# 2018

# Eastern Region Annual HIV Epidemiological Profile

## Data reported through June 30, 2019

**Maryland**
DEPARTMENT OF HEALTH

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
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## Acknowledgements

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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 people living with HIV 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 the Code of Maryland Regulations (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 the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.

- Physicians are required to report infants born to mothers living with HIV within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 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 the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health 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 Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx

## For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

## Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

HIV Incidence: The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.2 percent for the United States and 13.8 percent for Maryland in 2016. Using the CDC CD4 depletion model on Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 11.6 percent in 2017.

Maryland Residence: This epidemiological profile provides estimates of people living with diagnosed HIV in Maryland by their residence as of December 31, 2018. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years

presents the most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care during the most recent ten and a half years. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates.

> <u>Maryland Residence – Correctional Facilities:</u> People living with diagnosed HIV who were reported to be residing in a state or federal prison as of December 31, 2018 will be presented in the Maryland epidemiological profile only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers. Individuals diagnosed or previously identified as residing in a correctional facility, whose most recent reported residential address indicates they were not residing in a state/federal correctional facility as of December 31, 2018, are included with estimates of people who are not incarcerated. The movement of persons between Maryland correctional facilities is not reflected in this report.

<u>Gender Identity:</u> This epidemiological profile describes gender expansive people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Historically, it has been difficult to fully present data by gender identity. Data on gender expansive people has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number gender expansive people living with diagnosed HIV because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

<u>Race/Ethnicity:</u> The completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across agencies and some agencies do not collect or have complete data on race/ethnicity. This report may be overreporting the number of Multiracial people living with diagnosed HIV because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

<u>Foreign-Born Maryland Residents:</u> The completeness of reporting a person's country of birth is variable in surveillance data. Not all agencies collect or have complete data on nativity. In addition, some individuals may immigrate to the U.S. with HIV. HIV testing data from other countries is often unavailable for these people; therefore, they are counted as a new diagnosis following their first HIV related lab test in the United States, even if they were first diagnosed elsewhere.

<u>Mortality:</u> Mortality (death) data is presented in this epidemiological profile. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

<u>Viral Suppression:</u> In this epidemiological profile, viral suppression is defined as the most recent viral load measured in the specified year of less than 200 copies per milliliter. Estimates of viral suppression among people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

## Changes in Terminology

The terminology for HIV and AIDS surveillance data was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and People Living with Diagnosed HIV 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 newly and previously diagnosed individuals as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the

Reported HIV Diagnoses for 2018 are the total number of people diagnosed with HIV from January 1, 2018 to December 31, 2018, as reported by name through June 30, 2019.

To calculate the number of people living with diagnosed HIV, we count all reported diagnoses from the beginning of the epidemic (all new diagnoses each year) and subtract all reported deaths. For example, the total people living with diagnosed HIV on December 31, 2018 are the total reported HIV diagnoses not reported to have died as of December 31, 2018 as reported by name through June 30, 2019.

## Stages of HIV Surveillance

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 contract HIV but never be screened for HIV 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 |

An instance of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9] but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV transmission [time point 1].

## Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent. Viral load 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. Low levels of viral load, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

## Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's eHARS, as of June 30, 2019.

Population data by sex, age, and race/ethnicity are from the July 1, 2018 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2017 American Community Survey. This produces a difference in total population due to the 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.

The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

## Tabulation of Column Totals

Numbers in figures, 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 people living with diagnosed HIV, 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 people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Exposure/risk data is not suppressed due to statistical adjustment resulting in the reporting of estimated or probable risk.

## 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 report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

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

**Male-to-male Sexual Contact (MSM):** 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.

**Heterosexual Contact (HET)**: Men or women who report a history of sexual contact with a person of the opposite sex who is known to be HIV positive or at increased risk for HIV transmission. Risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue, and artificial insemination.

**Perinatal Exposure:** Any baby born to a woman living with diagnosed HIV.

**Other Exposure**: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing in some instances. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual person as well as data in aggregate from other people living with diagnosed HIV in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

# Section II – Trends 1985-2018

## Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019

People Diagnosed with HIV (Reported HIV Diagnoses) by Year of HIV Diagnosis, People Diagnosed with HIV with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and People Diagnosed with HIV with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2018, as Reported through June 30, 2019
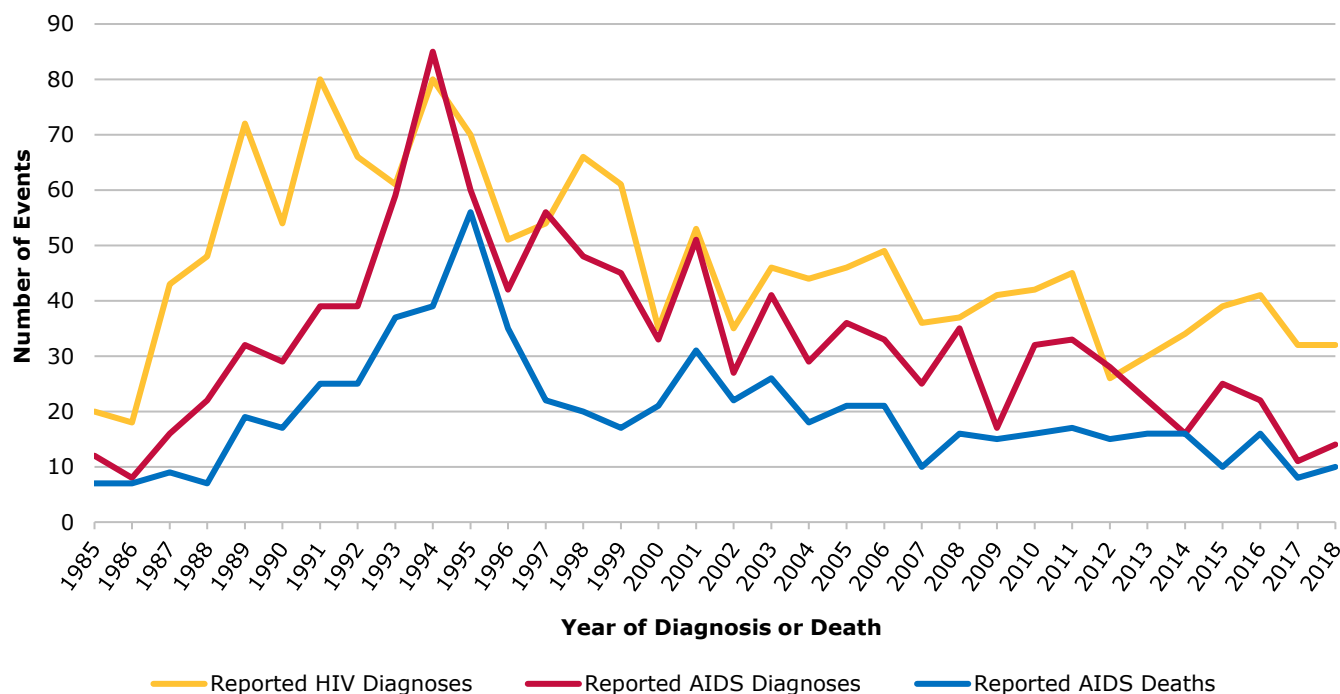


| Year of Diagnosis or Death | Reported HIV Diagnoses | Reported AIDS Diagnoses | Reported AIDS Deaths | Year of Diagnosis or Death | Reported HIV Diagnoses | Reported AIDS Diagnoses | Reported AIDS Deaths |
|---|---|---|---|---|---|---|---|
| <1985 | 9 | 7 | 6 | 2002 | 35 | 27 | 22 |
| 1985 | 20 | 12 | 7 | 2003 | 46 | 41 | 26 |
| 1986 | 18 | 8 | 7 | 2004 | 44 | 29 | 18 |
| 1987 | 43 | 16 | 9 | 2005 | 46 | 36 | 21 |
| 1988 | 48 | 22 | 7 | 2006 | 49 | 33 | 21 |
| 1989 | 72 | 32 | 19 | 2007 | 36 | 25 | 10 |
| 1990 | 54 | 29 | 17 | 2008 | 37 | 35 | 16 |
| 1991 | 80 | 39 | 25 | 2009 | 41 | 17 | 15 |
| 1992 | 66 | 39 | 25 | 2010 | 42 | 32 | 16 |
| 1993 | 61 | 59 | 37 | 2011 | 45 | 33 | 17 |
| 1994 | 80 | 85 | 39 | 2012 | 26 | 28 | 15 |
| 1995 | 70 | 60 | 56 | 2013 | 30 | 22 | 16 |
| 1996 | 51 | 42 | 35 | 2014 | 34 | 16 | 16 |
| 1997 | 54 | 56 | 22 | 2015 | 39 | 25 | 10 |
| 1998 | 66 | 48 | 20 | 2016 | 41 | 22 | 16 |
| 1999 | 61 | 45 | 17 | 2017* | 32 | 11 | 8 |
| 2000 | 35 | 33 | 21 | 2018* | 32 | 14 | 10 |
| 2001 | 53 | 51 | 31 | Total | 1,596 | 1,129 | 673 |

*2017-2018 reported AIDS deaths are preliminary

# Figure 2 – Trends in People Living with Diagnosed HIV, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019

People Living with Diagnosed HIV and Not Reported to have Died as of December 31st of Each Year (People Living with Diagnosed HIV without an AIDS Diagnosis, People Living with Diagnosed HIV with an AIDS Diagnosis, and Total People Living with Diagnosed HIV) from 1985 through 2018, as Reported through June 30, 2019
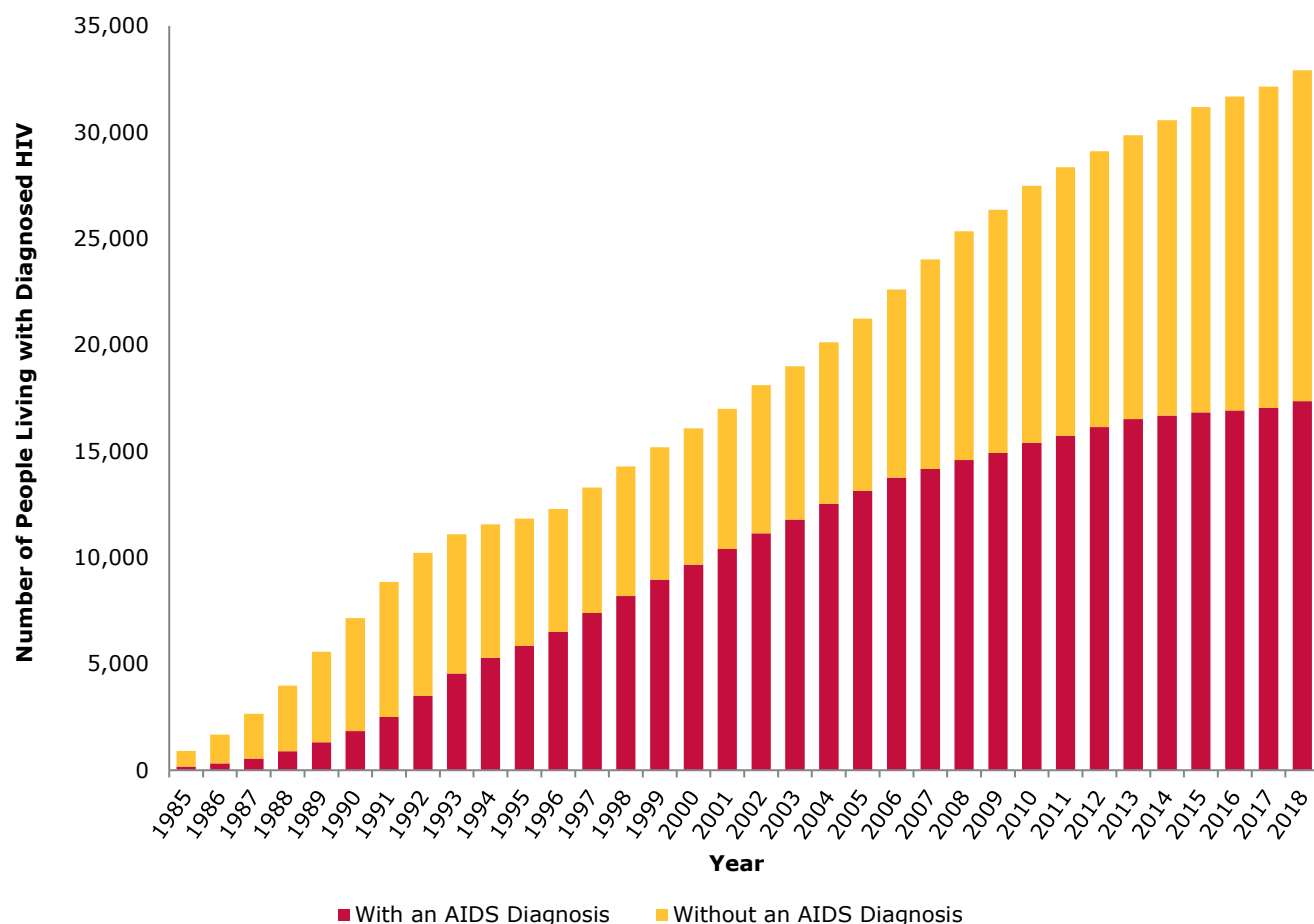


| Year | People Living with Diagnosed HIV | | | Year | People Living with Diagnosed HIV | | |
|---|---|---|---|---|---|---|---|
| | without an AIDS Diagnosis | with an AIDS Diagnosis | Total | | without an AIDS Diagnosis | with an AIDS Diagnosis | Total |
| **1985** | 9 | 6 | 15 | **2002** | 213 | 288 | 501 |
| **1986** | 19 | 7 | 26 | **2003** | 210 | 303 | 513 |
| **1987** | 45 | 14 | 59 | **2004** | 222 | 314 | 536 |
| **1988** | 71 | 29 | 100 | **2005** | 228 | 329 | 557 |
| **1989** | 108 | 42 | 150 | **2006** | 247 | 341 | 588 |
| **1990** | 134 | 54 | 188 | **2007** | 257 | 356 | 613 |
| **1991** | 171 | 68 | 239 | **2008** | 258 | 375 | 633 |
| **1992** | 195 | 82 | 277 | **2009** | 279 | 377 | 656 |
| **1993** | 196 | 104 | 300 | **2010** | 289 | 393 | 682 |
| **1994** | 191 | 150 | 341 | **2011** | 294 | 409 | 703 |
| **1995** | 193 | 154 | 347 | **2012** | 290 | 422 | 712 |
| **1996** | 195 | 161 | 356 | **2013** | 293 | 428 | 721 |
| **1997** | 193 | 195 | 388 | **2014** | 311 | 428 | 739 |
| **1998** | 206 | 223 | 429 | **2015** | 325 | 443 | 768 |
| **1999** | 210 | 251 | 461 | **2016** | 344 | 449 | 793 |
| **2000** | 211 | 263 | 474 | **2017** | 365 | 452 | 817 |
| **2001** | 207 | 283 | 490 | **2018** | 384 | 456 | 840 |

# Figure 3 – Trends in People Aged 13+ Living with Diagnosed HIV, Among Current Residents, 2009-2018, Reported through June 30, 2019

People Living with Diagnosed HIV in the Eastern Region and Not Reported to have Died as of December 31st of Each Year from 2009 through 2018, as Reported through June 30, 2019



- Diagnosed with HIV in Maryland
- Diagnosed with HIV Outside of Maryland
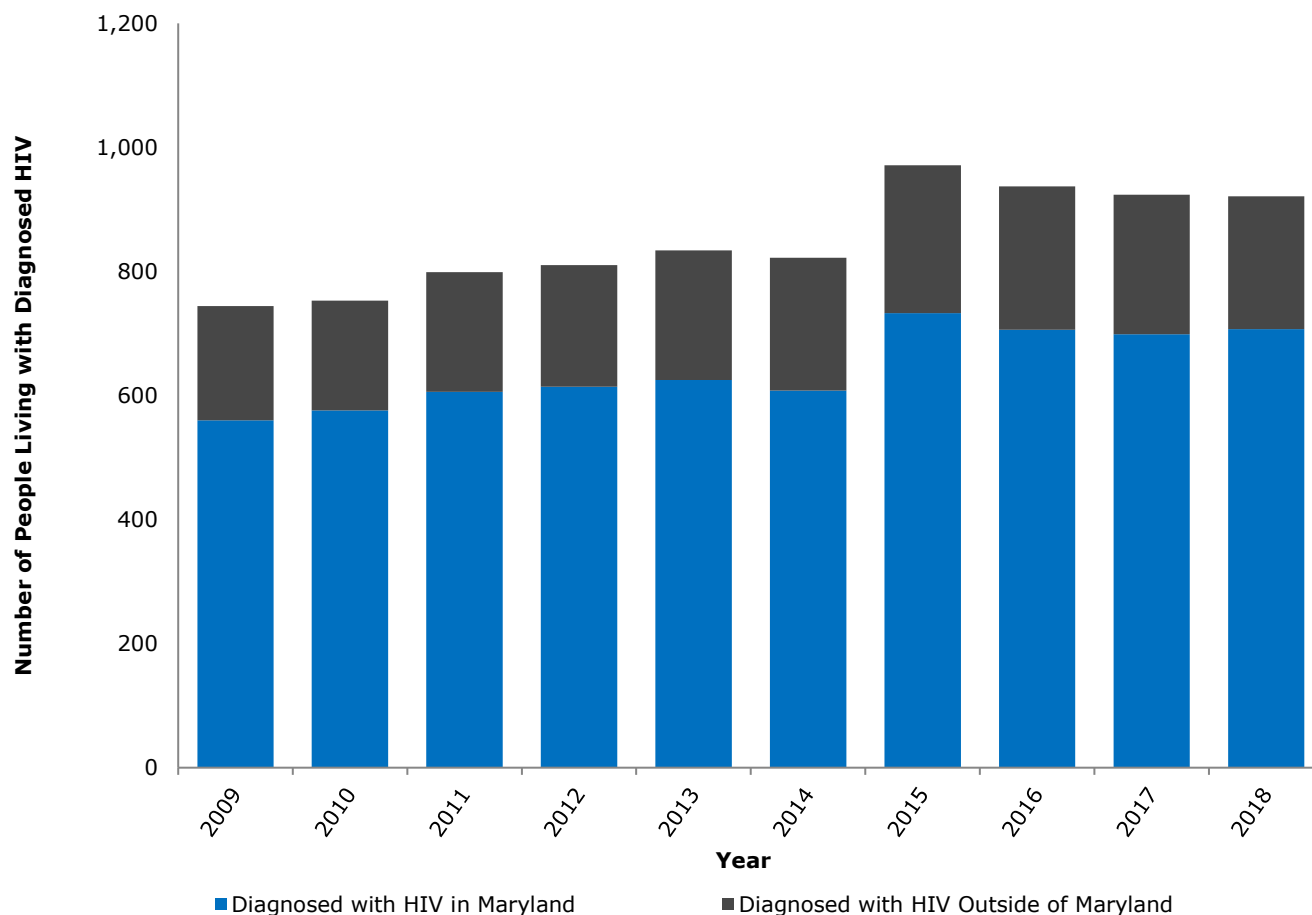
| Year | Population Age 13+ | Eastern Region Residents Aged 13+ as of December 31st of the Specified Year | | | |
| | | Diagnosed with HIV in Maryland | Diagnosed with HIV Outside of Maryland | Total | Rate |
|---|---|---|---|---|---|
| 2009 | 376,978 | 560 | 184 | 744 | 197.4 |
| 2010 | 379,789 | 576 | 177 | 753 | 198.3 |
| 2011 | 381,902 | 606 | 193 | 799 | 209.2 |
| 2012 | 382,625 | 614 | 196 | 810 | 211.7 |
| 2013 | 383,314 | 625 | 209 | 834 | 217.6 |
| 2014 | 383,860 | 608 | 214 | 822 | 214.1 |
| 2015 | 385,081 | 733 | 238 | 971 | 252.2 |
| 2016 | 385,853 | 706 | 231 | 937 | 242.8 |
| 2017 | 387,062 | 699 | 225 | 924 | 238.7 |
| 2018 | 388,797 | 707 | 214 | 921 | 236.9 |

