31/2012

AGE ON 12/31/2011	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 (Pediatric)	366,153	23	0.2%	6.3	2	0.0%	0.5	25	0.1%	6.8	14,646
5-12 (Pediatric)	593,166	79	0.6%	13.3	10	0.1%	1.7	89	0.3%	15.0	6,664
13-19	549,363	204	1.6%	37.1	92	0.6%	16.7	296	1.0%	53.9	1,855
20-29	800,985	1,947	15.7%	243.1	834	5.3%	104.1	2,781	9.9%	347.2	288
30-39	746,128	2,506	20.1%	335.9	2,182	13.8%	292.4	4,688	16.6%	628.3	159
40-49	868,133	3,764	30.3%	433.6	5,633	35.7%	648.9	9,397	33.3%	1,082.4	92
50-59	838,152	2,877	23.1%	343.3	5,185	32.9%	618.6	8,062	28.6%	961.9	103
60+	1,066,209	1,037	8.3%	97.3	1,822	11.6%	170.9	2,859	10.1%	268.1	372
TOTAL	5,828,289	12,437	100.0%	213.4	15,760	100.0%	270.4	28,197	100.0%	483.8	206

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

Population: Population estimate for 7/1/2011.

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

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

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

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

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2011, by Age on 12/31/2011, Reported through 12/31/2012

AGE ON 12/31/2011	Adult/Adolescent Total Living HIV Cases								
	No.	Recent CD4 Test Result						350-499	500+
		No. with Test	% with Test	Median Count	<200	200-349			
13-19	115	55	47.8%	417	10.9%	25.5%	29.1%	34.5%	
20-29	2,598	1,224	47.1%	444	15.5%	19.9%	22.1%	42.5%	
30-39	4,681	1,916	40.9%	445	18.6%	17.3%	21.2%	42.8%	
40-49	9,396	3,931	41.8%	439	19.9%	17.7%	19.8%	42.6%	
50-59	8,062	3,633	45.1%	449	17.4%	18.5%	20.5%	43.6%	
60+	2,858	1,191	41.7%	470	12.6%	19.3%	22.1%	46.0%	
TOTAL	27,710	11,950	43.1%	447	17.7%	18.3%	20.8%	43.2%	

Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2011, by Age on 12/31/2011, Reported through 12/31/2012

AGE ON 12/31/2011	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
13-19	115	63	54.8%	28.6%	15,101
20-29	2,598	1,177	45.3%	46.6%	11,697
30-39	4,681	1,788	38.2%	65.1%	14,076
40-49	9,396	3,566	38.0%	69.1%	15,390
50-59	8,062	3,136	38.9%	73.5%	13,044
60+	2,858	1,022	35.8%	80.6%	12,358
TOTAL	27,710	10,752	38.8%	68.1%	13,400

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

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

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

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

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

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

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 400 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 400 copies per milliliter or greater.

Section V – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2011, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2012

SEX AT BIRTH	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	First CD4 Test Result			% Linked to Care	% Late Diagnosis
					No. with Test	% with Test	Median Count		
Male	2,331,513	915	69.8%	39.2	692	75.6%	328	67.9%	31.9%
Female	2,537,457	396	30.2%	15.6	321	81.1%	341	74.0%	31.8%
TOTAL	4,868,970	1,311	100.0%	26.9	1,013	77.3%	335	69.7%	31.9%

RACE/ETHNICITY	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	First CD4 Test Result			% Linked to Care	% Late Diagnosis
					No. with Test	% with Test	Median Count		
Hispanic	371,383	91	6.9%	24.5	74	81.3%	216	74.7%	44.0%
Non-Hispanic	4,497,587	1,220	93.1%	27.1	939	77.0%	341	69.3%	31.0%
American Indian/ Alaska Native, only	12,043	2	0.2%	16.6	***	***	***	***	***
Asian, only	277,469	10	0.8%	3.6	***	***	***	***	***
Black, only	1,393,686	980	74.8%	70.3	739	75.4%	333	67.9%	30.4%
Native Hawaiian/Other Pacific Islander, only	2,377	0	0.0%	0.0	--	--	--	--	--
White, only	2,737,345	196	15.0%	7.2	161	82.1%	384	73.5%	32.1%
Multiracial/Other	74,667	32	2.4%	42.9	29	90.6%	383	87.5%	37.5%
TOTAL	4,868,970	1,311	100.0%	26.9	1,013	77.3%	335	69.7%	31.9%

COUNTRY OF BIRTH	Population Age 13+**	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	First CD4 Test Result			% Linked to Care	% Late Diagnosis
					No. with Test	% with Test	Median Count		
United States	4,050,741	1,034	78.9%	25.7	788	76.2%	342	68.1%	30.6%
Foreign-born	759,128	73	5.6%	9.9	62	84.9%	209	83.6%	57.5%
Africa	--	45	3.4%	--	39	86.7%	320	86.7%	55.6%
Asia	--	2	0.2%	--	***	***	***	***	***
Caribbean	--	6	0.5%	--	5	83.3%	36	83.3%	66.7%
Central America	--	15	1.1%	--	13	86.7%	99	80.0%	73.3%
Other	--	5	0.4%	--	***	***	***	***	***
Unknown	--	204	15.6%	--	163	79.9%	340	73.0%	29.4%
TOTAL	4,809,869	1,311	100.0%	27.5	1,013	77.3%	335	69.7%	31.9%

* Population data by sex at birth, age, and race/ethnicity are from the 2011 U.S. Census

** Population data by country of birth are from the 2011 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 7/1/2011.

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.