# Figure 4 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2018, Reported through June 30, 2019

Number and Percent by Sex at Birth of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019

**Reported HIV Diagnoses Among People Aged 13+ by Sex at Birth, 1985-2018, Reported through June 30, 2019**



**Reported HIV Diagnoses Among People Aged 13+ by Sex at Birth, 1985-2018, Reported through June 30, 2019**
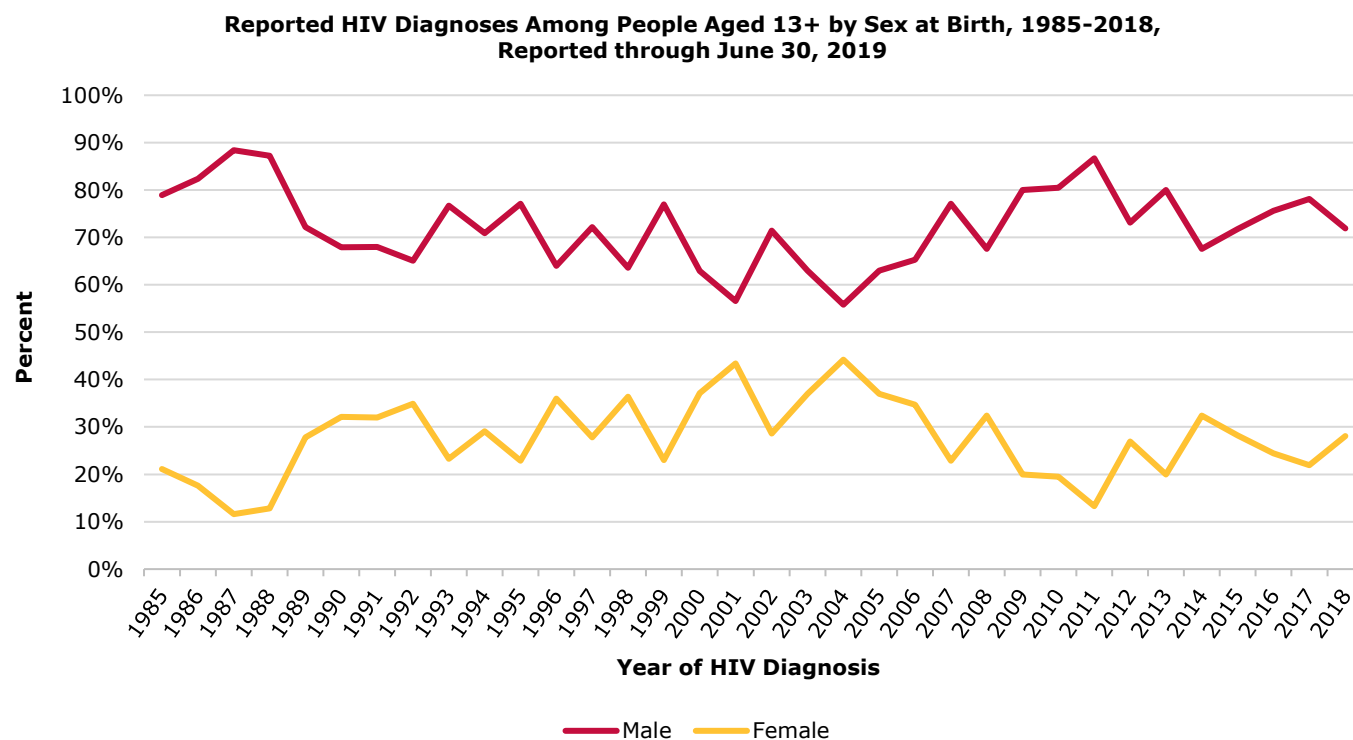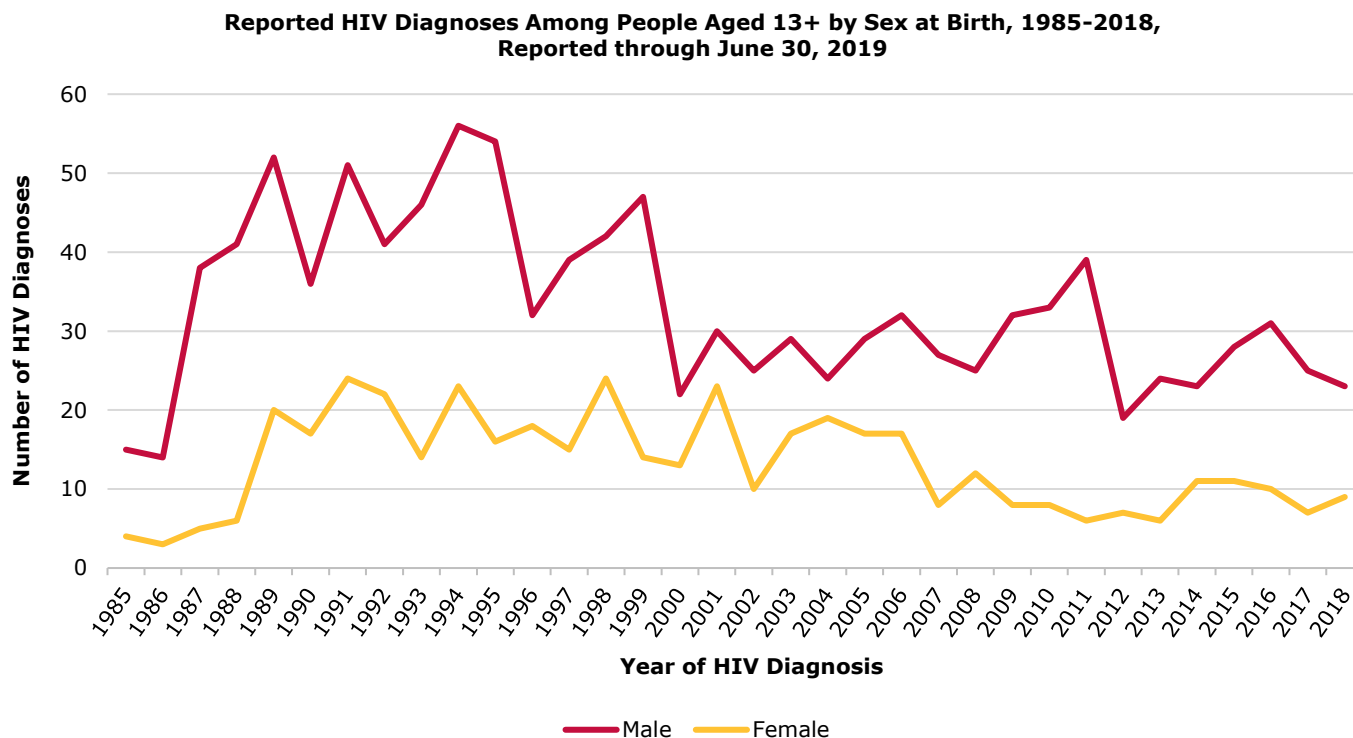
| Year of HIV Diagnosis | Number | Reported HIV Diagnoses Among People Aged 13+ | | | |
| --- | --- | --- | --- | --- | --- |
| | | Sex at Birth | | | |
| | | Male | | Female | |
| | | Number | Percent | Number | Percent |
| **<1985** | 9 | 8 | 88.9% | 1 | 11.1% |
| **1985** | 19 | 15 | 78.9% | 4 | 21.1% |
| **1986** | 17 | 14 | 82.4% | 3 | 17.6% |
| **1987** | 43 | 38 | 88.4% | 5 | 11.6% |
| **1988** | 47 | 41 | 87.2% | 6 | 12.8% |
| **1989** | 72 | 52 | 72.2% | 20 | 27.8% |
| **1990** | 53 | 36 | 67.9% | 17 | 32.1% |
| **1991** | 75 | 51 | 68.0% | 24 | 32.0% |
| **1992** | 63 | 41 | 65.1% | 22 | 34.9% |
| **1993** | 60 | 46 | 76.7% | 14 | 23.3% |
| **1994** | 79 | 56 | 70.9% | 23 | 29.1% |
| **1995** | 70 | 54 | 77.1% | 16 | 22.9% |
| **1996** | 50 | 32 | 64.0% | 18 | 36.0% |
| **1997** | 54 | 39 | 72.2% | 15 | 27.8% |
| **1998** | 66 | 42 | 63.6% | 24 | 36.4% |
| **1999** | 61 | 47 | 77.0% | 14 | 23.0% |
| **2000** | 35 | 22 | 62.9% | 13 | 37.1% |
| **2001** | 53 | 30 | 56.6% | 23 | 43.4% |
| **2002** | 35 | 25 | 71.4% | 10 | 28.6% |
| **2003** | 46 | 29 | 63.0% | 17 | 37.0% |
| **2004** | 43 | 24 | 55.8% | 19 | 44.2% |
| **2005** | 46 | 29 | 63.0% | 17 | 37.0% |
| **2006** | 49 | 32 | 65.3% | 17 | 34.7% |
| **2007** | 35 | 27 | 77.1% | 8 | 22.9% |
| **2008** | 37 | 25 | 67.6% | 12 | 32.4% |
| **2009** | 40 | 32 | 80.0% | 8 | 20.0% |
| **2010** | 41 | 33 | 80.5% | 8 | 19.5% |
| **2011** | 45 | 39 | 86.7% | 6 | 13.3% |
| **2012** | 26 | 19 | 73.1% | 7 | 26.9% |
| **2013** | 30 | 24 | 80.0% | 6 | 20.0% |
| **2014** | 34 | 23 | 67.6% | 11 | 32.4% |
| **2015** | 39 | 28 | 71.8% | 11 | 28.2% |
| **2016** | 41 | 31 | 75.6% | 10 | 24.4% |
| **2017** | 32 | 25 | 78.1% | 7 | 21.9% |
| **2018** | 32 | 23 | 71.9% | 9 | 28.1% |
| **Total** | 1,577 | 1,132 | 71.8% | 445 | 28.2% |

# Figure 5 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2018, Reported through June 30, 2019

Number and Percent by Race/Ethnicity of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019

**Reported HIV Diagnoses Among People Aged 13+ by Race/Ethnicity, 1985-2018, Reported through June 30, 2019**



**Reported HIV Diagnoses Among People Aged 13+ by Race/Ethnicity, 1985-2018, Reported through June 30, 2019**
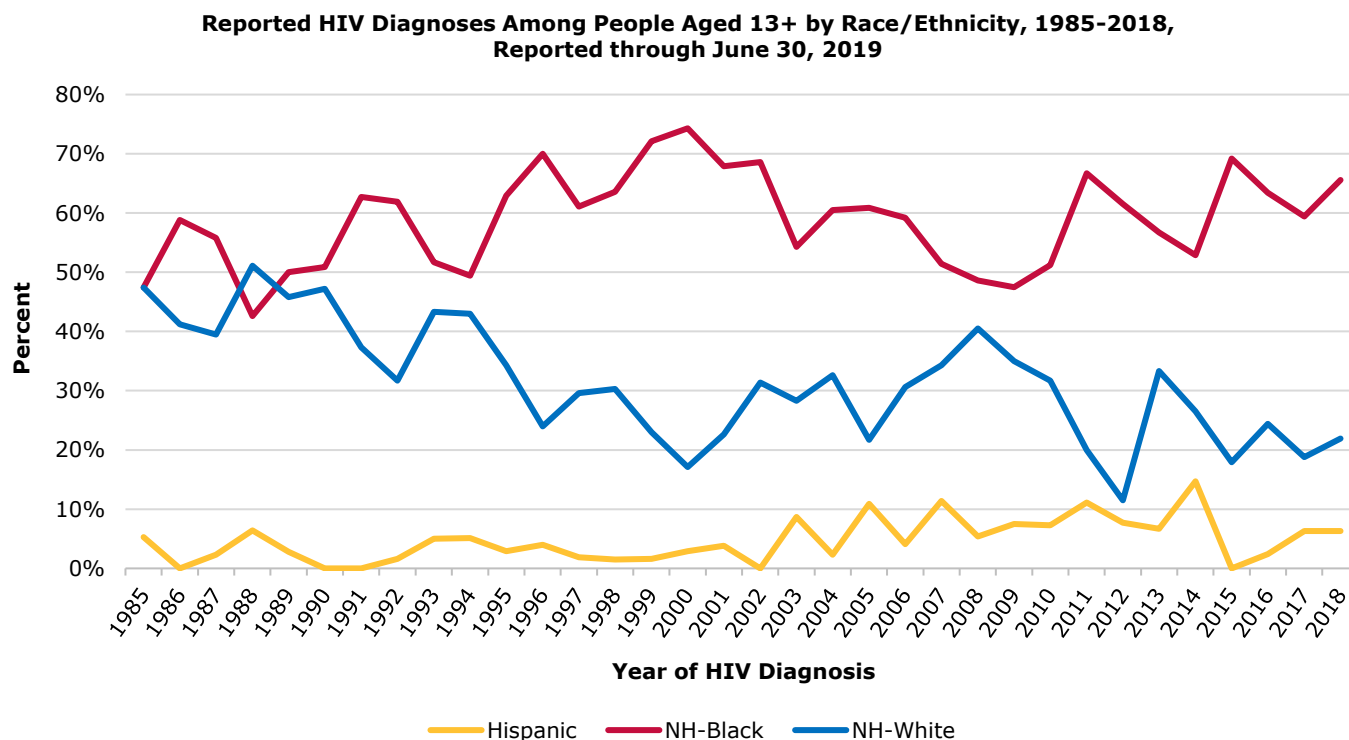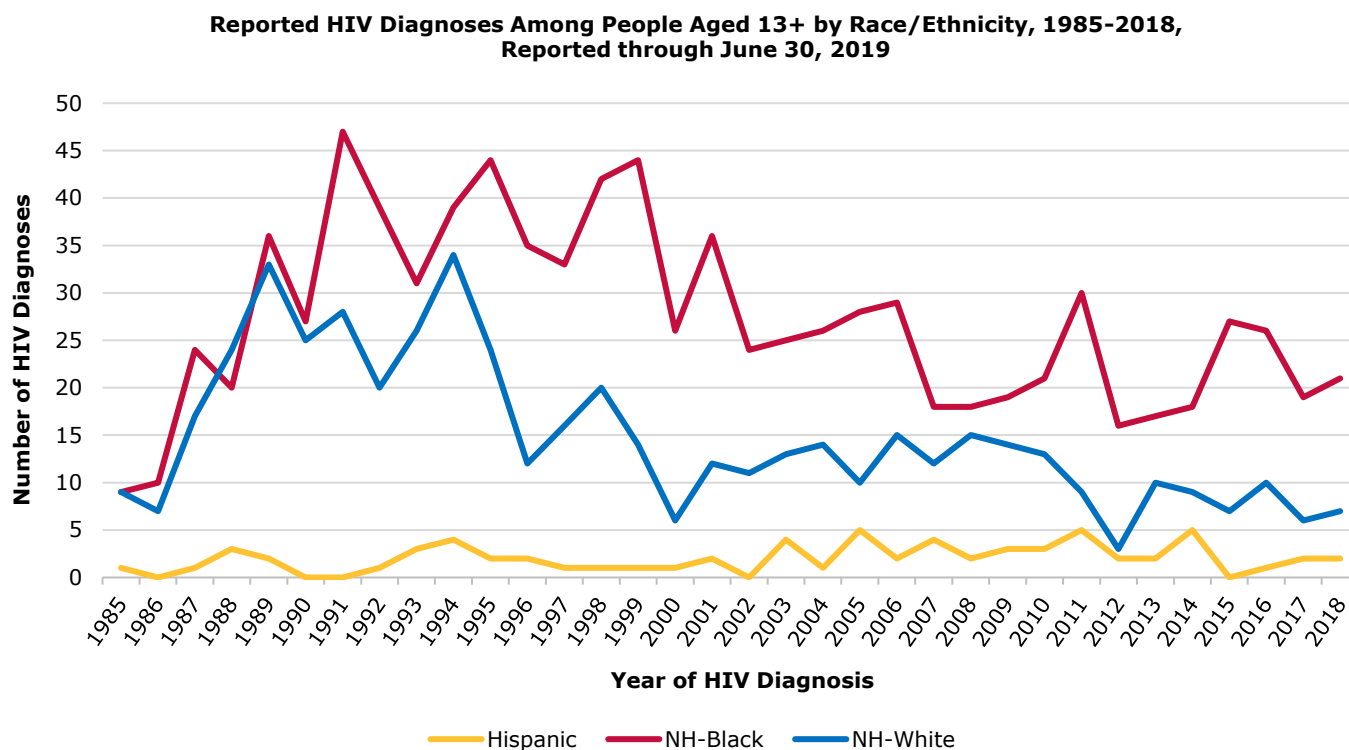


Non-Hispanic Other race not shown

| Year of HIV Diagnosis | No. | Reported HIV Diagnoses Among People Aged 13+ | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Race/Ethnicity | | | | | | | |
| | | Hispanic | | Non-Hispanic Black, only | | Non-Hispanic White, only | | Non-Hispanic Other Race | |
| | | No. | % | No. | % | No. | % | No. | % |
| <1985 | 9 | 0 | 0.0% | 5 | 55.6% | 4 | 44.4% | 0 | 0.0% |
| 1985 | 19 | 1 | 5.3% | 9 | 47.4% | 9 | 47.4% | 0 | 0.0% |
| 1986 | 17 | 0 | 0.0% | 10 | 58.8% | 7 | 41.2% | 0 | 0.0% |
| 1987 | 43 | 1 | 2.3% | 24 | 55.8% | 17 | 39.5% | 1 | 2.3% |
| 1988 | 47 | 3 | 6.4% | 20 | 42.6% | 24 | 51.1% | 0 | 0.0% |
| 1989 | 72 | 2 | 2.8% | 36 | 50.0% | 33 | 45.8% | 1 | 1.4% |
| 1990 | 53 | 0 | 0.0% | 27 | 50.9% | 25 | 47.2% | 1 | 1.9% |
| 1991 | 75 | 0 | 0.0% | 47 | 62.7% | 28 | 37.3% | 0 | 0.0% |
| 1992 | 63 | 1 | 1.6% | 39 | 61.9% | 20 | 31.7% | 3 | 4.8% |
| 1993 | 60 | 3 | 5.0% | 31 | 51.7% | 26 | 43.3% | 0 | 0.0% |
| 1994 | 79 | 4 | 5.1% | 39 | 49.4% | 34 | 43.0% | 2 | 2.5% |
| 1995 | 70 | 2 | 2.9% | 44 | 62.9% | 24 | 34.3% | 0 | 0.0% |
| 1996 | 50 | 2 | 4.0% | 35 | 70.0% | 12 | 24.0% | 1 | 2.0% |
| 1997 | 54 | 1 | 1.9% | 33 | 61.1% | 16 | 29.6% | 4 | 7.4% |
| 1998 | 66 | 1 | 1.5% | 42 | 63.6% | 20 | 30.3% | 3 | 4.5% |
| 1999 | 61 | 1 | 1.6% | 44 | 72.1% | 14 | 23.0% | 2 | 3.3% |
| 2000 | 35 | 1 | 2.9% | 26 | 74.3% | 6 | 17.1% | 2 | 5.7% |
| 2001 | 53 | 2 | 3.8% | 36 | 67.9% | 12 | 22.6% | 3 | 5.7% |
| 2002 | 35 | 0 | 0.0% | 24 | 68.6% | 11 | 31.4% | 0 | 0.0% |
| 2003 | 46 | 4 | 8.7% | 25 | 54.3% | 13 | 28.3% | 4 | 8.7% |
| 2004 | 43 | 1 | 2.3% | 26 | 60.5% | 14 | 32.6% | 2 | 4.7% |
| 2005 | 46 | 5 | 10.9% | 28 | 60.9% | 10 | 21.7% | 3 | 6.5% |
| 2006 | 49 | 2 | 4.1% | 29 | 59.2% | 15 | 30.6% | 3 | 6.1% |
| 2007 | 35 | 4 | 11.4% | 18 | 51.4% | 12 | 34.3% | 1 | 2.9% |
| 2008 | 37 | 2 | 5.4% | 18 | 48.6% | 15 | 40.5% | 2 | 5.4% |
| 2009 | 40 | 3 | 7.5% | 19 | 47.5% | 14 | 35.0% | 4 | 10.0% |
| 2010 | 41 | 3 | 7.3% | 21 | 51.2% | 13 | 31.7% | 4 | 9.8% |
| 2011 | 45 | 5 | 11.1% | 30 | 66.7% | 9 | 20.0% | 1 | 2.2% |
| 2012 | 26 | 2 | 7.7% | 16 | 61.5% | 3 | 11.5% | 5 | 19.2% |
| 2013 | 30 | 2 | 6.7% | 17 | 56.7% | 10 | 33.3% | 1 | 3.3% |
| 2014 | 34 | 5 | 14.7% | 18 | 52.9% | 9 | 26.5% | 2 | 5.9% |
| 2015 | 39 | 0 | 0.0% | 27 | 69.2% | 7 | 17.9% | 5 | 12.8% |
| 2016 | 41 | 1 | 2.4% | 26 | 63.4% | 10 | 24.4% | 4 | 9.8% |
| 2017 | 32 | 2 | 6.3% | 19 | 59.4% | 6 | 18.8% | 5 | 15.6% |
| 2018 | 32 | 2 | 6.3% | 21 | 65.6% | 7 | 21.9% | 2 | 6.3% |
| Total | 1,577 | 68 | 4.3% | 929 | 58.9% | 509 | 32.3% | 71 | 4.5% |

# Figure 6 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, 1985-2018, Reported through June 30, 2019

Number and Percent by Age at HIV Diagnosis of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019

**Reported HIV Diagnoses Among People Aged 13+ by Age at Diagnosis, 1985-2018, Reported through June 30, 2019**



**Reported HIV Diagnoses Among People Aged 13+ by Age at Diagnosis, 1985-2018, Reported through June 30, 2019**
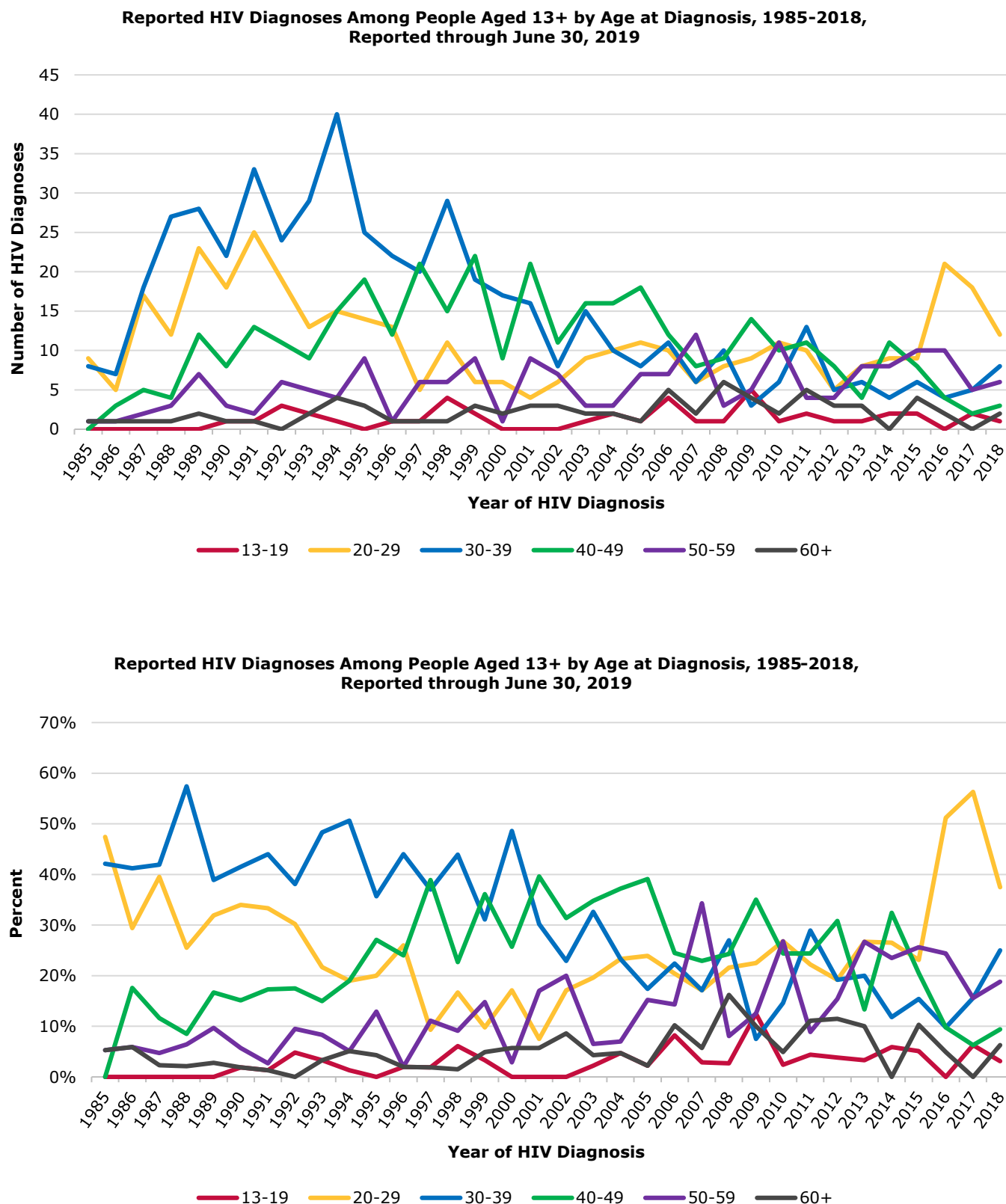
| Year of HIV Diagnosis | No. | 13-19 | | 20-29 | | 30-39 | | 40-49 | | 50-59 | | 60+ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| <1985 | 9 | 1 | 11.1% | 3 | 33.3% | 3 | 33.3% | 1 | 11.1% | 1 | 11.1% | 0 | 0.0% |
| 1985 | 19 | 0 | 0.0% | 9 | 47.4% | 8 | 42.1% | 0 | 0.0% | 1 | 5.3% | 1 | 5.3% |
| 1986 | 17 | 0 | 0.0% | 5 | 29.4% | 7 | 41.2% | 3 | 17.6% | 1 | 5.9% | 1 | 5.9% |
| 1987 | 43 | 0 | 0.0% | 17 | 39.5% | 18 | 41.9% | 5 | 11.6% | 2 | 4.7% | 1 | 2.3% |
| 1988 | 47 | 0 | 0.0% | 12 | 25.5% | 27 | 57.4% | 4 | 8.5% | 3 | 6.4% | 1 | 2.1% |
| 1989 | 72 | 0 | 0.0% | 23 | 31.9% | 28 | 38.9% | 12 | 16.7% | 7 | 9.7% | 2 | 2.8% |
| 1990 | 53 | 1 | 1.9% | 18 | 34.0% | 22 | 41.5% | 8 | 15.1% | 3 | 5.7% | 1 | 1.9% |
| 1991 | 75 | 1 | 1.3% | 25 | 33.3% | 33 | 44.0% | 13 | 17.3% | 2 | 2.7% | 1 | 1.3% |
| 1992 | 63 | 3 | 4.8% | 19 | 30.2% | 24 | 38.1% | 11 | 17.5% | 6 | 9.5% | 0 | 0.0% |
| 1993 | 60 | 2 | 3.3% | 13 | 21.7% | 29 | 48.3% | 9 | 15.0% | 5 | 8.3% | 2 | 3.3% |
| 1994 | 79 | 1 | 1.3% | 15 | 19.0% | 40 | 50.6% | 15 | 19.0% | 4 | 5.1% | 4 | 5.1% |
| 1995 | 70 | 0 | 0.0% | 14 | 20.0% | 25 | 35.7% | 19 | 27.1% | 9 | 12.9% | 3 | 4.3% |
| 1996 | 50 | 1 | 2.0% | 13 | 26.0% | 22 | 44.0% | 12 | 24.0% | 1 | 2.0% | 1 | 2.0% |
| 1997 | 54 | 1 | 1.9% | 5 | 9.3% | 20 | 37.0% | 21 | 38.9% | 6 | 11.1% | 1 | 1.9% |
| 1998 | 66 | 4 | 6.1% | 11 | 16.7% | 29 | 43.9% | 15 | 22.7% | 6 | 9.1% | 1 | 1.5% |
| 1999 | 61 | 2 | 3.3% | 6 | 9.8% | 19 | 31.1% | 22 | 36.1% | 9 | 14.8% | 3 | 4.9% |
| 2000 | 35 | 0 | 0.0% | 6 | 17.1% | 17 | 48.6% | 9 | 25.7% | 1 | 2.9% | 2 | 5.7% |
| 2001 | 53 | 0 | 0.0% | 4 | 7.5% | 16 | 30.2% | 21 | 39.6% | 9 | 17.0% | 3 | 5.7% |
| 2002 | 35 | 0 | 0.0% | 6 | 17.1% | 8 | 22.9% | 11 | 31.4% | 7 | 20.0% | 3 | 8.6% |
| 2003 | 46 | 1 | 2.2% | 9 | 19.6% | 15 | 32.6% | 16 | 34.8% | 3 | 6.5% | 2 | 4.3% |
| 2004 | 43 | 2 | 4.7% | 10 | 23.3% | 10 | 23.3% | 16 | 37.2% | 3 | 7.0% | 2 | 4.7% |
| 2005 | 46 | 1 | 2.2% | 11 | 23.9% | 8 | 17.4% | 18 | 39.1% | 7 | 15.2% | 1 | 2.2% |
| 2006 | 49 | 4 | 8.2% | 10 | 20.4% | 11 | 22.4% | 12 | 24.5% | 7 | 14.3% | 5 | 10.2% |
| 2007 | 35 | 1 | 2.9% | 6 | 17.1% | 6 | 17.1% | 8 | 22.9% | 12 | 34.3% | 2 | 5.7% |
| 2008 | 37 | 1 | 2.7% | 8 | 21.6% | 10 | 27.0% | 9 | 24.3% | 3 | 8.1% | 6 | 16.2% |
| 2009 | 40 | 5 | 12.5% | 9 | 22.5% | 3 | 7.5% | 14 | 35.0% | 5 | 12.5% | 4 | 10.0% |
| 2010 | 41 | 1 | 2.4% | 11 | 26.8% | 6 | 14.6% | 10 | 24.4% | 11 | 26.8% | 2 | 4.9% |
| 2011 | 45 | 2 | 4.4% | 10 | 22.2% | 13 | 28.9% | 11 | 24.4% | 4 | 8.9% | 5 | 11.1% |
| 2012 | 26 | 1 | 3.8% | 5 | 19.2% | 5 | 19.2% | 8 | 30.8% | 4 | 15.4% | 3 | 11.5% |
| 2013 | 30 | 1 | 3.3% | 8 | 26.7% | 6 | 20.0% | 4 | 13.3% | 8 | 26.7% | 3 | 10.0% |
| 2014 | 34 | 2 | 5.9% | 9 | 26.5% | 4 | 11.8% | 11 | 32.4% | 8 | 23.5% | 0 | 0.0% |
| 2015 | 39 | 2 | 5.1% | 9 | 23.1% | 6 | 15.4% | 8 | 20.5% | 10 | 25.6% | 4 | 10.3% |
| 2016 | 41 | 0 | 0.0% | 21 | 51.2% | 4 | 9.8% | 4 | 9.8% | 10 | 24.4% | 2 | 4.9% |
| 2017 | 32 | 2 | 6.3% | 18 | 56.3% | 5 | 15.6% | 2 | 6.3% | 5 | 15.6% | 0 | 0.0% |
| 2018 | 32 | 1 | 3.1% | 12 | 37.5% | 8 | 25.0% | 3 | 9.4% | 6 | 18.8% | 2 | 6.3% |
| Total | 1,577 | 44 | 2.8% | 390 | 24.7% | 515 | 32.7% | 365 | 23.1% | 189 | 12.0% | 74 | 4.7% |

Reported HIV Diagnoses Among People Aged 13+ — Age at HIV Diagnosis

# Figure 7 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2018, Reported through June 30, 2019

Number and Percent by Estimated Exposure Category[§] of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019

**Reported HIV Diagnoses Among People 13+ by Estimated Exposure Category, 1985-2018, Reported through June 30, 2019**



**Reported HIV Diagnoses Among People Aged 13+ by Estimated Exposure Category, 1985-2018, Reported through June 30, 2019**
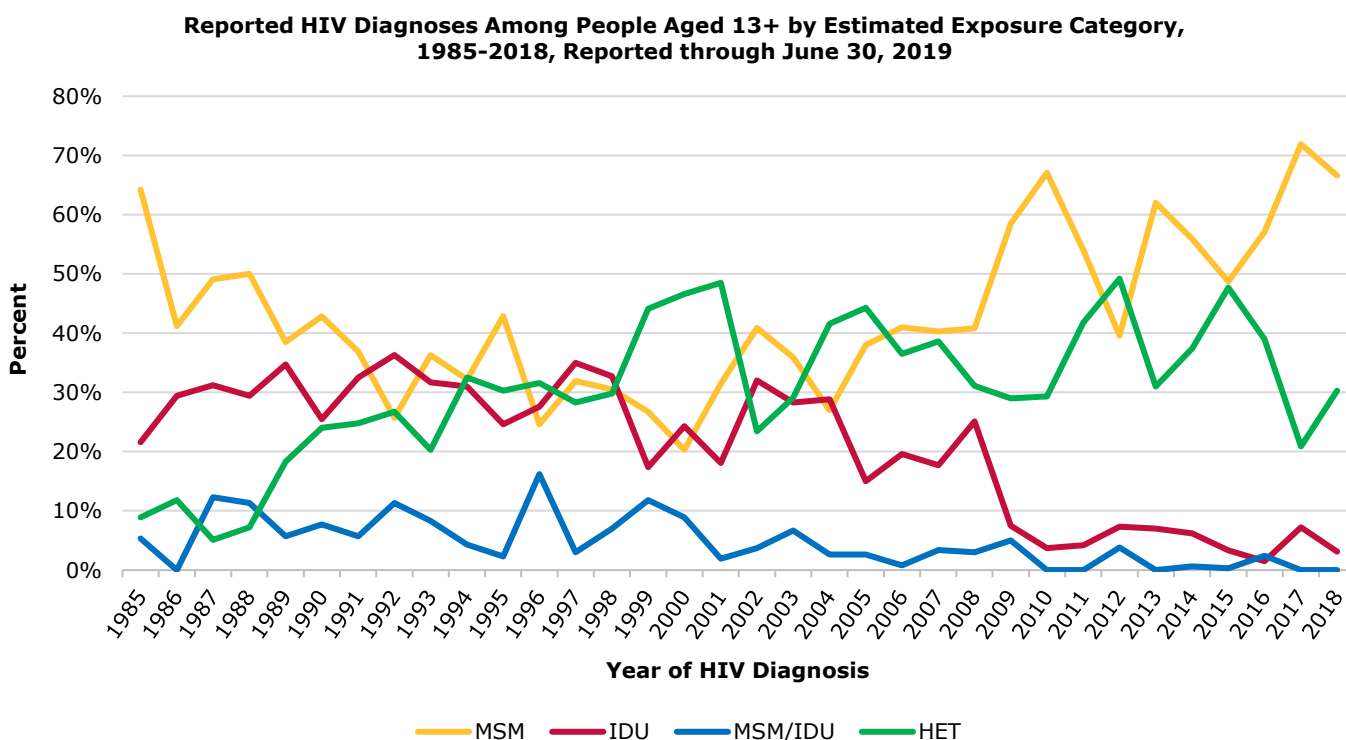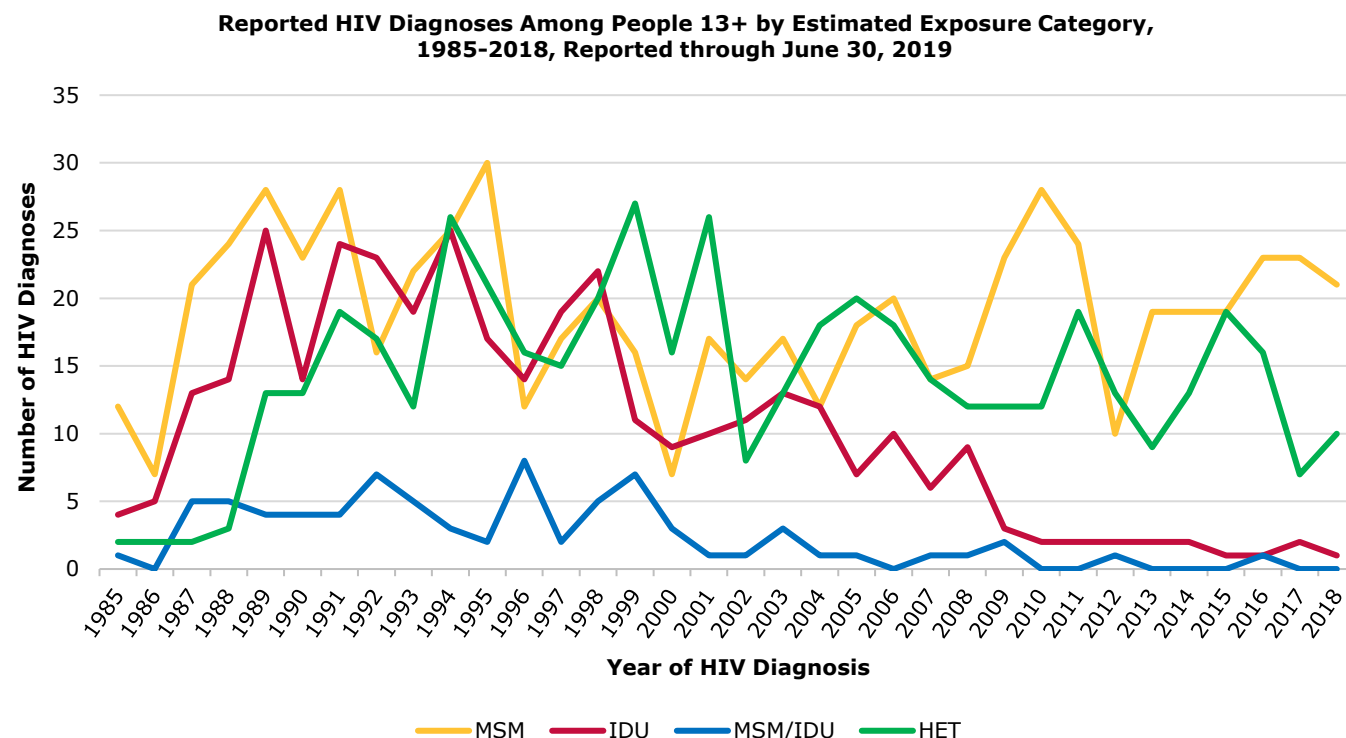