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 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 2011, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 12/31/2012

SEX AT BIRTH	Population Age 13+	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Male	2,331,513	498	65.6%	21.4	3.4	55.6%
Female	2,537,457	261	34.4%	10.3	4.2	46.0%
TOTAL	4,868,970	759	100.0%	15.6	3.7	52.3%

RACE/ETHNICITY	Population Age 13+	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Hispanic	371,383	54	7.1%	14.5	1.9	74.1%
Non-Hispanic	4,497,587	705	92.9%	15.7	3.8	50.6%
American Indian/ Alaska Native, only	12,043	2	0.3%	16.6	***	***
Asian, only	277,469	5	0.7%	1.8	0.3	***
Black, only	1,393,686	587	77.3%	42.1	4.0	47.9%
Native Hawaiian/Other Pacific Islander, only	2,377	0	0.0%	0.0	--	--
White, only	2,737,345	86	11.3%	3.1	2.7	66.3%
Multiracial/Other	74,667	25	3.3%	33.5	4.1	52.0%
TOTAL	4,868,970	759	100.0%	15.6	3.7	52.3%

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	4,050,741	643	84.7%	16.0	4.1	46.5%
Foreign-born	759,128	51	6.7%	6.9	1.5	78.4%
Africa	--	28	3.7%	--	1.3	82.1%
Asia	--	3	0.4%	--	***	***
Caribbean	--	5	0.7%	--	1.7	80.0%
Central America	--	14	1.8%	--	1.8	78.6%
Other	--	1	0.1%	--	***	***
Unknown	--	65	8.6%	--	0.7	89.2%
TOTAL	4,809,869	759	100.0%	15.9	3.7	52.3%

* Population data by sex at birth, age, and race/ethnicity are from the 2011 U.S. Census

** Population data by country of birth are from the 2011 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 7/1/2011.

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 12/31/2011 and Reported through 12/31/2012

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	2,331,513	7,595	62.4%	325.8	10,140	65.2%	434.9	17,735	64.0%	760.7	131
Female	2,537,457	4,567	37.6%	180.0	5,408	34.8%	213.1	9,975	36.0%	393.1	254
Total	4,868,970	12,162	100.0%	249.8	15,548	100.0%	319.3	27,710	100.0%	569.1	175

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	371,383	486	4.0%	130.9	765	4.9%	206.0	1,251	4.5%	336.8	296
Non-Hispanic	4,497,587	11,676	96.0%	259.6	14,783	95.1%	328.7	26,459	95.5%	588.3	169
American Indian/Alaska Native, only	12,043	18	0.1%	149.5	8	0.1%	66.4	26	0.1%	215.9	463
Asian, only	277,469	70	0.6%	25.2	49	0.3%	17.7	119	0.4%	42.9	2,331
Black, only	1,393,686	9,356	76.9%	671.3	11,936	76.8%	856.4	21,292	76.8%	1,527.7	65
Native Hawaiian/ Other Pacific Islander, only	2,377	10	0.1%	420.7	8	0.1%	336.6	18	0.1%	757.3	132
White, only	2,737,345	1,955	16.1%	71.4	2,232	14.4%	81.5	4,187	15.1%	153.0	653
Multiracial/Other	74,667	267	2.2%	357.6	550	3.5%	736.6	817	2.9%	1,094.2	91
TOTAL	4,868,970	12,162	100.0%	249.8	15,548	100.0%	319.3	27,710	100.0%	569.1	175

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	4,050,741	11,029	90.7%	273.9	14,014	90.1%	348.1	25,043	90.4%	622.0	160
Foreign-born	759,128	702	5.8%	95.4	1,370	8.8%	186.2	2,072	7.5%	281.7	355
Africa	--	390	3.2%	--	804	5.2%	--	1,194	4.3%	--	--
Asia	--	34	0.3%	--	50	0.3%	--	84	0.3%	--	--
Caribbean	--	53	0.4%	--	124	0.8%	--	177	0.6%	--	--
Central America	--	95	0.8%	--	235	1.5%	--	330	1.2%	--	--
Other	--	130	1.1%	--	157	1.0%	--	287	1.0%	--	--
Unknown	--	431	3.5%	--	164	1.1%	--	595	2.1%	--	--
TOTAL	4,809,869	12,162	100.0%	255.4	15,548	100.0%	326.5	27,710	100.0%	581.9	171

* Population data by sex at birth, age, and race/ethnicity are from the 2011 U.S. Census

** Population data by country of birth are from the 2011 American Community Survey

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2011.

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

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

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

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

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 14 –Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2011 and Reported through 12/31/2012

SEX AT BIRTH	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
Male	17,735	7,511	42.4%	433	18.0%	19.5%	21.5%	41.0%
Female	9,975	4,439	44.5%	476	17.3%	16.2%	19.5%	47.0%
TOTAL	27,710	11,950	43.1%	447	17.7%	18.3%	20.8%	43.2%

RACE/ETHNICITY	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
Hispanic	1,251	523	41.8%	426	18.5%	21.2%	19.7%	40.5%
Non-Hispanic	26,459	11,427	43.2%	448	17.7%	18.1%	20.8%	43.3%
American Indian/ Alaska Native, only	26	5	19.2%	473	***	***	***	***
Asian, only	119	33	27.7%	565	12.1%	9.1%	21.2%	57.6%
Black, only	21,292	9,323	43.8%	441	18.0%	18.5%	21.1%	42.5%
Native Hawaiian/Other Pacific Islander, only	18	3	16.7%	***	***	***	***	***
White, only	4,187	1,544	36.9%	501	14.1%	15.8%	20.0%	50.1%
Multiracial/Other	817	519	63.5%	406	23.5%	19.8%	18.9%	37.8%
TOTAL	27,710	11,950	43.1%	447	17.7%	18.3%	20.8%	43.2%

COUNTRY OF BIRTH	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
United States	25,043	10,799	43.1%	447	18.0%	18.1%	20.5%	43.4%
Foreign-born	2,072	822	39.7%	477	14.0%	17.9%	23.7%	44.4%
Africa	1,194	509	42.6%	476	13.4%	17.9%	25.1%	43.6%
Asia	84	28	33.3%	549	17.9%	7.1%	17.9%	57.1%
Caribbean	177	64	36.2%	507	14.1%	17.2%	17.2%	51.6%
Central America	330	129	39.1%	416	18.6%	21.7%	24.8%	34.9%
Other	287	92	32.1%	522	9.8%	16.3%	20.7%	53.3%
Unknown	595	329	55.3%	400	18.5%	24.0%	22.5%	35.0%
TOTAL	27,710	11,950	43.1%	447	17.7%	18.3%	20.8%	43.2%