Other exposure category not shown
§ Multiple imputation was used to estimate and adjust for missing exposure category.

| Year of HIV Diagnosis | No. | % with No Reported Exposure¥ | Estimated Exposure Category§ | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MSM | | IDU | | MSM/IDU | | HET | | Other Exposure | |
| | | | No. | % | No. | % | No. | % | No. | % | No. | % |
| <1985 | 9 | 22.2% | 5 | 52.2% | 1 | 13.3% | 1 | 13.3% | 1 | 10.0% | 1 | 11.1% |
| 1985 | 19 | 5.3% | 12 | 64.2% | 4 | 21.6% | 1 | 5.3% | 2 | 8.9% | 0 | 0.0% |
| 1986 | 17 | 0.0% | 7 | 41.2% | 5 | 29.4% | 0 | 0.0% | 2 | 11.8% | 3 | 17.6% |
| 1987 | 43 | 9.3% | 21 | 49.1% | 13 | 31.2% | 5 | 12.3% | 2 | 5.1% | 1 | 2.3% |
| 1988 | 47 | 8.5% | 24 | 50.0% | 14 | 29.4% | 5 | 11.3% | 3 | 7.2% | 1 | 2.1% |
| 1989 | 72 | 2.8% | 28 | 38.5% | 25 | 34.7% | 4 | 5.7% | 13 | 18.3% | 2 | 2.8% |
| 1990 | 53 | 5.7% | 23 | 42.8% | 14 | 25.5% | 4 | 7.7% | 13 | 24.0% | 0 | 0.0% |
| 1991 | 75 | 5.3% | 28 | 36.9% | 24 | 32.5% | 4 | 5.7% | 19 | 24.8% | 0 | 0.0% |
| 1992 | 63 | 7.9% | 16 | 25.7% | 23 | 36.3% | 7 | 11.3% | 17 | 26.7% | 0 | 0.0% |
| 1993 | 60 | 10.0% | 22 | 36.3% | 19 | 31.7% | 5 | 8.3% | 12 | 20.3% | 2 | 3.3% |
| 1994 | 79 | 13.9% | 25 | 32.2% | 25 | 31.0% | 3 | 4.3% | 26 | 32.5% | 0 | 0.0% |
| 1995 | 70 | 12.9% | 30 | 42.9% | 17 | 24.6% | 2 | 2.3% | 21 | 30.3% | 0 | 0.0% |
| 1996 | 50 | 12.0% | 12 | 24.6% | 14 | 27.6% | 8 | 16.2% | 16 | 31.6% | 0 | 0.0% |
| 1997 | 54 | 9.3% | 17 | 31.9% | 19 | 35.0% | 2 | 3.0% | 15 | 28.3% | 1 | 1.9% |
| 1998 | 66 | 15.2% | 20 | 30.5% | 22 | 32.7% | 5 | 7.0% | 20 | 29.8% | 0 | 0.0% |
| 1999 | 61 | 8.2% | 16 | 26.7% | 11 | 17.4% | 7 | 11.8% | 27 | 44.1% | 0 | 0.0% |
| 2000 | 35 | 8.6% | 7 | 20.3% | 9 | 24.3% | 3 | 8.9% | 16 | 46.6% | 0 | 0.0% |
| 2001 | 53 | 5.7% | 17 | 31.5% | 10 | 18.1% | 1 | 1.9% | 26 | 48.5% | 0 | 0.0% |
| 2002 | 35 | 22.9% | 14 | 40.9% | 11 | 32.0% | 1 | 3.7% | 8 | 23.4% | 0 | 0.0% |
| 2003 | 46 | 10.9% | 17 | 35.9% | 13 | 28.3% | 3 | 6.7% | 13 | 29.1% | 0 | 0.0% |
| 2004 | 43 | 16.3% | 12 | 27.0% | 12 | 28.8% | 1 | 2.6% | 18 | 41.6% | 0 | 0.0% |
| 2005 | 46 | 23.9% | 18 | 38.0% | 7 | 15.0% | 1 | 2.6% | 20 | 44.3% | 0 | 0.0% |
| 2006 | 49 | 16.3% | 20 | 41.0% | 10 | 19.6% | 0 | 0.8% | 18 | 36.5% | 1 | 2.0% |
| 2007 | 35 | 20.0% | 14 | 40.3% | 6 | 17.7% | 1 | 3.4% | 14 | 38.6% | 0 | 0.0% |
| 2008 | 37 | 27.0% | 15 | 40.8% | 9 | 25.1% | 1 | 3.0% | 12 | 31.1% | 0 | 0.0% |
| 2009 | 40 | 17.5% | 23 | 58.5% | 3 | 7.5% | 2 | 5.0% | 12 | 29.0% | 0 | 0.0% |
| 2010 | 41 | 24.4% | 28 | 67.1% | 2 | 3.7% | 0 | 0.0% | 12 | 29.3% | 0 | 0.0% |
| 2011 | 45 | 17.8% | 24 | 54.0% | 2 | 4.2% | 0 | 0.0% | 19 | 41.8% | 0 | 0.0% |
| 2012 | 26 | 15.4% | 10 | 39.6% | 2 | 7.3% | 1 | 3.8% | 13 | 49.2% | 0 | 0.0% |
| 2013 | 30 | 13.3% | 19 | 62.0% | 2 | 7.0% | 0 | 0.0% | 9 | 31.0% | 0 | 0.0% |
| 2014 | 34 | 20.6% | 19 | 55.9% | 2 | 6.2% | 0 | 0.6% | 13 | 37.4% | 0 | 0.0% |
| 2015 | 39 | 12.8% | 19 | 48.7% | 1 | 3.3% | 0 | 0.3% | 19 | 47.7% | 0 | 0.0% |
| 2016 | 41 | 9.8% | 23 | 57.1% | 1 | 1.5% | 1 | 2.4% | 16 | 39.0% | 0 | 0.0% |
| 2017 | 32 | 6.3% | 23 | 71.9% | 2 | 7.2% | 0 | 0.0% | 7 | 20.9% | 0 | 0.0% |
| 2018 | 32 | 6.3% | 21 | 66.6% | 1 | 3.1% | 0 | 0.0% | 10 | 30.3% | 0 | 0.0% |
| Total | 1,577 | 12.2% | 649 | 41.2% | 355 | 22.5% | 79 | 5.0% | 484 | 30.7% | 12 | 0.8% |

§ Multiple imputation was used to estimate and adjust for missing transmission category.

¥Percent with no reported exposure prior to multiple imputation adjustment.

*Note.* Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of people missing transmission category after multiple imputation.

# Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.[1] utilize a continuum of care "cascade" to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

## Figure 8 – Prevalence-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Eastern Region Residents Aged 13+, Reported through June 30, 2019

The prevalence-based Eastern Region Engagement in HIV Care Cascades (below) apply the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 30, 2019, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of people living with HIV currently residing in the Eastern Region. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Eastern Region on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 who belong to each of the stages of engagement in HIV care.

**Prevalence-Based Estimated HIV Continuum of Care Among People Aged 13+, 2018**
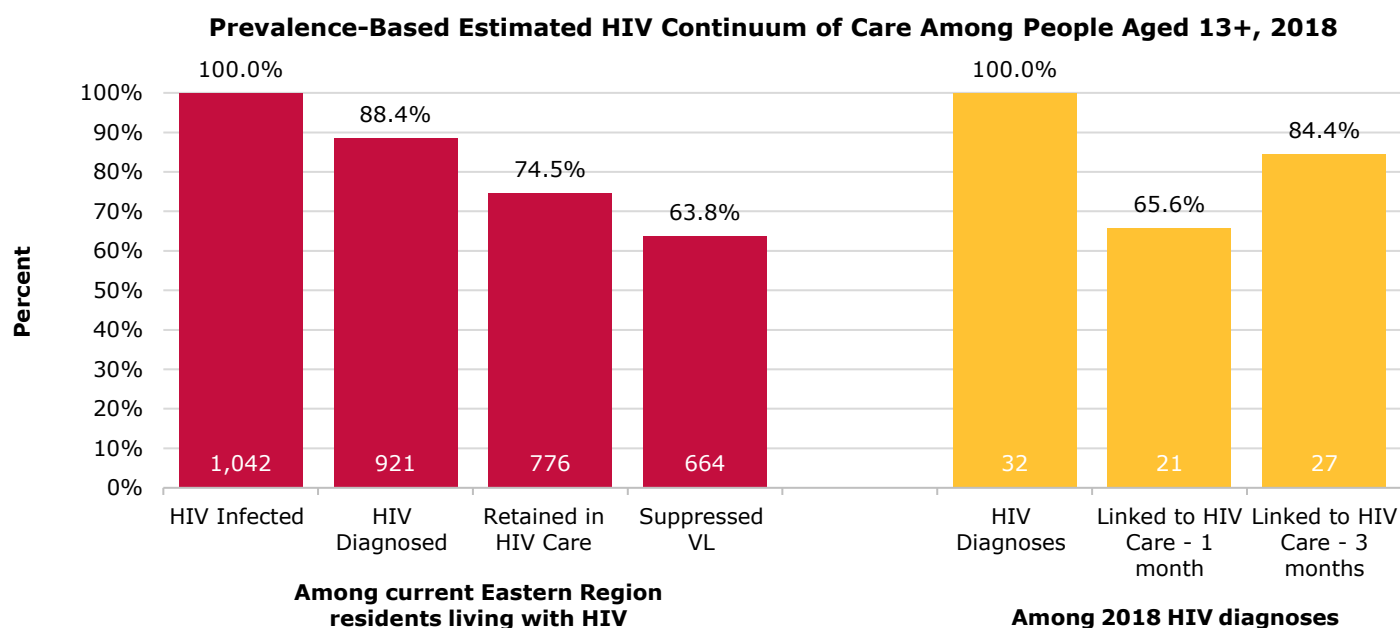


| Continuum of Care Stage | People Aged 13+ Living with HIV | | Continuum of Care Stage | Reported 2018 HIV Diagnoses | |
|---|---|---|---|---|---|
| | Number | Percent | | Number | Percent |
| HIV Infected | 1,042 | 100.0% | New HIV Diagnoses | 32 | 100.0% |
| HIV Diagnosed | 921 | 88.4% | Linked to HIV Care – 1 Month | 21 | 65.6% |
| Retained in HIV Care | 776 | 74.5% | Linked to HIV Care – 3 Months | 27 | 84.4% |
| Suppressed VL | 664 | 63.8% | | | |

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[1] Gardner et al, "The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection." Clin Infect Dis. 2011; 52 (6): 793-800.
[2] Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2010–2015. HIV Surveillance Supplemental Report 2018;23(No. 1). http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published March 2018.

# Figure 9 – Diagnosis-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Eastern Region Residents Aged 13+, Reported through June 30, 2019

The diagnosis-based Eastern Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Eastern Region residents to describe the number and percentage of persons living with diagnosed HIV in the Eastern Region on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 who belong to each of the stages of engagement in HIV care.

**Diagnosis-Based Estimated HIV Continuum of Care Among People Aged 13+, 2018**
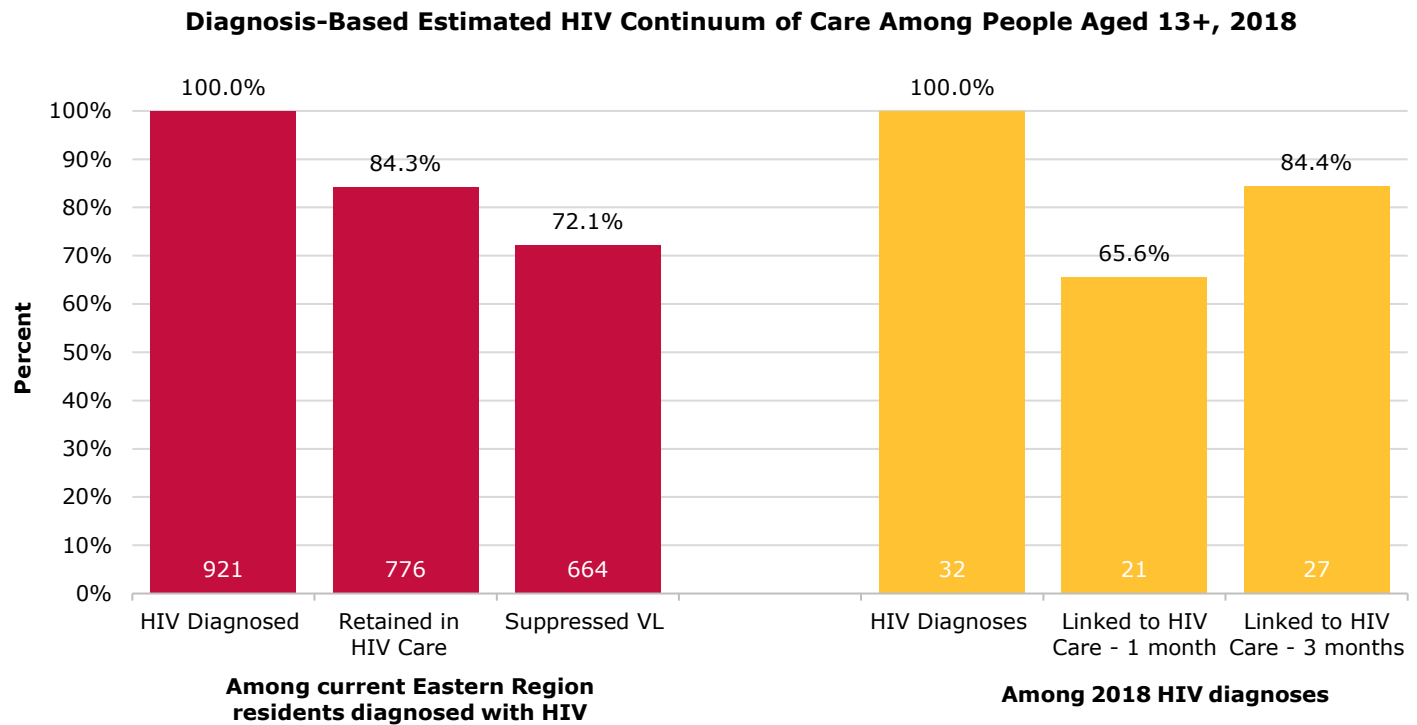


| Continuum of Care Stage | People Aged 13+ Living with HIV | | Continuum of Care Stage | Reported 2018 HIV Diagnoses | |
|---|---|---|---|---|---|
| | Number | Percent | | Number | Percent |
| HIV Diagnosed | 921 | 100.0% | New HIV Diagnoses | 32 | 100.0% |
| Retained in HIV Care | 776 | 84.3% | Linked to HIV Care – 1 Month | 21 | 65.6% |
| Suppressed VL | 664 | 72.1% | Linked to HIV Care – 3 Months | 27 | 84.4% |

## Section IV –Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

Table 1 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2019

| Jurisdiction of Residence at HIV Diagnosis | Population Age 13+ | Reported HIV Diagnoses Among People Aged 13+ | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | No. | % of Total | Rate | Linked to Care | | Late HIV Diagnoses | First CD4 Test Result | |
| | | | | | % 1 mo. | % 3 mo. | % | % with Test | Median Count |
| Caroline | 27,707 | 0 | 0.0% | 0.0 | -- | -- | -- | -- | -- |
| Cecil | 86,608 | 8 | 25.0% | 9.2 | 75.0% | 100.0% | *** | 87.50% | 403 |
| Dorchester | 27,228 | 0 | 0.0% | 0.0 | -- | -- | -- | -- | -- |
| Kent | 17,222 | 1 | 3.1% | 5.8 | *** | *** | *** | *** | *** |
| Queen Anne's | 42,794 | 3 | 9.4% | 7.0 | *** | *** | *** | *** | *** |
| Somerset | 22,469 | 5 | 15.6% | 22.3 | 100.0% | 100.0% | *** | 100.0% | 300 |
| Talbot | 32,218 | 3 | 9.4% | 9.3 | *** | *** | *** | *** | *** |
| Wicomico | 86,947 | 11 | 34.4% | 12.7 | 54.5% | 81.8% | *** | 90.9% | 417 |
| Worcester | 45,604 | 1 | 3.1% | 2.2 | *** | *** | *** | *** | *** |
| **Total** | 388,797 | 32 | 100.0% | 8.2 | 65.6% | 84.4% | 15.6% | 90.6% | 436 |

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

Table 2 – Reported AIDS Diagnoses, Among People Aged 13+ During 2018, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2019

| Jurisdiction of Residence at AIDS Diagnosis | Population Age 13+ | Reported AIDS Diagnoses Among People Aged 13+ | | | | |
|---|---|---|---|---|---|---|
| | | No. | % of Total | Rate | Mean Years from HIV Diagnosis | % Late HIV Diagnosis |
| Caroline | 27,707 | 0 | 0.0% | 0.0 | -- | -- |
| Cecil | 86,608 | 4 | 28.6% | 4.6 | *** | *** |
| Dorchester | 27,228 | 1 | 7.1% | 3.7 | *** | *** |
| Kent | 17,222 | 0 | 0.0% | 0.0 | -- | -- |
| Queen Anne's | 42,794 | 1 | 7.1% | 2.3 | *** | *** |
| Somerset | 22,469 | 1 | 7.1% | 4.5 | *** | *** |
| Talbot | 32,218 | 1 | 7.1% | 3.1 | *** | *** |
| Wicomico | 86,947 | 6 | 42.9% | 6.9 | 6.8 | 33.3% |
| Worcester | 45,604 | 0 | 0.0% | 0.0 | -- | -- |
| **Total** | 388,797 | 14 | 100.0% | 4.7 | 9.1 | 35.7% |

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

## Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2019

| Jurisdiction of Residence | Population Age 13+ | Total People Aged 13+ Living with Diagnosed HIV | | | | | | | | % Change |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Residence at Diagnosis | | | | Current Residence | | | | |
| | | No. | % of Total | Rate | Ratio (1 in X) | No. | % of Total | Rate | Ratio (1 in X) | |
| Caroline | 27,707 | 65 | 7.8% | 234.6 | 426 | 59 | 6.4% | 212.9 | 470 | -9.2% |
| Cecil | 86,608 | 118 | 14.1% | 136.2 | 734 | 143 | 15.5% | 165.1 | 606 | 21.2% |
| Dorchester | 27,228 | 129 | 15.4% | 473.8 | 211 | 148 | 16.1% | 543.6 | 184 | 14.7% |
| Kent | 17,222 | 37 | 4.4% | 214.8 | 465 | 41 | 4.5% | 238.1 | 420 | 10.8% |
| Queen Anne's | 42,794 | 52 | 6.2% | 121.5 | 823 | 48 | 5.2% | 112.2 | 892 | -7.7% |
| Somerset | 22,469 | 59 | 7.0% | 262.6 | 381 | 69 | 7.5% | 307.1 | 326 | 16.9% |
| Talbot | 32,218 | 65 | 7.8% | 201.8 | 496 | 77 | 8.4% | 239.0 | 418 | 18.5% |
| Wicomico | 86,947 | 236 | 28.2% | 271.4 | 368 | 249 | 27.0% | 286.4 | 349 | 5.5% |
| Worcester | 45,604 | 76 | 9.1% | 166.7 | 600 | 87 | 9.4% | 190.8 | 524 | 14.5% |
| **Total** | 388,797 | 837 | 100.0% | 215.3 | 465 | 921 | 100.0% | 236.9 | 422 | 10.0% |

## Table 4 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

| Jurisdiction of Current Residence | Total People Aged 13+ Living with Diagnosed HIV | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | No. | Recent CD4 Test Result | | | | | | |
| | | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ |
| Caroline | 59 | 50 | 84.7% | 651 | 4.0% | 8.0% | 22.0% | 66.0% |
| Cecil | 143 | 98 | 68.5% | 603 | 9.2% | 13.3% | 15.3% | 62.2% |
| Dorchester | 148 | 127 | 85.8% | 586 | 7.9% | 12.6% | 18.9% | 60.6% |
| Kent | 41 | 34 | 82.9% | 708 | 2.9% | 5.9% | 17.6% | 73.5% |
| Queen Anne's | 48 | 40 | 83.3% | 673 | 7.5% | 15.0% | 12.5% | 65.0% |
| Somerset | 69 | 56 | 81.2% | 554 | 16.1% | 17.9% | 10.7% | 55.4% |
| Talbot | 77 | 65 | 84.4% | 473 | 16.9% | 16.9% | 18.5% | 47.7% |
| Wicomico | 249 | 204 | 81.9% | 538 | 11.8% | 15.7% | 16.2% | 56.4% |
| Worcester | 87 | 73 | 83.9% | 618 | 6.8% | 12.3% | 11.0% | 69.9% |
| **Total** | 921 | 747 | 81.1% | 588 | 9.9% | 13.8% | 16.1% | 60.2% |

## Table 5 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

| Jurisdiction of Current Residence | Total People Aged 13+ Living with Diagnosed HIV | | | | |
|---|---|---|---|---|---|
| | No. | Recent Viral Load Test Result | | | |
| | | No. with Test | % with Test | % Suppressed | Median Unsuppressed |
| Caroline | 59 | 50 | 84.7% | 90.0% | 720 |
| Cecil | 143 | 99 | 69.2% | 78.8% | 20,000 |
| Dorchester | 148 | 123 | 83.1% | 90.2% | 8,390 |
| Kent | 41 | 35 | 85.4% | 94.3% | 331,500 |
| Queen Anne's | 48 | 39 | 81.3% | 94.9% | 44,507 |
| Somerset | 69 | 56 | 81.2% | 80.4% | 11,580 |
| Talbot | 77 | 67 | 87.0% | 91.0% | 62,750 |
| Wicomico | 249 | 199 | 79.9% | 91.0% | 6,285 |
| Worcester | 87 | 75 | 86.2% | 97.3% | 62,455 |
| **Total** | 921 | 743 | 80.7% | 89.4% | 18,100 |

# Section V – People Living with Diagnosed HIV by Age

Table 6 – Reported HIV Diagnoses During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2019

| Age at HIV Diagnosis | Population | Reported HIV Diagnoses | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | No. | % of Total | Rate | Linked to Care | | Late HIV Diagnoses | First CD4 Test Result | | |
| | | | | | % 1 mo. | % 3 mo. | % | % with Test | Median Count | |
| <5 (Pediatric) | 24,313 | 0 | 0.0% | 0.0 | -- | -- | -- | -- | -- | |
| 5-12 (Pediatric) | 42,313 | 0 | 0.0% | 0.0 | -- | -- | -- | -- | -- | |
| 13-19 | 41,503 | 1 | 3.1% | 2.4 | *** | *** | *** | *** | *** | |
| 20-29 | 58,536 | 12 | 37.5% | 20.5 | 58.3% | 75.0% | 0.0% | 91.7% | 473 | |
| 30-39 | 50,412 | 8 | 25.0% | 15.9 | 87.5% | 100.0% | *** | 87.5% | 467 | |
| 40-49 | 51,356 | 3 | 9.4% | 5.8 | *** | *** | *** | *** | *** | |
| 50-59 | 65,517 | 6 | 18.8% | 9.2 | *** | 83.3% | *** | 100.0% | 425 | |
| 60+ | 121,473 | 2 | 6.3% | 1.6 | *** | *** | *** | *** | *** | |
| **Total** | 455,423 | 32 | 100.0% | 7.0 | 65.6% | 84.4% | 15.6% | 90.6% | 436 | |

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

Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

| Age on December 31, 2018 | Population | Total People Living with Diagnosed HIV | | | |
|---|---|---|---|---|---|
| | | No. | % of Total | Rate | Ratio (1 in X) |
| <5 (Pediatric) | 24,313 | 0 | 0.0% | 0.0 | -- |
| 5-12 (Pediatric) | 42,313 | 4 | 0.4% | 9.5 | 10,578 |
| 13-19 | 41,503 | 5 | 0.5% | 12.0 | 8,301 |
| 20-29 | 58,536 | 85 | 9.2% | 145.2 | 689 |
| 30-39 | 50,412 | 132 | 14.3% | 261.8 | 382 |
| 40-49 | 51,356 | 180 | 19.5% | 350.5 | 285 |
| 50-59 | 65,517 | 315 | 34.1% | 480.8 | 208 |
| 60+ | 121,473 | 204 | 22.1% | 167.9 | 595 |
| **Total** | 455,423 | 925 | 100.0% | 203.1 | 492 |

Table 8 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

| Age on December 31, 2018 | No. | Total People Aged 13+ Living with Diagnosed HIV | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Recent CD4 Test Results | | | | | | |
| | | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ |
| 13-19 | 5 | *** | *** | *** | *** | *** | *** | *** |
| 20-29 | 85 | *** | *** | *** | *** | *** | *** | *** |
| 30-39 | 132 | 112 | 84.8% | 540 | 18.8% | 14.3% | 9.8% | 57.1% |
| 40-49 | 180 | 145 | 80.6% | 585 | 9.0% | 20.0% | 15.9% | 55.2% |
| 50-59 | 315 | 254 | 80.6% | 590 | 9.8% | 12.6% | 17.7% | 59.8% |
| 60+ | 204 | 170 | 83.3% | 602 | 5.9% | 11.2% | 19.4% | 63.5% |
| **Total** | 921 | 747 | 81.1% | 588 | 9.9% | 13.8% | 16.1% | 60.2% |

## Table 9 – Viral Load Test Results During 2018 for People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

| Age on December 31, 2018 | Total People Aged 13+ Living with Diagnosed HIV | | | | |
|---|---|---|---|---|---|
| | No. | Recent Viral Load Test Result | | | |
| | | No. with Test | % with Test | % Suppressed | Median Unsuppressed |
| 13-19 | 5 | *** | *** | *** | *** |
| 20-29 | 85 | *** | *** | *** | *** |
| 30-39 | 132 | 106 | 80.3% | 82.1% | 31,080 |
| 40-49 | 180 | 144 | 80.0% | 88.2% | 7,830 |
| 50-59 | 315 | 256 | 81.3% | 91.0% | 20,800 |
| 60+ | 204 | 169 | 82.8% | 94.7% | 5,190 |
| **Total** | 921 | 743 | 80.7% | 89.4% | 18,100 |

# Section VI – People Aged 13+ Living with Diagnosed HIV by Demographics

Table 10 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2019

| Demographic Characteristics | Population Age 13+ | Reported HIV Diagnoses Among People Aged 13+ | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | No. | % of Total | Rate | Linked to Care | | Late HIV Diagnoses | First CD4 Test Result | |
| | | | | | % 1 mo. | % 3 mo. | % | % with Test | Median Count |
| **Sex at Birth** | | | | | | | | | |
| Male | 188,164 | 23 | 71.9% | 12.2 | 56.5% | 78.3% | *** | 87.0% | 468 |
| Female | 200,632 | 9 | 28.1% | 4.5 | 88.9% | 100.0% | *** | 100.0% | 377 |
| | | | | | | | | | |
| **Gender** | | | | | | | | | |
| Male | 188,164 | 23 | 71.9% | 12.2 | 56.5% | 78.3% | *** | 87.0% | 468 |
| Female | 200,632 | 9 | 28.1% | 4.5 | 88.9% | 100.0% | *** | 100.0% | 377 |
| Transgender Female | -- | 0 | 0.0% | -- | -- | -- | -- | -- | -- |
| Transgender Male | -- | 0 | 0.0% | -- | -- | -- | -- | -- | -- |
| Another Gender Identity | -- | 0 | 0.0% | -- | -- | -- | -- | -- | -- |
| | | | | | | | | | |
| **Race/Ethnicity** | | | | | | | | | |
| **Hispanic** | 16,075 | 2 | 6.3% | 12.4 | *** | *** | *** | *** | *** |
| **Non-Hispanic** | 372,721 | 30 | 93.8% | 8.0 | 66.7% | 83.3% | *** | 90.0% | 467 |
| American Indian/Alaska Native, only | 1,038 | 0 | 0.0% | 0.0 | -- | -- | -- | -- | -- |
| Asian, only | 6,342 | 1 | 3.1% | 15.8 | *** | *** | *** | *** | *** |
| Black, only | 62,618 | 21 | 65.6% | 33.5 | 76.2% | 90.5% | *** | 95.2% | 452 |
| Native Hawaiian/Other Pacific Islander, only | 141 | 0 | 0.0% | 0.0 | -- | -- | -- | -- | -- |
| White, only | 296,752 | 7 | 21.9% | 2.4 | *** | 71.4% | *** | 71.4% | 473 |
| Multiracial/Other | 5,832 | 1 | 3.1% | 17.1 | *** | *** | *** | *** | *** |
| | | | | | | | | | |
| **Total** | 388,797 | 32 | 100.0% | 8.2 | 65.6% | 84.4% | 15.6% | 90.6% | 436 |
| | | | | | | | | | |
| **Country of Birth** | | | | | | | | | |
| **United States** | 362,470 | 25 | 78.1% | 6.9 | 60.0% | 80.0% | *** | 88.0% | 468 |
| **Foreign-Born** | 22,594 | 7 | 21.9% | 31.0 | 85.7% | 100.0% | *** | 100.0% | 403 |
| Africa | -- | 3 | 9.4% | -- | *** | *** | *** | *** | *** |
| Asia | -- | 0 | 0.0% | -- | -- | -- | -- | -- | -- |
| Caribbean | -- | 3 | 9.4% | -- | *** | *** | *** | *** | *** |
| Central America | -- | 1 | 3.1% | -- | *** | *** | *** | *** | *** |
| Other | -- | 0 | 0.0% | -- | -- | -- | -- | -- | -- |
| **Unknown** | -- | 0 | 0.0% | -- | -- | -- | -- | -- | -- |
| **Total** | 385,064 | 32 | 100.0% | 8.3 | 65.6% | 84.4% | 15.6% | 90.6% | 436 |

*Note*. Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

*** Data withheld due to low population counts and/or small numbers

## Table 11 – People Aged 13+ Living with Diagnosed HIV Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2019

| Demographic Characteristics | Population Age 13+ | Total People Aged 13+ Living with Diagnosed HIV | | | |
|---|---|---|---|---|---|
| | | No. | % of Total | Rate | Ratio (1 in X) |
| **Sex at Birth** | | | | | |
| Male | 188,164 | 633 | 68.7% | 336.4 | 297 |
| Female | 200,632 | 288 | 31.3% | 143.5 | 697 |
| | | | | | |
| **Gender** | | | | | |
| Male | 188,164 | 625 | 67.9% | 332.2 | 301 |
| Female | 200,632 | 288 | 31.3% | 143.5 | 697 |
| Transgender Female | -- | 7 | 0.8% | -- | -- |
| Transgender Male | -- | 0 | 0.0% | -- | -- |
| Another Gender Identity | -- | 1 | 0.1% | -- | -- |
| | | | | | |
| **Race/Ethnicity** | | | | | |
| **Hispanic** | 16,075 | 58 | 6.3% | 360.8 | 277 |
| **Non-Hispanic** | 372,721 | 863 | 93.7% | 231.5 | 432 |
| American Indian/Alaska Native, only | 1,038 | 0 | 0.0% | 0.0 | -- |
| Asian, only | 6,342 | 4 | 0.4% | 63.1 | 1,585 |
| Black, only | 62,618 | 524 | 56.9% | 836.8 | 119 |
| Native Hawaiian/Other Pacific Islander, only | 141 | 0 | 0.0% | 0.0 | -- |
| White, only | 296,752 | 268 | 29.1% | 90.3 | 1,107 |
| Multiracial/Other | 5,832 | 67 | 7.3% | 1,148.9 | 87 |
| | | | | | |
| **Total** | 388,797 | 921 | 100.0% | 236.9 | 422 |
| | | | | | |
| **Country of Birth** | | | | | |
| **United States** | 362,470 | 835 | 90.7% | 230.4 | 434 |
| **Foreign-Born** | 22,594 | 75 | 8.1% | 332.0 | 301 |
| Africa | -- | 16 | 1.7% | -- | -- |
| Asia | -- | 2 | 0.2% | -- | -- |
| Caribbean | -- | 35 | 3.8% | -- | -- |
| Central America | -- | 15 | 1.6% | -- | -- |
| Other | -- | 7 | 0.8% | -- | -- |
| **Unknown** | -- | 11 | 1.2% | -- | -- |
| **Total** | 385,064 | 921 | 100.0% | 239.2 | 418 |

*Note.* Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

# Table 12 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019

| Demographic Characteristics | Total People Aged 13+ Living with Diagnosed HIV | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | No. | Recent CD4 Test Result | | | | | | |
| | | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ |
| **Sex at Birth** | | | | | | | | |
| Male | 633 | 510 | 80.6% | 566 | 9.6% | 14.5% | 17.5% | 58.4% |
| Female | 288 | 237 | 82.3% | 642 | 10.5% | 12.2% | 13.1% | 64.1% |
| | | | | | | | | |
| **Gender** | | | | | | | | |
| Male | 625 | 502 | 80.3% | 567 | 9.6% | 14.3% | 17.5% | 58.6% |
| Female | 288 | 237 | 82.3% | 642 | 10.5% | 12.2% | 13.1% | 64.1% |
| Transgender Female | 7 | *** | *** | *** | *** | *** | *** | *** |
| Transgender Male | 0 | -- | -- | -- | -- | -- | -- | -- |
| Another Gender Identity | 1 | *** | *** | *** | *** | *** | *** | *** |
| | | | | | | | | |
| **Race/Ethnicity** | | | | | | | | |
| **Hispanic** | 58 | 37 | 63.8% | 593 | 16.2% | 16.2% | 8.1% | 59.5% |
| **Non-Hispanic** | 863 | 710 | 82.3% | 588 | 9.6% | 13.7% | 16.5% | 60.3% |
| American Indian/Alaska Native, only | 0 | -- | -- | -- | -- | -- | -- | -- |
| Asian, only | 4 | *** | *** | *** | *** | *** | *** | *** |
| Black, only | 524 | 432 | 82.4% | 578 | 9.0% | 14.4% | 17.4% | 59.3% |
| Native Hawaiian/Other Pacific Islander, only | 0 | -- | -- | -- | -- | -- | -- | -- |
| White, only | 268 | 217 | 81.0% | 600 | 10.1% | 13.8% | 12.9% | 63.1% |
| Multiracial/Other | 67 | *** | *** | *** | *** | *** | *** | *** |
| | | | | | | | | |
| **Country of Birth** | | | | | | | | |
| **United States** | 835 | 679 | 81.3% | 594 | 10.0% | 12.5% | 16.6% | 60.8% |
| **Foreign-Born** | 75 | 60 | 80.0% | 503 | 10.0% | 26.7% | 11.7% | 51.7% |
| Africa | 16 | 14 | 87.5% | 418 | 14.3% | 14.3% | 28.6% | 42.9% |
| Asia | 2 | *** | *** | *** | *** | *** | *** | *** |
| Caribbean | 35 | 27 | 77.1% | 468 | 7.4% | 33.3% | 11.1% | 48.1% |
| Central America | 15 | 10 | 66.7% | 596 | 10.0% | 20.0% | 0.0% | 70.0% |
| Other | 7 | *** | *** | *** | *** | *** | *** | *** |
| **Unknown** | 11 | 8 | 72.7% | 618 | 0.0% | 25.0% | 0.0% | 75.0% |
| **Total** | 921 | 747 | 81.1% | 588 | 9.9% | 13.8% | 16.1% | 60.2% |