*** 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 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

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

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 15 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2011 and Reported through 12/31/2012

SEX AT BIRTH	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	17,735	6,786	38.3%	69.2%	13,744
Female	9,975	3,966	39.8%	66.2%	13,361
TOTAL	27,710	10,752	38.8%	68.1%	13,400

RACE/ETHNICITY	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	1,251	505	40.4%	71.7%	12,913
Non-Hispanic	26,459	10,247	38.7%	67.9%	13,460
American Indian/ Alaska Native, only	26	5	19.2%	***	547,380
Asian, only	119	30	25.2%	73.3%	17,442
Black, only	21,292	8,303	39.0%	66.3%	13,206
Native Hawaiian/ Other Pacific Islander, only	18	4	22.2%	***	***
White, only	4,187	1,459	34.8%	77.6%	15,148
Multiracial/Other	817	446	54.6%	65.5%	17,323
TOTAL	27,710	10,752	38.8%	68.1%	13,400

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	25,043	9,629	38.4%	67.3%	13,629
Foreign-born	2,072	787	38.0%	80.7%	9,177
Africa	1,194	490	41.0%	82.4%	9,425
Asia	84	26	31.0%	76.9%	34,758
Caribbean	177	64	36.2%	70.3%	7,439
Central America	330	120	36.4%	77.5%	13,210
Other	287	87	30.3%	83.9%	2,872
Unknown	595	336	56.5%	62.2%	14,636
TOTAL	27,710	10,752	38.8%	68.1%	13,400

*** 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 31st of the specified year.

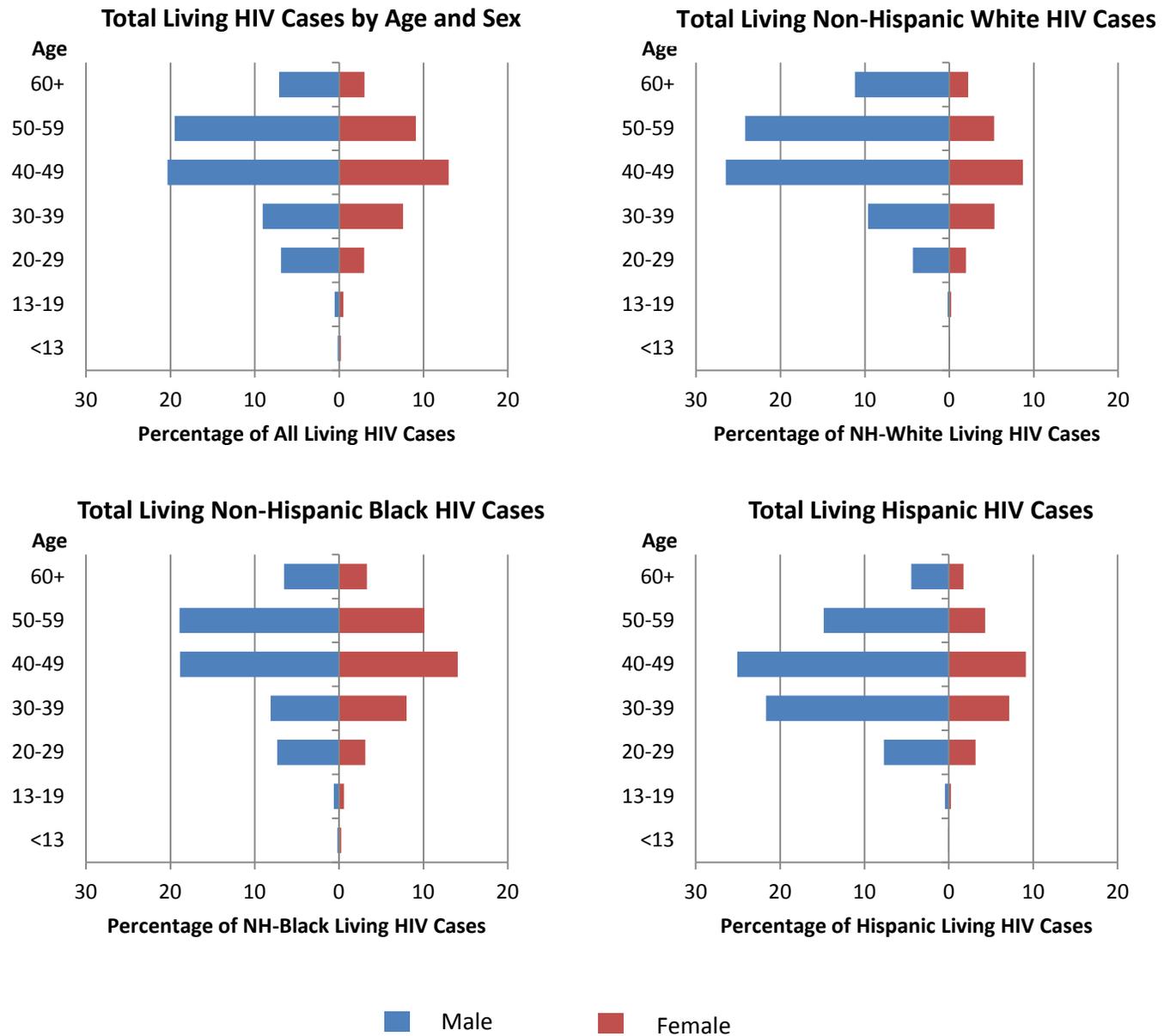
Recent Viral Load Test Result: The most recent viral load test result reported in the 12 months prior to December 31st of the specified year.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 400 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 400 copies per milliliter or greater.