*** Data withheld due to low population counts and/or small numbers

## Table 13 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019

| Demographic Characteristics | No. | Total People Aged 13+ Living with Diagnosed HIV | | | |
|---|---|---|---|---|---|
| | | Recent Viral Load Test Result | | | |
| | | No. with Test | % with Test | % Suppressed | Median Unsuppressed |
| **Sex at Birth** | | | | | |
| Male | 633 | 514 | 81.2% | 90.3% | 12,940 |
| Female | 288 | 229 | 79.5% | 87.3% | 20,000 |
| | | | | | |
| **Gender** | | | | | |
| Male | 625 | 506 | 81.0% | 90.5% | 10,710 |
| Female | 288 | 229 | 79.5% | 87.3% | 20,000 |
| Transgender Female | 7 | *** | *** | *** | *** |
| Transgender Male | 0 | -- | -- | -- | -- |
| Another Gender Identity | 1 | *** | *** | *** | *** |
| | | | | | |
| **Race/Ethnicity** | | | | | |
| **Hispanic** | 58 | 38 | 65.5% | 84.2% | 10,980 |
| **Non-Hispanic** | 863 | 705 | 81.7% | 89.6% | 18,100 |
| American Indian/Alaska Native, only | 0 | -- | -- | -- | -- |
| Asian, only | 4 | *** | *** | *** | *** |
| Black, only | 524 | 426 | 81.3% | 88.3% | 17,200 |
| Native Hawaiian/Other Pacific Islander, only | 0 | -- | -- | -- | -- |
| White, only | 268 | 220 | 82.1% | 92.3% | 7,830 |
| Multiracial/Other | 67 | *** | *** | *** | *** |
| | | | | | |
| **Country of Birth** | | | | | |
| **United States** | 835 | 678 | 81.2% | 89.5% | 19,000 |
| **Foreign-Born** | 75 | 59 | 78.7% | 86.4% | 8,385 |
| Africa | 16 | 14 | 87.5% | 92.9% | 380 |
| Asia | 2 | *** | *** | *** | *** |
| Caribbean | 35 | 27 | 77.1% | 85.2% | 15,340 |
| Central America | 15 | 9 | 60.0% | 77.8% | 10,110 |
| Other | 7 | *** | *** | *** | *** |
| **Unknown** | 11 | 6 | 54.5% | 100.0% | -- |
| **Total** | 921 | 743 | 80.7% | 89.4% | 18,100 |

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

# Section VII – People Living with Diagnosed HIV by Expanded Demographics

Figure 10 – Population Pyramids of Total People Living with Diagnosed HIV, by Age on December 31, 2018, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019



**Total People Living with Diagnosed HIV by Age and Sex**

**Non-Hispanic Whites Living with Diagnosed HIV by Age and Sex**

**Hispanics Living with Diagnosed HIV by Age and Sex**

**Non-Hispanic Blacks Living with Diagnosed HIV by Age and Sex**

Male        Female

# Table 14 – Total Males Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

| Age on December 31, 2018 | | Total Males Living with Diagnosed HIV | | | | |
|---|---|---|---|---|---|---|
| | | **Race/Ethnicity** | | | | **Total Males by Age Group** |
| | | **Hispanic** | **Non-Hispanic Black, only** | **Non-Hispanic White, only** | **Non-Hispanic Other Race** | |
| <13 (Pediatric) | Population | 3,436 | 6,467 | 21,450 | 2,606 | 33,960 |
| | Number | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Ratio (1 in X) | -- | -- | -- | -- | -- |
| 13-19 | Population | 1,499 | 4,198 | 13,983 | 1,225 | 20,904 |
| | Number | 0 | 2 | 0 | 1 | 3 |
| | Rate | 0.0 | 47.6 | 0.0 | 81.7 | 14.4 |
| | Ratio (1 in X) | -- | 2,099 | -- | 1,225 | 6,968 |
| 20-29 | Population | 1,701 | 6,458 | 19,923 | 1,237 | 29,319 |
| | Number | 5 | 50 | 7 | 5 | 67 |
| | Rate | 293.9 | 774.2 | 35.1 | 404.2 | 228.5 |
| | Ratio (1 in X) | 340 | 129 | 2,846 | 247 | 438 |
| 30-39 | Population | 2,029 | 4,583 | 17,658 | 851 | 25,121 |
| | Number | *** | 49 | 17 | *** | 85 |
| | Rate | *** | 1,069.2 | 96.3 | *** | 338.4 |
| | Ratio (1 in X) | *** | 94 | 1,039 | *** | 296 |
| 40-49 | Population | 1,433 | 4,132 | 18,769 | 855 | 25,189 |
| | Number | *** | 54 | 31 | *** | 106 |
| | Rate | *** | 1,306.9 | 165.2 | *** | 420.8 |
| | Ratio (1 in X) | *** | 77 | 605 | *** | 238 |
| 50-59 | Population | 1,033 | 4,701 | 25,264 | 791 | 31,789 |
| | Number | *** | 107 | 95 | *** | 228 |
| | Rate | *** | 2,276.1 | 376.0 | *** | 717.2 |
| | Ratio (1 in X) | *** | 44 | 266 | *** | 139 |
| 60+ | Population | 764 | 6,282 | 47,559 | 1,237 | 55,842 |
| | Number | *** | 70 | 61 | *** | 144 |
| | Rate | *** | 1,114.3 | 128.3 | *** | 257.9 |
| | Ratio (1 in X) | *** | 90 | 780 | *** | 388 |
| Total Males by Race/Ethnicity | Population | 11,895 | 36,821 | 164,606 | 8,802 | 222,124 |
| | Number | 40 | 332 | 211 | 50 | 633 |
| | Rate | 336.3 | 901.7 | 128.2 | 568.1 | 285.0 |
| | Ratio (1 in X) | 297 | 111 | 780 | 176 | 351 |

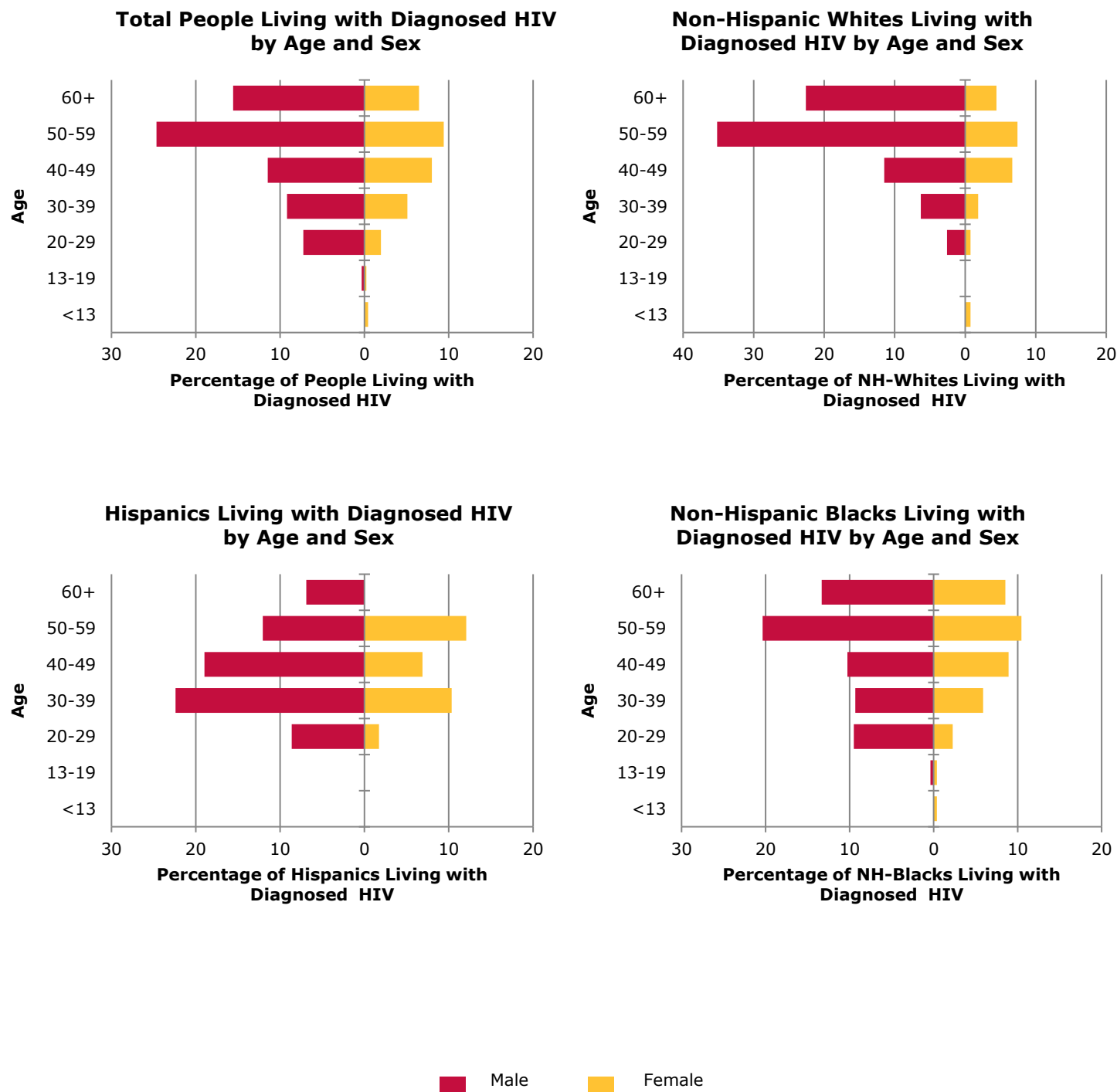*** Data withheld due to low population counts and/or small numbers

## Table 15 – Total Females Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

| Age on December 31, 2018 | | Race/Ethnicity | | | | Total Females by Age Group |
|---|---|---|---|---|---|---|
| | | Hispanic | Non-Hispanic Black, only | Non-Hispanic White, only | Non-Hispanic Other Race | |
| <13 (Pediatric) | Population | 3,384 | 6,359 | 20,543 | 2,380 | 32,667 |
| | Number | 0 | 2 | 2 | 0 | 4 |
| | Rate | 0.0 | 31.5 | 9.7 | 0.0 | 12.2 |
| | Ratio (1 in X) | -- | 3,180 | 10,272 | -- | 8,167 |
| 13-19 | Population | 1,462 | 3,998 | 13,816 | 1,323 | 20,598 |
| | Number | 0 | 2 | 0 | 0 | 2 |
| | Rate | 0.0 | 50.0 | 0.0 | 0.0 | 9.7 |
| | Ratio (1 in X) | -- | 1,999 | -- | -- | 10,299 |
| 20-29 | Population | 1,461 | 5,931 | 20,272 | 1,553 | 29,217 |
| | Number | 1 | 12 | 2 | 3 | 18 |
| | Rate | 68.4 | 202.3 | 9.9 | 193.2 | 61.6 |
| | Ratio (1 in X) | 1,461 | 494 | 10,136 | 518 | 1,623 |
| 30-39 | Population | 1,684 | 4,506 | 18,055 | 1,046 | 25,291 |
| | Number | 6 | 31 | 5 | 5 | 47 |
| | Rate | 356.3 | 688.0 | 27.7 | 478.0 | 185.8 |
| | Ratio (1 in X) | 281 | 145 | 3,611 | 209 | 538 |
| 40-49 | Population | 1,397 | 4,185 | 19,625 | 960 | 26,167 |
| | Number | *** | 47 | 18 | *** | 74 |
| | Rate | *** | 1,123.1 | 91.7 | *** | 282.8 |
| | Ratio (1 in X) | *** | 89 | 1,090 | *** | 354 |
| 50-59 | Population | 816 | 5,112 | 26,903 | 897 | 33,728 |
| | Number | *** | 55 | 20 | *** | 87 |
| | Rate | *** | 1,075.9 | 74.3 | *** | 257.9 |
| | Ratio (1 in X) | *** | 93 | 1,345 | *** | 388 |
| 60+ | Population | 796 | 8,532 | 54,925 | 1,378 | 65,631 |
| | Number | 0 | 45 | 12 | 3 | 60 |
| | Rate | 0.0 | 527.4 | 21.8 | 217.7 | 91.4 |
| | Ratio (1 in X) | -- | 190 | 4,577 | 459 | 1,094 |
| Total Females by Race/Ethnicity | Population | 11,000 | 38,623 | 174,139 | 9,537 | 233,299 |
| | Number | 18 | 194 | 59 | 21 | 292 |
| | Rate | 163.6 | 502.3 | 33.9 | 220.2 | 125.2 |
| | Ratio (1 in X) | 611 | 199 | 2,952 | 454 | 799 |

*** Data withheld due to low population counts and/or small numbers

## Section VIII – HIV Exposure Category

Figure 11 – Proportion of Total People Aged 13+ Living with Diagnosed HIV, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, Reported through June 30, 2019
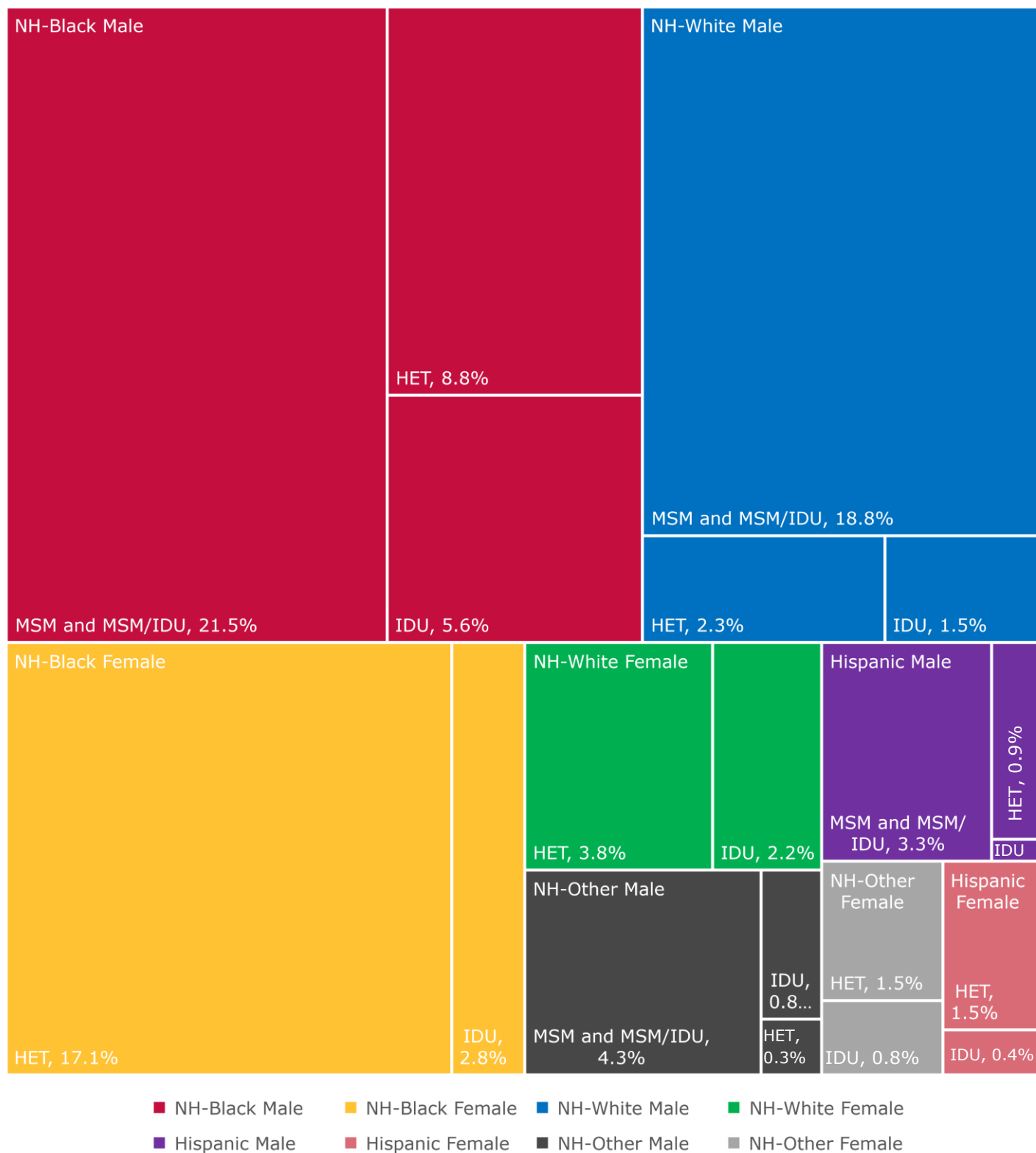


*Note.* Other exposure category and perinatal transmission not shown (<2 percent). Multiple imputation was used to estimate and adjust for missing transmission category.