Section VI – HIV Cases by Expanded Demographics

Figure 8 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2011 and Reported through 12/31/2012



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

Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2011 and Reported through 12/31/2012

MALES						
AGE ON 12/31/2011		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	61,027	153,731	221,506	52,798	489,062
	Cases	1	45	4	3	53
	Rate	1.6	29.3	1.8	5.7	10.8
	Ratio (1 in X)	61,027	3,416	55,376	17,599	9,227
13-19	Population	26,830	91,672	138,273	24,459	281,234
	Cases	6	136	8	5	155
	Rate	22.4	148.4	5.8	20.4	55.1
	Ratio (1 in X)	4,471	674	17,284	4,891	1,814
20-29	Population	51,633	118,983	199,744	32,056	402,416
	Cases	97	1,596	183	72	1,948
	Rate	187.9	1,341.4	91.6	224.6	484.1
	Ratio (1 in X)	532	74	1,091	445	206
30-39	Population	51,621	101,762	174,805	33,776	361,964
	Cases	273	1,766	407	112	2,558
	Rate	528.9	1,735.4	232.8	331.6	706.7
	Ratio (1 in X)	189	57	429	301	141
40-49	Population	34,668	120,193	231,758	30,544	417,163
	Cases	316	4,092	1,120	210	5,738
	Rate	911.5	3,404.5	483.3	687.5	1,375.5
	Ratio (1 in X)	109	29	206	145	72
50-59	Population	18,778	103,209	253,213	24,742	399,942
	Cases	187	4,109	1,023	179	5,498
	Rate	995.8	3,981.2	404.0	723.5	1,374.7
	Ratio (1 in X)	100	25	247	138	72
60+	Population	12,296	99,523	330,886	26,088	468,793
	Cases	56	1,417	473	66	2,012
	Rate	455.4	1,423.8	142.9	253.0	429.2
	Ratio (1 in X)	219	70	699	395	232
TOTAL MALES BY RACE/ETHNICITY	Population	256,853	789,073	1,550,185	224,463	2,820,574
	Cases	936	13,161	3,218	647	17,962
	Rate	364.4	1,667.9	207.6	288.2	636.8
	Ratio (1 in X)	274	59	481	346	157

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

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

Population: Population estimate for 7/1/2011.

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 12/31/2011 and Reported through 12/31/2012

FEMALES						
AGE ON 12/31/2011		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic, Other Race	
<13 (Pediatric)	Population	58,306	148,814	210,983	52,155	470,258
	Cases	0	56	3	2	61
	Rate	0.0	37.6	1.4	3.8	13.0
	Ratio (1 in X)	--	2,657	70,327	26,077	7,709
13-19	Population	24,820	89,535	129,827	23,946	268,128
	Cases	3	125	10	3	141
	Rate	12.1	139.6	7.7	12.5	52.6
	Ratio (1 in X)	8,273	716	12,982	7,982	1,901
20-29	Population	41,168	128,646	194,373	34,382	398,569
	Cases	40	675	84	34	833
	Rate	97.2	524.7	43.2	98.9	209.0
	Ratio (1 in X)	1,029	190	2,313	1,011	478
30-39	Population	42,574	122,953	178,885	39,752	384,164
	Cases	90	1,735	226	79	2,130
	Rate	211.4	1,411.1	126.3	198.7	554.5
	Ratio (1 in X)	473	70	791	503	180
40-49	Population	31,050	143,265	240,435	36,220	450,970
	Cases	115	3,053	369	122	3,659
	Rate	370.4	2,131.0	153.5	336.8	811.4
	Ratio (1 in X)	270	46	651	296	123
50-59	Population	19,300	128,403	261,631	28,876	438,210
	Cases	54	2,195	225	90	2,564
	Rate	279.8	1,709.5	86.0	311.7	585.1
	Ratio (1 in X)	357	58	1,162	320	170
60+	Population	16,645	145,543	403,515	31,713	597,416
	Cases	22	714	94	17	847
	Rate	132.2	490.6	23.3	53.6	141.8
	Ratio (1 in X)	756	203	4,292	1,865	705
TOTAL FEMALES BY RACE/ETHNICITY	Population	233,863	907,159	1,619,649	247,044	3,007,715
	Cases	324	8,553	1,011	347	10,235
	Rate	138.5	942.8	62.4	140.5	340.3
	Ratio (1 in X)	721	106	1,602	711	293

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

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

Population: Population estimate for 7/1/2011.

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

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VII – HIV Exposure Category

Table 18 – Adult/Adolescent HIV Diagnoses during 2011, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2012

EXPOSURE CATEGORY	Adult/Adolescent Reported HIV Diagnoses					
	No.	% of Total with Exposure	First CD4 Test Result		% Linked to Care	% Late Diagnosis
			% with Test	Median Count		
With Exposure	537	100.0%	87.9%	352	78.8%	34.1%
Men who have Sex with Men (MSM)	278	51.8%	86.0%	367	77.0%	28.8%
Injection Drug Users (IDU)	46	8.6%	76.1%	359	71.7%	28.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	6	1.1%	83.3%	214	66.7%	66.7%
Heterosexual Exposure (HET)	205	38.2%	93.2%	324	82.9%	41.5%
Other Exposures	2	0.4%	***	***	***	***
No Reported Exposure	774		***	***	***	***
TOTAL	1,311		***	***	***	***

MALES EXPOSURE CATEGORY	Adult/Adolescent Reported HIV Diagnoses					
	No.	% of Total with Exposure	First CD4 Test Result		% Linked to Care	% Late Diagnosis
			% with Test	Median Count		
With Exposure	404	100.0%	85.9%	350	77.5%	34.2%
Men who have Sex with Men (MSM)	278	68.8%	86.0%	367	77.0%	28.8%
Injection Drug Users (IDU)	28	6.9%	75.0%	357	71.4%	32.1%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	6	1.5%	83.3%	214	66.7%	66.7%
Heterosexual Exposure (HET)	92	22.8%	89.1%	282	81.5%	48.9%
Other Exposures	0	0.0%	0.0%		0.0%	0.0%
No Reported Exposure	511		67.5%	313	60.3%	30.1%
TOTAL	915		75.6%	328	67.9%	31.9%

FEMALES EXPOSURE CATEGORY	Adult/Adolescent Reported HIV Diagnoses					
	No.	% of Total with Exposure	First CD4 Test Result		% Linked to Care	% Late Diagnosis
			% with Test	Median Count		
With Exposure	133	100.0%	94.0%	353	82.7%	33.8%
Injection Drug Users (IDU)	18	13.5%	77.8%	389	72.2%	22.2%
Heterosexual Exposure (HET)	113	85.0%	96.5%	353	84.1%	35.4%
Other Exposures	2	1.5%	***	***	***	***
No Reported Exposure	263		***	***	***	***
TOTAL	396		***	***	***	***

*** 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.

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 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 2011, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 12/31/2012

EXPOSURE CATEGORY	Adult/Adolescent Reported AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	429	100.0%	5.1	39.9%
Men who have Sex with Men (MSM)	147	34.3%	3.7	49.0%
Injection Drug Users (IDU)	108	25.2%	8.1	14.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	14	3.3%	6.0	28.6%
Heterosexual Exposure (HET)	157	36.6%	4.2	49.7%
Other Exposures	3	0.7%	***	***
No Reported Exposure	330		1.9	***
TOTAL	759		3.7	***

MALE EXPOSURE CATEGORY	Adult/Adolescent Reported AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	289	100.0%	4.6	43.9%
Men who have Sex with Men (MSM)	147	50.9%	3.7	49.0%
Injection Drug Users (IDU)	62	21.5%	8.1	17.7%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	14	4.8%	6.0	28.6%
Heterosexual Exposure (HET)	64	22.1%	3.2	62.5%
Other Exposures	2	0.7%	***	***
No Reported Exposure	209		1.6	***
TOTAL	498		3.4	***

FEMALE EXPOSURE CATEGORY	Adult/Adolescent Reported AIDS Diagnoses			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure	140	100.0%	5.9	31.4%
Injection Drug Users (IDU)	46	32.9%	8.2	10.9%
Heterosexual Exposure (HET)	93	66.4%	4.9	40.9%
Other Exposures	1	0.7%	***	***
No Reported Exposure	121		2.3	***
TOTAL	261		4.2	***

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

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

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

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal 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 12/31/2011 and Reported through 12/31/2012

EXPOSURE CATEGORY	Adult/Adolescent Living HIV Cases without AIDS		Adult/Adolescent Living HIV Cases with AIDS		Adult/Adolescent Total Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	7,628	100.0%	13,055	100.0%	20,683	100.0%
Men who have Sex with Men (MSM)	2,687	35.2%	3,545	27.2%	6,232	30.1%
Injection Drug Users (IDU)	1,983	26.0%	4,550	34.9%	6,533	31.6%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	214	2.8%	537	4.1%	751	3.6%
Heterosexual Exposure (HET)	2,720	35.7%	4,360	33.4%	7,080	34.2%
Other Exposures	24	0.3%	63	0.5%	87	0.4%
No Reported Exposure*	4,534		2,493		7,027	
TOTAL	12,162		15,548		27,710	

MALES EXPOSURE CATEGORY	Adult/Adolescent Living HIV Cases without AIDS		Adult/Adolescent Living HIV Cases with AIDS		Adult/Adolescent Total Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	5,012	100.0%	8,670	100.0%	13,682	100.0%
Men who have Sex with Men (MSM)	2,687	53.6%	3,545	40.9%	6,232	45.5%
Injection Drug Users (IDU)	1,229	24.5%	2,947	34.0%	4,176	30.5%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	214	4.3%	537	6.2%	751	5.5%
Heterosexual Exposure (HET)	870	17.4%	1,607	18.5%	2,477	18.1%
Other Exposures	12	0.2%	34	0.4%	46	0.3%
No Reported Exposure	2,583		1,470		4,053	
TOTAL	7,595		10,140		17,735	

FEMALES EXPOSURE CATEGORY	Adult/Adolescent Living HIV Cases without AIDS		Adult/Adolescent Living HIV Cases with AIDS		Adult/Adolescent Total Living HIV Cases	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	2,616	100.0%	4,385	100.0%	7,001	100.0%
Injection Drug Users (IDU)	754	28.8%	1,603	36.6%	2,357	33.7%
Heterosexual Exposure (HET)	1,850	70.7%	2,753	62.8%	4,603	65.7%
Other Exposures	12	0.5%	29	0.7%	41	0.6%
No Reported Exposure*	1,951		1,023		2,974	
TOTAL	4,567		5,408		9,975	

* Includes 56 HIV cases without AIDS and 81 HIV cases with AIDS with Presumed Female Heterosexual exposure

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

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

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

Table 21 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2011 and Reported through 12/31/2012

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	920	100.0%	15,730	100.0%	3,242	100.0%
Men who have Sex with Men (MSM)	348	37.8%	3,802	24.2%	1,807	55.7%
Injection Drug Users (IDU)	124	13.5%	5,458	34.7%	703	21.7%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	26	2.8%	569	3.6%	119	3.7%
Heterosexual Exposure (HET)	419	45.5%	5,849	37.2%	583	18.0%
Other Exposures	3	0.3%	52	0.3%	30	0.9%
No Reported Exposure*	331		5,562		945	
TOTAL	1,251		21,292		4,187	

MALES 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	694	100.0%	9,926	100.0%	2,541	100.0%
Men who have Sex with Men (MSM)	348	50.1%	3,802	38.3%	1,807	71.1%
Injection Drug Users (IDU)	94	13.5%	3,571	36.0%	379	14.9%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	26	3.7%	569	5.7%	119	4.7%
Heterosexual Exposure (HET)	224	32.3%	1,963	19.8%	213	8.4%
Other Exposures	2	0.3%	21	0.2%	23	0.9%
No Reported Exposure	238		3,044		653	
TOTAL	932		12,970		3,194	