## Table 16 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019

| Estimated or Reported Exposure Category | Reported HIV Diagnoses Among People Aged 13+ | | | | | | |
|---|---|---|---|---|---|---|---|
| | No. | % of Total | Linked to Care | | Late HIV Diagnoses | First CD4 Test Result | |
| | | | % 1 mo. | % 3 mo. | % | % with Test | Median Count |
| Male-to-male Sexual Contact (MSM) | 21 | 66.6% | 53.1% | 76.5% | *** | 85.9% | 468 |
| Injection Drug Use (IDU) | 1 | 3.1% | *** | *** | *** | *** | *** |
| Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU) | 0 | 0.0% | -- | -- | -- | -- | -- |
| Heterosexual Contact (HET) | 10 | 30.3% | *** | *** | *** | *** | *** |
| Perinatal Transmission | 0 | 0.0% | -- | -- | -- | -- | -- |
| Other Exposure | 0 | 0.0% | -- | -- | -- | -- | -- |
| No Estimated or Reported Exposure | 0 | 0.0% | -- | -- | -- | -- | -- |
| **Total** | **32** | **100.0%** | **65.6%** | **84.4%** | **15.6%** | **90.6%** | **436** |
| **Male Estimated or Reported Exposure Category** | | | | | | | |
| Male-to-male Sexual Contact (MSM) | 21 | 92.6% | *** | *** | *** | *** | *** |
| Injection Drug Use (IDU) | 0 | 0.0% | -- | -- | -- | -- | -- |
| Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU) | 0 | 0.0% | -- | -- | -- | -- | -- |
| Heterosexual Contact (HET) | 2 | 7.4% | *** | *** | *** | *** | *** |
| Perinatal Transmission | 0 | 0.0% | -- | -- | -- | -- | -- |
| Other Exposure | 0 | 0.0% | -- | -- | -- | -- | -- |
| No Estimated or Reported Exposure | 0 | 0.0% | -- | -- | -- | -- | -- |
| **Total** | **23** | **100.0%** | **56.5%** | **78.3%** | **17.4%** | **87.0%** | |
| **Female Estimated or Reported Exposure Category** | | | | | | | |
| Injection Drug Use (IDU) | 1 | 11.1% | *** | *** | *** | *** | *** |
| Heterosexual Contact (HET) | 8 | 88.9% | *** | *** | *** | *** | *** |
| Perinatal Transmission | 0 | 0.0% | -- | -- | -- | -- | -- |
| Other Exposure | 0 | 0.0% | -- | -- | -- | -- | -- |
| No Estimated or Reported Exposure | 0 | 0.0% | -- | -- | -- | -- | -- |
| **Total** | **9** | **100.0%** | **88.9%** | **100.0%** | **11.1%** | **100.0%** | |

*Note*. Data for 2018 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

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

## Table 17 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019

| Estimated or Reported Exposure Category | Total People Aged 13+ Living with Diagnosed HIV | |
|---|---|---|
| | No. | % of Total |
| Male-to-male Sexual Contact (MSM) | 407 | 44.2% |
| Injection Drug Use (IDU) | 131 | 14.2% |
| Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU) | 35 | 3.8% |
| Heterosexual Contact (HET) | 333 | 36.2% |
| Perinatal Transmission | 11 | 1.2% |
| Other Exposure | 2 | 0.2% |
| No Estimated or Reported Exposure | 2 | 0.2% |
| **Total** | 921 | 100.0% |
| **Male Estimated or Reported Exposure Category** | | |
| Male-to-male Sexual Contact (MSM) | 407 | 64.3% |
| Injection Drug Use (IDU) | 74 | 11.6% |
| Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU) | 35 | 5.5% |
| Heterosexual Contact (HET) | 113 | 17.8% |
| Perinatal Transmission | 2 | 0.3% |
| Other Exposure | 2 | 0.3% |
| No Estimated or Reported Exposure | 1 | 0.2% |
| **Total** | 633 | 100.0% |
| **Female Estimated or Reported Exposure Category** | | |
| Injection Drug Use (IDU) | 57 | 19.9% |
| Heterosexual Contact (HET) | 221 | 76.7% |
| Perinatal Transmission | 9 | 3.1% |
| Other Exposure | 0 | 0.0% |
| No Estimated or Reported Exposure | 1 | 0.3% |
| **Total** | 288 | 100.0% |

*Note*. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

## Table 18 – People Aged 13+ Living with Diagnosed HIV by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, and Reported through June 30, 2019

| Estimated or Reported Exposure Category | Total People Aged 13+ Living with Diagnosed HIV | | | | | |
|---|---|---|---|---|---|---|
| | Race/Ethnicity | | | | | |
| | Hispanic | | Non-Hispanic, Black, only | | Non-Hispanic, White, only | |
| | No. | % of Total | No. | % of Total | No. | % of Total |
| Male-to-male Sexual Contact (MSM) | 28 | 49.0% | 182 | 34.7% | 166 | 61.9% |
| Injection Drug Use (IDU) | 5 | 9.3% | 77 | 14.8% | 33 | 12.5% |
| Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU) | 2 | 3.4% | 16 | 3.1% | 8 | 2.8% |
| Heterosexual Contact (HET) | 22 | 38.3% | 239 | 45.5% | 56 | 21.0% |
| Perinatal Transmission | 0 | 0.0% | 9 | 1.7% | 2 | 0.7% |
| Other Exposure | 0 | 0.0% | 0 | 0.0% | 2 | 0.7% |
| No Estimated or Reported Exposure | 0 | 0.0% | 1 | 0.2% | 1 | 0.4% |
| **Total** | 57 | 100.0% | 524 | 100.0% | 268 | 100.0% |
| **Male Estimated or Reported Exposure Category** | | | | | | |
| Male-to-male Sexual Contact (MSM) | 28 | 71.0% | 182 | 54.8% | 166 | 78.6% |
| Injection Drug Use (IDU) | 1 | 3.3% | 51 | 15.4% | 13 | 6.4% |
| Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU) | 2 | 5.0% | 16 | 4.9% | 8 | 3.6% |
| Heterosexual Contact (HET) | 8 | 20.8% | 81 | 24.3% | 21 | 10.0% |
| Perinatal Transmission | 0 | 0.0% | 2 | 0.6% | 0 | 0.0% |
| Other Exposure | 0 | 0.0% | 0 | 0.0% | 2 | 0.9% |
| No Estimated or Reported Exposure | 0 | 0.0% | 0 | 0.0% | 1 | 0.5% |
| **Total** | 39 | 100.0% | 332 | 100.0% | 211 | 100.0% |
| **Female Estimated or Reported Exposure Category** | | | | | | |
| Injection Drug Use (IDU) | 4 | 22.8% | 26 | 13.6% | 20 | 35.1% |
| Heterosexual Contact (HET) | 14 | 77.2% | 158 | 82.2% | 35 | 61.4% |
| Perinatal Transmission | 0 | 0.0% | 7 | 3.6% | 2 | 3.5% |
| Other Exposure | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| No Estimated or Reported Exposure | 0 | 0.0% | 1 | 0.5% | 0 | 0.0% |
| **Total** | 18 | 100.0% | 192 | 100.0% | 57 | 100.0% |

*Note*. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

## Table 19 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019

| Estimated or Reported Exposure Category | Total People Aged 13+ with Living Diagnosed HIV | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | No. | Recent CD4 Test Results | | | | | | |
| | | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ |
| Male-to-male Sexual Contact (MSM) | 407 | 330 | 81.0% | 572 | 10.0% | 14.9% | 16.5% | 58.6% |
| Injection Drug Use (IDU) | 131 | 101 | 77.1% | 593 | 11.1% | 8.6% | 20.1% | 60.2% |
| Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU) | 35 | 29 | 85.0% | 536 | 3.4% | 15.3% | 24.8% | 56.5% |
| Heterosexual Contact (HET) | 333 | 276 | 82.7% | 626 | 10.1% | 14.0% | 12.7% | 63.2% |
| Perinatal Transmission | 11 | 8 | 72.7% | 592 | 12.5% | 0.0% | 25.0% | 62.5% |
| Other Exposure | 2 | *** | *** | *** | *** | *** | *** | *** |
| No Estimated or Reported Exposure | 2 | *** | *** | *** | *** | *** | *** | *** |
| **Total** | 921 | 747 | 81.1% | 588 | 9.9% | 13.8% | 16.1% | 60.2% |

*Note.* Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

## Table 20 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019

| Estimated or Reported Exposure Category | Total People Aged 13+ with Living Diagnosed HIV | | | | |
|---|---|---|---|---|---|
| | No. | Recent Viral Load Test Results | | | |
| | | No. with Test | % with Test | % Suppressed | Median Unsuppressed |
| Male-to-male Sexual Contact (MSM) | 407 | 335 | 82.1% | 89.0% | 9,840 |
| Injection Drug Use (IDU) | 131 | 103 | 78.4% | 87.0% | 4,010 |
| Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU) | 35 | 29 | 84.7% | 96.2% | 97,200 |
| Heterosexual Contact (HET) | 333 | 268 | 80.3% | 90.4% | 41,610 |
| Perinatal Transmission | 11 | 6 | 54.5% | 83.3% | 4,380 |
| Other Exposure | 2 | *** | *** | *** | *** |
| No Estimated or Reported Exposure | 2 | *** | *** | *** | *** |
| **Total** | 921 | 743 | 80.7% | 89.4% | 18,100 |

*Note.* Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

# Section IX – Disease Progression and Mortality

## Figure 12 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2017, Reported through June 30, 2019

Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, (Reported HIV Diagnoses Among People Aged 13+), Number of People Aged 13+ with Diagnosed HIV with an AIDS Diagnosis by December 31, 2018 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis Among People Aged 13+ by December 31, 2018, the Average Years from HIV Diagnosis to AIDS Diagnosis for People with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis Among People Aged 13+ at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2017, Reported through June 30, 2019

**Number with AIDS by 12/31/2018**
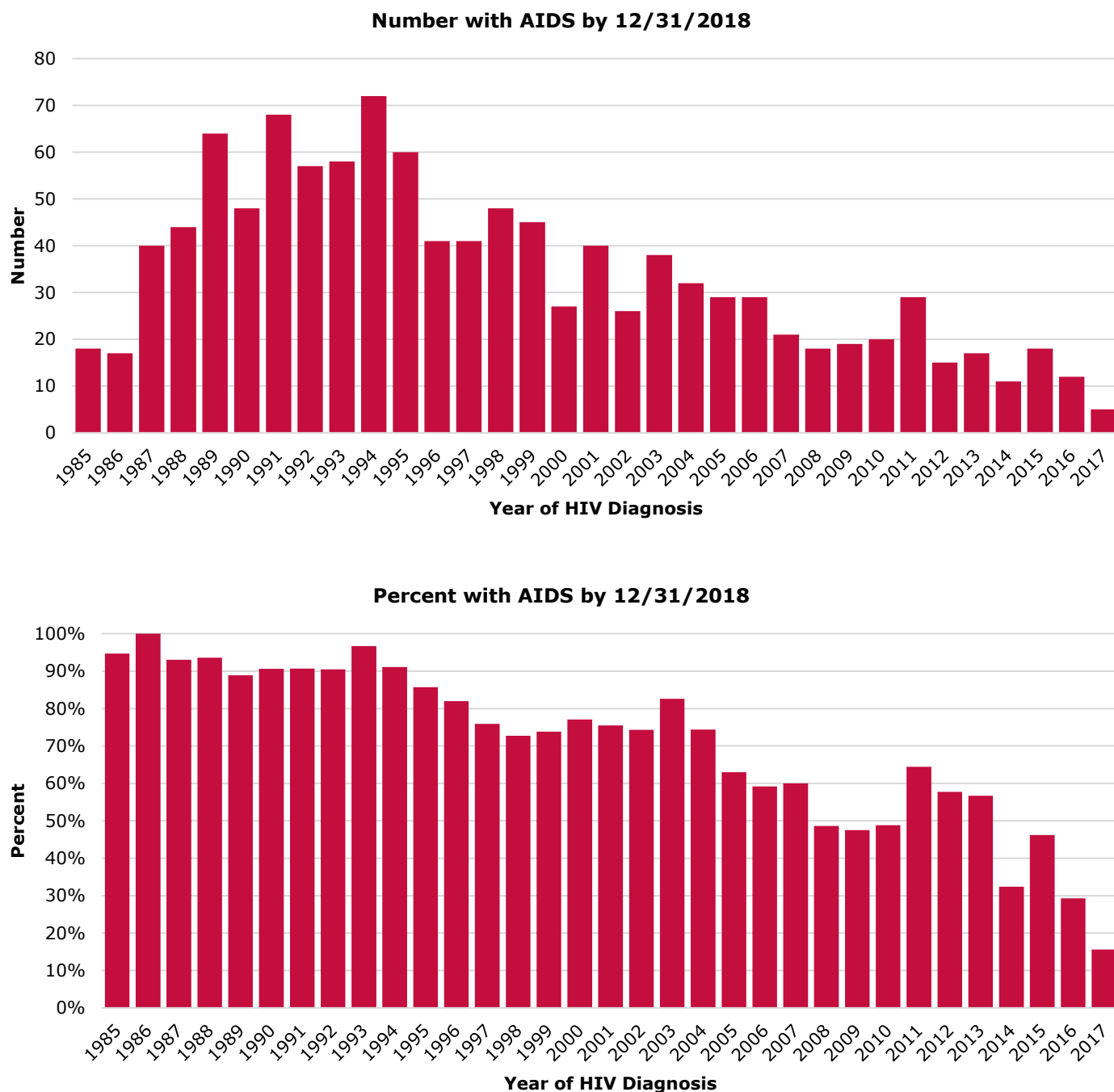


**Percent with AIDS by 12/31/2018**

| Year of HIV Diagnosis | No. | Reported AIDS Diagnoses | | | Percent with AIDS by Years After HIV Diagnosis | | | |
|---|---|---|---|---|---|---|---|---|
| | | No. | % with AIDS | Mean Years from HIV to AIDS | 1 Year | 2 Years | 5 Years | 10 Years |
| <1985 | 9 | 9 | 100.0% | 2.4 | 77.8% | 77.8% | 77.8% | 88.9% |
| 1985 | 19 | 18 | 94.7% | 3.4 | 63.2% | 63.2% | 68.4% | 84.2% |
| 1986 | 17 | 17 | 100.0% | 3.1 | 52.9% | 58.8% | 76.5% | 94.1% |
| 1987 | 43 | 40 | 93.0% | 4.6 | 37.2% | 37.2% | 60.5% | 79.1% |
| 1988 | 47 | 44 | 93.6% | 3.8 | 51.1% | 53.2% | 70.2% | 80.9% |
| 1989 | 72 | 64 | 88.9% | 3.6 | 40.3% | 45.8% | 59.7% | 86.1% |
| 1990 | 53 | 48 | 90.6% | 3.6 | 35.8% | 39.6% | 60.4% | 84.9% |
| 1991 | 75 | 68 | 90.7% | 3.1 | 44.0% | 49.3% | 66.7% | 85.3% |
| 1992 | 63 | 57 | 90.5% | 3.9 | 42.9% | 49.2% | 66.7% | 81.0% |
| 1993 | 60 | 58 | 96.7% | 2.4 | 55.0% | 68.3% | 83.3% | 91.7% |
| 1994 | 79 | 72 | 91.1% | 2.3 | 62.0% | 65.8% | 75.9% | 83.5% |
| 1995 | 70 | 60 | 85.7% | 2.2 | 54.3% | 60.0% | 72.9% | 82.9% |
| 1996 | 50 | 41 | 82.0% | 3.1 | 46.0% | 50.0% | 60.0% | 76.0% |
| 1997 | 54 | 41 | 75.9% | 1.7 | 57.4% | 61.1% | 70.4% | 72.2% |
| 1998 | 66 | 48 | 72.7% | 3.9 | 40.9% | 42.4% | 51.5% | 59.1% |
| 1999 | 61 | 45 | 73.8% | 1.9 | 55.7% | 57.4% | 62.3% | 68.9% |
| 2000 | 35 | 27 | 77.1% | 2.0 | 51.4% | 51.4% | 65.7% | 71.4% |
| 2001 | 53 | 40 | 75.5% | 1.2 | 58.5% | 62.3% | 66.0% | 75.5% |
| 2002 | 35 | 26 | 74.3% | 2.0 | 51.4% | 57.1% | 62.9% | 68.6% |
| 2003 | 46 | 38 | 82.6% | 1.8 | 60.9% | 63.0% | 71.7% | 80.4% |
| 2004 | 43 | 32 | 74.4% | 2.3 | 48.8% | 48.8% | 60.5% | 72.1% |
| 2005 | 46 | 29 | 63.0% | 1.7 | 50.0% | 50.0% | 54.3% | 58.7% |
| 2006 | 49 | 29 | 59.2% | 1.4 | 46.9% | 46.9% | 53.1% | 59.2% |
| 2007 | 35 | 21 | 60.0% | 0.9 | 51.4% | 51.4% | 57.1% | 60.0% |
| 2008 | 37 | 18 | 48.6% | 2.7 | 29.7% | 32.4% | 35.1% | 45.9% |
| 2009 | 40 | 19 | 47.5% | 0.9 | 42.5% | 42.5% | 42.5% | -- |
| 2010 | 41 | 20 | 48.8% | 1.6 | 34.1% | 36.6% | 39.0% | -- |
| 2011 | 45 | 29 | 64.4% | 0.9 | 53.3% | 55.6% | 60.0% | -- |
| 2012 | 26 | 15 | 57.7% | 0.7 | 50.0% | 50.0% | 57.7% | -- |
| 2013 | 30 | 17 | 56.7% | 0.3 | 53.3% | 53.3% | 56.7% | -- |
| 2014 | 34 | 11 | 32.4% | 0.5 | 26.5% | 29.4% | -- | -- |
| 2015 | 39 | 18 | 46.2% | 0.2 | 46.2% | 46.2% | -- | -- |
| 2016 | 41 | 12 | 29.3% | 0.3 | 26.8% | 29.3% | -- | -- |
| 2017 | 32 | 5 | 15.6% | 0.6 | 12.5% | -- | -- | -- |
| Total | 1,545 | 1,136 | 73.5% | 2.4 | 47.1% | 50.2% | 59.6% | 69.1% |

Reported HIV Diagnoses Among People Aged 13+

# Figure 13 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2017, Reported through June 30, 2019

Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Number of Reported AIDS Diagnosis Among People Aged 13+ Reported to Have Died of Any Cause by December 31, 2018 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) Among People Aged 13+ by December 31, 2018, the Average Years from AIDS Diagnosis to Death for People that have Died, and the Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses Among People Aged 13+ 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 2017, Reported through June 30, 2019