FEMALES 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	226	100.0%	5,804	100.0%	701	100.0%
Injection Drug Users (IDU)	30	13.3%	1,887	32.5%	324	46.2%
Heterosexual Exposure (HET)	195	86.3%	3,886	67.0%	370	52.8%
Other Exposures	1	0.4%	31	0.5%	7	1.0%
No Reported Exposure*	93		2,518		292	
TOTAL	319		8,322		993	

* Includes 8 Hispanic cases, 103 non-Hispanic black cases, and 12 non-Hispanic white cases with Presumed Female Heterosexual exposure

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

Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2011 and Reported through 12/31/2012

EXPOSURE CATEGORY	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
With Exposure	20,683	9,429	45.6%	449	17.5%	18.2%	21.0%	43.3%
Men who have Sex with Men (MSM)	6,232	2,513	40.3%	472	13.8%	18.0%	21.7%	46.5%
Injection Drug Users (IDU)	6,533	3,317	50.8%	410	21.5%	20.1%	20.5%	38.0%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	751	347	46.2%	395	19.3%	24.5%	19.0%	37.2%
Heterosexual Exposure (HET)	7,080	3,212	45.4%	480	16.1%	15.7%	21.2%	47.0%
Other Exposures	87	40	46.0%	398	25.0%	22.5%	15.0%	37.5%
No Reported Exposure*	7,027	2,521	35.9%	438	18.4%	18.6%	20.0%	43.0%
TOTAL	27,710	11,950	43.1%	447	17.7%	18.3%	20.8%	43.2%

* Includes 126 cases with Presumed Female Heterosexual exposure

Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2011 and Reported through 12/31/2012

EXPOSURE CATEGORY	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
With Exposure	20,683	8,364	40.4%	69.2%	13,104
Men who have Sex with Men (MSM)	6,232	2,358	37.8%	70.5%	12,692
Injection Drug Users (IDU)	6,533	2,711	41.5%	66.2%	13,730
Men who have Sex with Men and Inject Drugs (MSM/IDU)	751	312	41.5%	69.2%	13,746
Heterosexual Exposure (HET)	7,080	2,946	41.6%	71.2%	12,640
Other Exposures	87	37	42.5%	62.2%	30,991
No Reported Exposure*	7,027	2,388	34.0%	64.1%	14,770
TOTAL	27,710	10,752	38.8%	68.1%	13,400

* Includes 126 cases with Presumed Female Heterosexual exposure

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

Recent CD4 Test Result: The most recent CD4 test result reported in the 12 months prior to December 31st of the specified year.

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

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

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

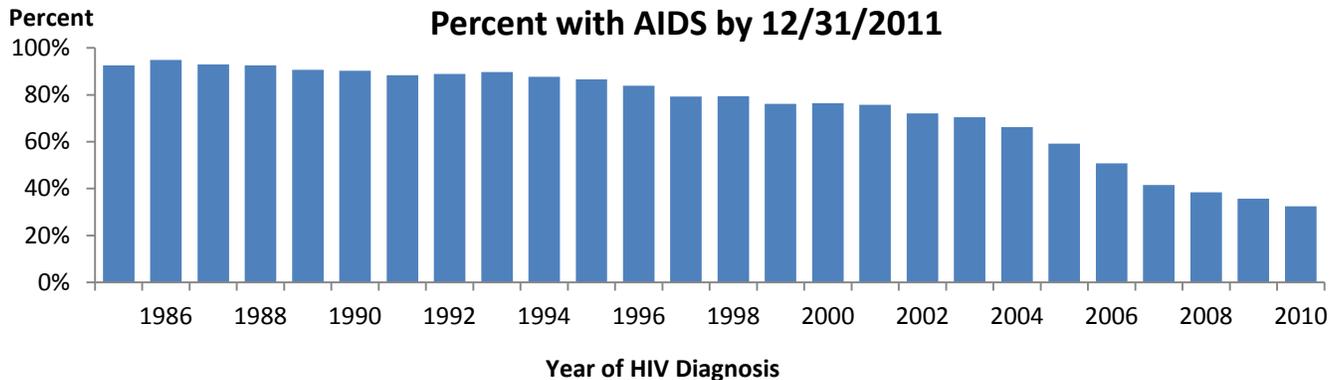
Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 400 copies per milliliter.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result reported in the 12 months prior to December 31st of the specified year of 400 copies per milliliter or greater.

Section VIII – Disease Progression and Mortality

Figure 9 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2010, Reported through 12/31/2012

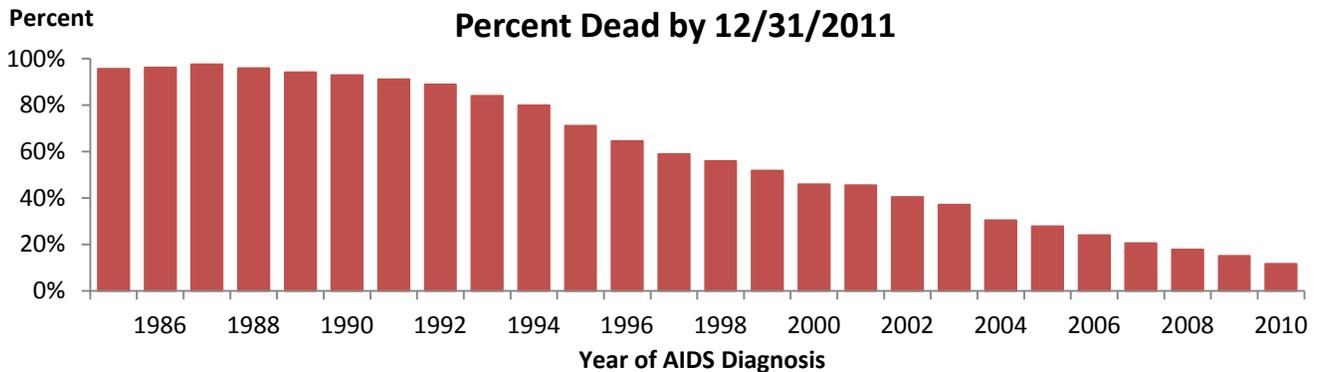
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2010 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2011 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2011, 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 2010, as Reported by Name through 12/31/2012



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	339	324	95.6%	6.6	40.4%	40.4%	43.4%	67.3%
1985	678	627	92.5%	6.1	31.9%	33.2%	40.1%	75.2%
1986	907	860	94.8%	5.1	36.9%	37.9%	49.3%	82.1%
1987	1,221	1,136	93.0%	4.2	39.0%	41.4%	57.9%	83.8%
1988	1,646	1,522	92.5%	3.5	41.1%	44.9%	66.2%	86.0%
1989	2,124	1,927	90.7%	3.3	41.1%	45.8%	68.7%	84.1%
1990	2,190	1,976	90.2%	2.8	44.9%	52.0%	73.1%	85.2%
1991	2,543	2,245	88.3%	2.6	46.5%	55.4%	73.4%	82.9%
1992	2,413	2,146	88.9%	2.4	50.1%	58.5%	74.6%	83.2%
1993	2,155	1,933	89.7%	2.0	55.5%	63.9%	77.5%	85.8%
1994	1,986	1,741	87.7%	1.9	57.5%	64.9%	75.6%	83.6%
1995	1,991	1,725	86.6%	1.9	58.6%	64.1%	73.1%	82.8%
1996	1,840	1,544	83.9%	1.8	59.6%	63.9%	71.7%	80.6%
1997	1,877	1,486	79.2%	1.7	56.4%	60.8%	68.6%	76.0%
1998	1,839	1,460	79.4%	1.7	56.4%	60.2%	68.2%	76.0%
1999	1,783	1,356	76.1%	1.4	57.0%	60.8%	67.7%	74.1%
2000	1,690	1,291	76.4%	1.3	56.2%	59.9%	68.9%	75.3%
2001	1,836	1,390	75.7%	1.1	57.9%	61.3%	69.8%	74.8%
2002	2,020	1,454	72.0%	1.0	57.0%	60.7%	67.1%	--
2003	1,941	1,366	70.4%	0.9	56.4%	59.6%	64.9%	--
2004	2,003	1,325	66.2%	0.9	53.0%	56.1%	61.4%	--
2005	2,051	1,215	59.2%	0.8	48.3%	50.7%	56.2%	--
2006	2,080	1,056	50.8%	0.8	40.2%	42.6%	49.0%	--
2007	2,275	943	41.5%	0.7	32.5%	34.5%	--	--
2008	2,171	833	38.4%	0.6	30.8%	33.6%	--	--
2009	1,677	599	35.7%	0.5	29.9%	32.3%	--	--
2010	1,610	522	32.4%	0.2	29.3%	--	--	--
TOTAL	48,886	36,002	73.6%	2.1	47.7%	52.1%	62.2%	70.4%

Figure 10 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2010, Reported through 12/31/2012

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/10 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2011 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2011, 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 2010, as Reported by Name through 12/31/2012