Number Deceased by 12/31/2018



Percent Deceased by 12/31/2018
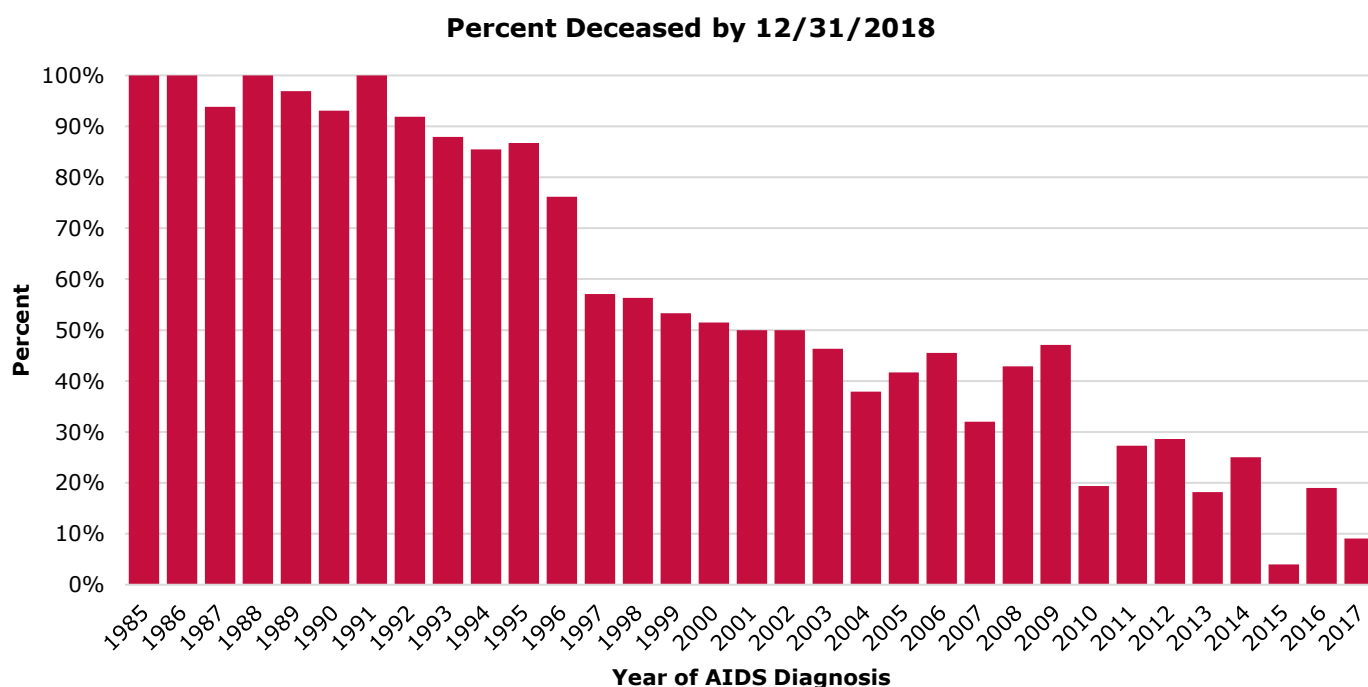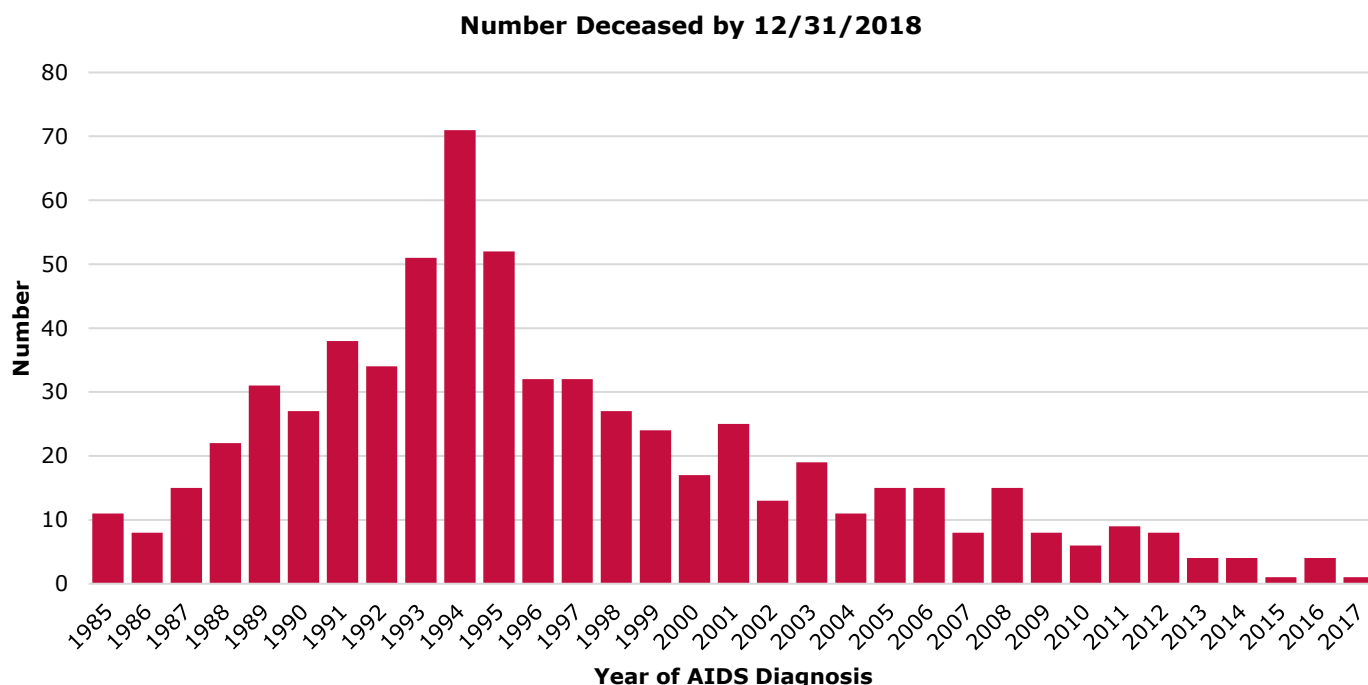
| Year of AIDS Diagnosis | Reported AIDS Diagnoses Among People Aged 13+ | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | No. | Reported AIDS Deaths | | | Percent Alive by Years After AIDS Diagnosis | | | |
| | | No. | % Deceased | Mean Years from AIDS to Death | 1 Year | 2 Years | 5 Years | 10 Years |
| <1985 | 7 | 7 | 100.0% | 0.4 | 14.3% | 0.0% | 0.0% | 0.0% |
| 1985 | 11 | 11 | 100.0% | 0.5 | 27.3% | 0.0% | 0.0% | 0.0% |
| 1986 | 8 | 8 | 100.0% | 0.9 | 37.5% | 25.0% | 0.0% | 0.0% |
| 1987 | 16 | 15 | 93.8% | 2.6 | 62.5% | 43.8% | 12.5% | 12.5% |
| 1988 | 22 | 22 | 100.0% | 1.9 | 63.6% | 31.8% | 9.1% | 0.0% |
| 1989 | 32 | 31 | 96.9% | 2.4 | 59.4% | 46.9% | 15.6% | 6.3% |
| 1990 | 29 | 27 | 93.1% | 2.7 | 75.9% | 51.7% | 24.1% | 6.9% |
| 1991 | 38 | 38 | 100.0% | 2.4 | 71.1% | 39.5% | 15.8% | 2.6% |
| 1992 | 37 | 34 | 91.9% | 3.0 | 62.2% | 40.5% | 18.9% | 16.2% |
| 1993 | 58 | 51 | 87.9% | 3.2 | 79.3% | 55.2% | 29.3% | 17.2% |
| 1994 | 83 | 71 | 85.5% | 4.4 | 74.7% | 62.7% | 39.8% | 25.3% |
| 1995 | 60 | 52 | 86.7% | 5.1 | 71.7% | 61.7% | 46.7% | 26.7% |
| 1996 | 42 | 32 | 76.2% | 5.6 | 78.6% | 73.8% | 54.8% | 35.7% |
| 1997 | 56 | 32 | 57.1% | 6.9 | 89.3% | 82.1% | 71.4% | 57.1% |
| 1998 | 48 | 27 | 56.3% | 5.2 | 85.4% | 81.3% | 64.6% | 52.1% |
| 1999 | 45 | 24 | 53.3% | 6.1 | 95.6% | 88.9% | 73.3% | 55.6% |
| 2000 | 33 | 17 | 51.5% | 7.3 | 84.8% | 78.8% | 72.7% | 69.7% |
| 2001 | 50 | 25 | 50.0% | 4.8 | 80.0% | 78.0% | 70.0% | 62.0% |
| 2002 | 26 | 13 | 50.0% | 5.2 | 80.8% | 76.9% | 69.2% | 65.4% |
| 2003 | 41 | 19 | 46.3% | 2.8 | 78.0% | 70.7% | 65.9% | 53.7% |
| 2004 | 29 | 11 | 37.9% | 3.8 | 89.7% | 82.8% | 75.9% | 65.5% |
| 2005 | 36 | 15 | 41.7% | 3.7 | 83.3% | 83.3% | 72.2% | 63.9% |
| 2006 | 33 | 15 | 45.5% | 3.1 | 78.8% | 75.8% | 66.7% | 54.5% |
| 2007 | 25 | 8 | 32.0% | 3.1 | 88.0% | 88.0% | 76.0% | 68.0% |
| 2008 | 35 | 15 | 42.9% | 3.5 | 82.9% | 80.0% | 71.4% | 57.1% |
| 2009 | 17 | 8 | 47.1% | 1.1 | 64.7% | 58.8% | 58.8% | -- |
| 2010 | 31 | 6 | 19.4% | 2.7 | 93.5% | 90.3% | 87.1% | -- |
| 2011 | 33 | 9 | 27.3% | 3.4 | 90.9% | 90.9% | 78.8% | -- |
| 2012 | 28 | 8 | 28.6% | 1.3 | 82.1% | 78.6% | 71.4% | -- |
| 2013 | 22 | 4 | 18.2% | 0.3 | 81.8% | 81.8% | 81.8% | -- |
| 2014 | 16 | 4 | 25.0% | 0.1 | 75.0% | 75.0% | -- | -- |
| 2015 | 25 | 1 | 4.0% | 2.8 | 100.0% | 100.0% | -- | -- |
| 2016 | 21 | 4 | 19.0% | 0.6 | 85.7% | 81.0% | -- | -- |
| 2017* | 11 | 1 | 9.1% | 0.9 | 90.9% | -- | -- | -- |
| Total | 1,104 | 665 | 60.2% | 3.8 | 78.8% | 69.6% | 55.8% | 45.8% |

*2017 AIDS deaths are preliminary

# Section X – Pediatrics

## Figure 14 – Trends in Reported HIV Diagnoses Among People Aged <13, 1985-2018, Reported through June 30, 2019

Number of Pediatric HIV Diagnoses, Age <13 at HIV 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 Children with Diagnosed HIV, Age <13 at HIV Diagnosis, and Not Reported to have Died as of December 31st of Each Year (Total Living Pediatric Diagnoses) from 1985 through 2018, as Reported by Name through June 30, 2019
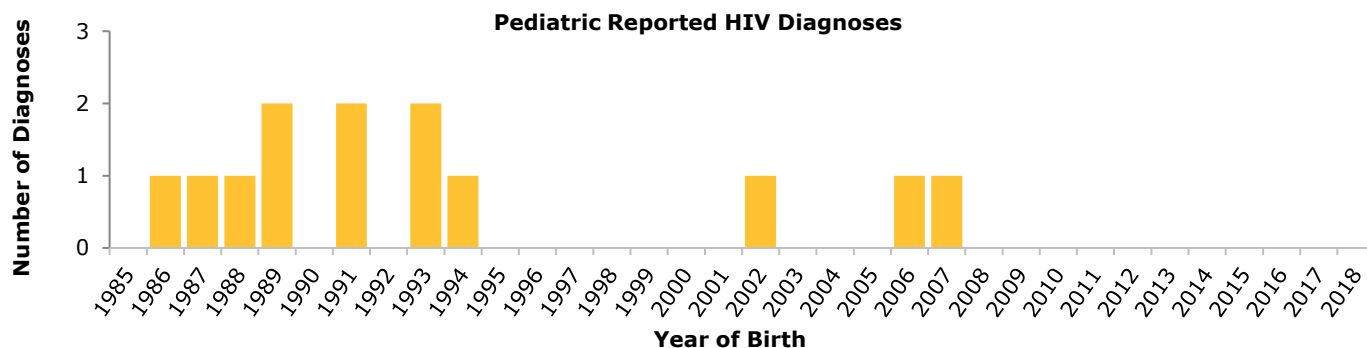


| Year | Pediatric Reported HIV Diagnoses | | | | Total Living Pediatric Diagnoses Alive on December 31st of Each Year |
|------|------------------------------------|---|---|---|---|
| | No. by Year of Birth | No. by Year of HIV Diagnosis | No. by Year of AIDS Diagnosis | No. by Year of Death | |
| <1985 | 6 | 0 | 0 | 0 | -- |
| 1985 | 0 | 1 | 1 | 0 | 1 |
| 1986 | 1 | 1 | 0 | 0 | 2 |
| 1987 | 1 | 0 | 0 | 0 | 2 |
| 1988 | 1 | 1 | 0 | 0 | 3 |
| 1989 | 2 | 0 | 0 | 1 | 2 |
| 1990 | 0 | 1 | 0 | 0 | 3 |
| 1991 | 2 | 5 | 1 | 0 | 8 |
| 1992 | 0 | 3 | 2 | 1 | 10 |
| 1993 | 2 | 1 | 1 | 0 | 11 |
| 1994 | 1 | 1 | 2 | 0 | 12 |
| 1995 | 0 | 0 | 0 | 2 | 10 |
| 1996 | 0 | 1 | 2 | 1 | 8 |
| 1997 | 0 | 0 | 0 | 0 | 8 |
| 1998 | 0 | 0 | 0 | 0 | 8 |
| 1999 | 0 | 0 | 0 | 0 | 8 |
| 2000 | 0 | 0 | 0 | 0 | 8 |
| 2001 | 0 | 0 | 1 | 0 | 8 |
| 2002 | 1 | 0 | 1 | 0 | 8 |
| 2003 | 0 | 0 | 0 | 0 | 8 |
| 2004 | 0 | 1 | 0 | 0 | 9 |
| 2005 | 0 | 0 | 0 | 0 | 9 |
| 2006 | 1 | 0 | 0 | 1 | 8 |
| 2007 | 1 | 1 | 0 | 0 | 9 |
| 2008 | 0 | 0 | 0 | 0 | 9 |
| 2009 | 0 | 1 | 0 | 0 | 10 |
| 2010 | 0 | 1 | 0 | 0 | 12 |
| 2011 | 0 | 0 | 0 | 0 | 12 |
| 2012 | 0 | 0 | 0 | 0 | 12 |
| 2013 | 0 | 0 | 1 | 0 | 11 |
| 2014 | 0 | 0 | 0 | 0 | 11 |
| 2015 | 0 | 0 | 0 | 0 | 11 |
| 2016 | 0 | 0 | 0 | 0 | 12 |
| 2017 | 0 | 0 | 0 | 0 | 12 |
| 2018 | 0 | 0 | 0 | 0 | 12 |
| Total | 19 | 19 | 12 | 6 | -- |

## Table 21 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

| Jurisdiction of Current Residence | Total People Aged <13 Living with Diagnosed HIV | |
|---|---|---|
| | No. | % of Total |
| Caroline | 0 | 0.0% |
| Cecil | 3 | 75.0% |
| Dorchester | 1 | 25.0% |
| Kent | 0 | 0.0% |
| Queen Anne's | 0 | 0.0% |
| Somerset | 0 | 0.0% |
| Talbot | 0 | 0.0% |
| Wicomico | 0 | 0.0% |
| Worcester | 0 | 0.0% |
| **Total** | 4 | 100.0% |

## Table 22 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2019

| Demographic Characteristic | Total People Aged <13 Living with Diagnosed HIV | |
|---|---|---|
| | No. | % of Total |
| **Sex at Birth** | | |
| Male | 0 | 0.0% |
| Female | 4 | 100.0% |
| | | |
| **Race/Ethnicity** | | |
| **Hispanic** | 0 | 0.0% |
| **Non-Hispanic** | 4 | 100.0% |
| American Indian/Alaska Native, only | 0 | 0.0% |
| Asian, only | 0 | 0.0% |
| Black, only | 2 | 50.0% |
| Native Hawaiian/Other Pacific Islander, only | 0 | 0.0% |
| White, only | 2 | 50.0% |
| Multiracial/Other | 0 | 0.0% |
| **Total** | 4 | 100.0% |

# Glossary of Terms

**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 people living with diagnosed HIV on the specified date.

**Another Gender Identity**: All other gender identities or gender expressions.

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

**CD4 With Test:** Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

**Corrections:** Residence in a state or federal prison. Does not include local jails and detention centers.

**Current Residence:** Jurisdiction of residence from the most recent report since January 1, 2009.

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

**First CD4 Test Result Percent with Test:** Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

**Gender Expression:** People's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

**Gender Identity:** Refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

**Jurisdiction of Current Residence:** Jurisdiction of residence from the most recent report since January 1, 2009.

**Jurisdiction of Residence:** Jurisdiction of residence at diagnosis or current residence.

**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 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.

**Late HIV Diagnosis:** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

**Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

**People Aged 13+ Living with Diagnosed HIV:** Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year and not reported to have died as of December 31st of the specified year.

**People Living with Diagnosed HIV:** Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

**Mean Years from HIV Diagnosis:** Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for people living 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 Count:** Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

**Median Unsuppressed:** Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

**Percent Change:** The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

**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:** Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

**Percent Suppressed:** Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

**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 Percent:** Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures by year of birth.

**Perinatal HIV Transmission Rate:** Number of confirmed perinatal HIV transmissions divided by the number of live births multiplied by 100,000 by year of birth.

**Population:** Population estimate for July 1, 2018.

**Population Age 13+:** Population age 13 years or older, estimate for July 1, 2018.

**Rate:** Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

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

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year.

**Recent Viral Load Test Result:** The most recent viral load test result measured in 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 AIDS Diagnoses Among People Aged 13+:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, 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 HIV Diagnoses Among People Aged 13+:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

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

**Retained in HIV Care:** HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

**Suppressed Viral Load:** HIV diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

**Total People Aged 13+ Living with Diagnosed HIV:** Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year not reported to have died as of December 31st of the specified year.

**Total People Aged <13 Living with Diagnosed HIV:** Reported HIV diagnosis, age less than 13 years at HIV diagnosis and not reported to have died as of December 31st of the specified year.

**Total People Living with Diagnosed HIV:** Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

**Transgender Female**: A person whose sex assigned at birth is male but who identify as a woman.

**Transgender Male:** A person whose sex assigned at birth is female but who identify as a man.

**Viral Load With Test:** Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.

**Women of Childbearing Age Living with Diagnosed HIV:** Reported HIV diagnoses among women of childbearing age (13-49 years old).