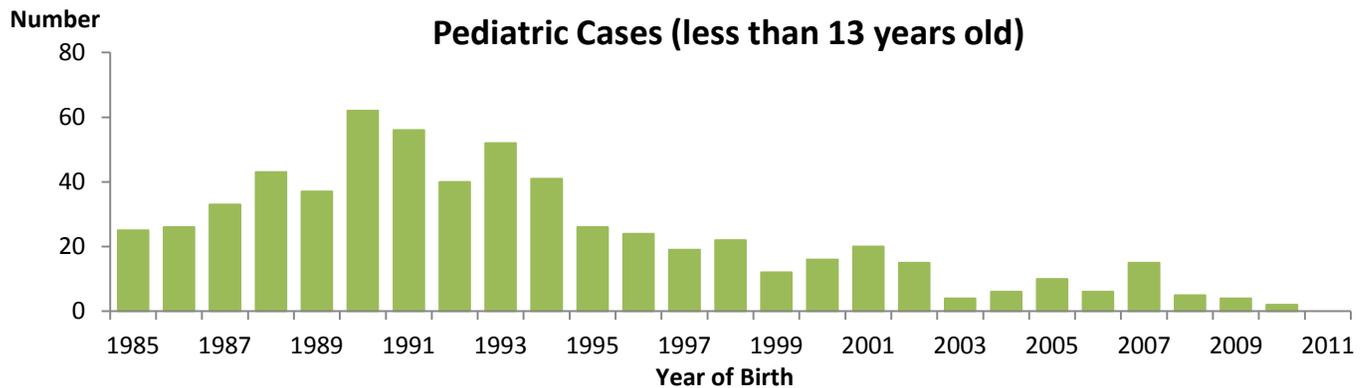


YEAR OF AIDS DIAGNOSIS	Adult/Adolescent Reported AIDS Diagnoses							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	142	139	97.9%	1.7	40.8%	19.0%	9.9%	6.3%
1985	209	200	95.7%	1.6	42.6%	20.1%	11.5%	6.2%
1986	316	304	96.2%	2.1	50.6%	32.6%	13.0%	8.2%
1987	491	479	97.6%	2.0	56.8%	31.4%	10.8%	5.5%
1988	687	659	95.9%	2.1	60.3%	37.6%	13.5%	6.1%
1989	916	863	94.2%	2.4	63.6%	43.2%	17.5%	9.4%
1990	1,176	1,094	93.0%	2.8	66.6%	47.8%	21.4%	12.2%
1991	1,463	1,334	91.2%	2.5	68.1%	48.0%	18.9%	12.7%
1992	1,955	1,740	89.0%	2.8	71.8%	50.6%	22.8%	17.0%
1993	2,250	1,889	84.0%	3.2	77.1%	56.5%	33.5%	22.8%
1994	2,165	1,729	79.9%	3.4	77.6%	58.8%	39.6%	26.7%
1995	2,169	1,544	71.2%	4.0	78.1%	67.2%	51.4%	37.3%
1996	1,954	1,263	64.6%	4.5	82.3%	75.6%	60.4%	44.3%
1997	1,687	993	58.9%	4.5	85.0%	77.9%	63.5%	48.7%
1998	1,543	864	56.0%	4.4	86.8%	80.8%	66.0%	49.7%
1999	1,546	802	51.9%	4.0	87.3%	80.9%	66.6%	51.9%
2000	1,422	652	45.9%	3.9	88.1%	83.6%	70.0%	56.5%
2001	1,555	707	45.5%	3.2	86.5%	79.7%	66.7%	55.6%
2002	1,594	644	40.4%	3.2	87.9%	82.6%	70.8%	--
2003	1,577	587	37.2%	2.6	85.2%	80.2%	70.4%	--
2004	1,540	470	30.5%	2.4	88.4%	84.2%	75.2%	--
2005	1,472	411	27.9%	2.1	88.5%	84.5%	75.6%	--
2006	1,255	301	24.0%	1.8	89.2%	85.3%	77.1%	--
2007	1,092	225	20.6%	1.4	89.0%	86.1%	--	--
2008	1,039	185	17.8%	1.0	89.1%	85.8%	--	--
2009	827	125	15.1%	0.8	89.5%	86.8%	--	--
2010	961	112	11.7%	0.6	91.2%	--	--	--
TOTAL	35,003	20,315	58.0%	3.1	80.7%	70.1%	54.8%	45.7%

Section IX – Pediatric Cases

Figure 11 – Trends in Pediatric HIV Cases, 1985-2011, Reported through 12/31/2012

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2011, as Reported by Name through 12/31/2012



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	56	6	2	0	--
1985	25	14	8	2	19
1986	26	15	6	4	30
1987	33	21	14	5	46
1988	43	29	19	6	69
1989	37	34	25	8	95
1990	62	52	22	9	138
1991	56	53	36	12	179
1992	40	60	38	12	226
1993	52	55	35	16	265
1994	41	40	31	16	288
1995	26	29	21	20	297
1996	24	32	22	19	311
1997	19	15	11	6	320
1998	22	19	9	6	333
1999	12	28	13	5	355
2000	16	13	5	0	368
2001	20	15	12	5	377
2002	15	16	11	3	389
2003	4	5	2	6	388
2004	6	10	4	6	392
2005	10	10	4	3	399
2006	6	17	5	4	413
2007	15	56	7	6	463
2008	5	15	9	3	476
2009	4	8	3	1	483
2010	2	4	9	6	483
2011	0	6	6	1	487
TOTAL	677	677	389	190	--

Table 24 – Pediatric HIV Diagnoses during 2011 and Pediatric Total Living HIV Cases, Alive on 12/31/2011, by Jurisdiction, Reported through 12/31/2012

JURISDICTION OF RESIDENCE AT DIAGNOSIS	Pediatric Reported HIV Diagnoses		Pediatric Total Living HIV Cases	
	No.	% of Total	No.	% of Total
Allegany	0	0.0%	2	0.4%
Anne Arundel	0	0.0%	22	4.5%
Baltimore City	2	33.3%	228	46.8%
Baltimore	1	16.7%	43	8.8%
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%	2	0.4%
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%	13	2.7%
Howard	0	0.0%	5	1.0%
Kent	0	0.0%	1	0.2%
Montgomery	1	16.7%	43	8.8%
Prince George's	2	33.3%	98	20.1%
Queen Anne's	0	0.0%	0	0.0%
Saint Mary's	0	0.0%	1	0.2%
Somerset	0	0.0%	1	0.2%
Talbot	0	0.0%	2	0.4%
Washington	0	0.0%	3	0.6%
Wicomico	0	0.0%	1	0.2%
Worcester	0	0.0%	1	0.2%
Corrections	0	0.0%	2	0.4%
TOTAL	6	100.0%	487	100.0%

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

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

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

Table 25 – Pediatric HIV Diagnosis during 2011 and Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2011 and Reported through 12/31/2012

SEX AT BIRTH	Pediatric Reported HIV Diagnoses		Pediatric Total Living HIV Cases	
	No.	% of Total	No.	% of Total
Male	1	16.7%	227	46.6%
Female	5	83.3%	260	53.4%
TOTAL	6	100.0%	487	100.0%

RACE/ETHNICITY	Pediatric Reported HIV Diagnoses		Pediatric Total Living HIV Cases	
	No.	% of Total	No.	% of Total
Hispanic	0	0.0%	9	1.8%
Non-Hispanic	6	100.0%	478	98.2%
American Indian/ Alaska Native, only	0	0.0%	1	0.2%
Asian, only	0	0.0%	2	0.4%
Black, only	6	100.0%	422	86.7%
Native Hawaiian/Other Pacific Islander, only	0	0.0%	0	0.0%
White, only	0	0.0%	42	8.6%
Multiracial/Other	0	0.0%	11	2.3%
TOTAL	6	100.0%	487	100.0%

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

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

Table 26 – Perinatal HIV Transmissions by Year of Birth, 2005-2011

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	177	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	124*	2	1.6%
2011	73,052	6,763	122*	1	0.9%
TOTAL	529,469	--	1,116	26	2.3%

*2010 and 2011 reported perinatal HIV exposure data are preliminary.

Live births from Maryland Vital Statistics Annual Report 2011.

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, 2012.

Confirmed perinatal HIV transmissions from Maryland Enhanced Perinatal Surveillance System, December 31, 2012.

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 31st 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.