



# Maryland HIV Update

**Data from January 1, 2022, through December 31, 2022, reported through June 30, 2023**

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 Prevention and Health Promotion Administration  
 Maryland Department of Health  
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**Note.** The title of this report has changed to reflect the time period described by the data instead of the reported through date.

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## Section I – Technical Notes

### HIV/AIDS Reporting

The Maryland HIV/AIDS Reporting Act of 2007 requires that people living with HIV be reported by name to the Maryland Department of Health (MDH). As per 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 and infants born to mothers living with HIV, clinical and infection control practitioners in medical and correctional facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS, and laboratory directors are required to report all HIV diagnostic and HIV-related monitoring test results, including HIV negative test results.

### Report Changes

To be responsive to changing data needs, the following updates have been made to this report:

- The title of the report has been changed to reflect the time period described by the data instead of the reported through date.
- Current Residence estimates are restricted to people for which there is a case report form or laboratory test reported since January 1, 2013 (as opposed to January 1, 2009, which was used in prior profiles). Current residence will now be based on a rolling ten-year time frame from the report year.

### Data Specifications

Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are collected on all people with HIV who were residents of the state of Maryland or received HIV care in Maryland. Data are presented for people who were Maryland residents at the time of their HIV diagnosis and for people who were living with HIV and were current residents of Maryland as of December 31, 2022.

Data presented were reported to the MDH through June 30, 2023. Reported new diagnoses and estimates of people living with diagnosed HIV are as of December 31, 2022.

This report presents data with a six-month reporting delay. This lag allows for time to report case and laboratory data and to complete investigations. Due to Maryland HIV Update – January 1, 2022, through December 31, 2022

reporting delays, estimates by exposure category and mortality are preliminary.

Please read all table titles and footnotes carefully to ensure a complete understanding of the displayed data. A glossary of terms is also available.

### AIDS Diagnoses

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, if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent, or if a person has been diagnosed with an opportunistic infection.

### Mortality

People are assumed to be alive unless reported as deceased. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting of non-AIDS deaths and out-of-state deaths. Most deaths are reported within two years.

### Engagement in HIV Care

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. The presence of these lab tests is used as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

### Viral Suppression

Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a 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, is known as viral suppression. 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.

### Geographic Distribution

Residence at diagnosis is used exclusively to describe new diagnoses. Statistics describing the number of people living with diagnosed HIV use current residence. Current residence numbers are restricted to people for which there is a case report form or laboratory test reported since January 1, 2013. 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 since prior to 2013. 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.

### Residents of Correctional Facilities

New diagnoses of HIV and people living with diagnosed HIV who were reported to be residing in local jails or detention centers are presented, whenever possible, as residing at their home address. New diagnosis of HIV and people living with diagnosed HIV who were reported to be residing in a state or federal prison in Maryland are presented in residing in a separate "Corrections" jurisdiction.

### Sources of Data

Information on HIV and AIDS diagnoses, including residence, vital status, and CD4 and HIV viral load test results are from MDH's Enhanced HIV/AIDS Reporting System (eHARS), as of June 30, 2023.

### 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 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 five people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Tables presenting clinical/laboratory information for reported new diagnoses by ZIP code will present only ZIP codes with at least five people. Exposure/risk data is not suppressed due to statistical adjustments resulting in the presentation of estimated or probable risk.

## Glossary of Terms

**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.

**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, 2013.

**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.

**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.

**Jurisdiction of Current Residence:** Jurisdiction of residence from the most recent report since January 1, 2013.

**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 31, 2022 and not reported to have died as of June 30, 2023.

**People Living with Diagnosed HIV:** Reported HIV diagnoses not reported to have died as of June 30, 2023.

**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 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.

**Population:** Population estimate for July 1, 2022.

**Population Age 13+:** Population age 13 years or older, estimate for July 1, 2022.

**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.

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

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

## **Maryland Department of Health Non-Discrimination Statement**

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Maryland HIV Update – January 1, 2022, through December 31, 2022

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

Table 1 – HIV Diagnoses and Reported AIDS Diagnoses, Among People Aged 13+ During January 1, 2022 through December 31, 2022, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2023

Jurisdiction of Residence at Diagnosis	Population Age 13+	HIV Diagnoses Among People Aged 13+			AIDS Diagnoses Among People Aged 13+		
		No.	% of Total	Rate	No.	% of Total	Rate
Allegany	58,834	2	0.3%	3.4	4	1.0%	6.8
Anne Arundel	499,060	26	3.5%	5.2	22	5.6%	4.4
Baltimore City	485,365	158	21.0%	32.6	93	23.5%	19.2
Baltimore	717,811	83	11.1%	11.6	33	8.4%	4.6
Calvert	79,743	1	0.1%	1.3	2	0.5%	2.5
Caroline	27,937	1	0.1%	3.6	2	0.5%	7.2
Carroll	148,583	3	0.4%	2.0	3	0.8%	2.0
Cecil	88,919	0	0.0%	0.0	3	0.8%	3.4
Charles	142,343	25	3.3%	17.6	8	2.0%	5.6
Dorchester	27,848	2	0.3%	7.2	2	0.5%	7.2
Frederick	240,559	11	1.5%	4.6	4	1.0%	1.7
Garrett	25,054	0	0.0%	0.0	0	0.0%	0.0
Harford	223,232	12	1.6%	5.4	8	2.0%	3.6
Howard	280,829	20	2.7%	7.1	13	3.3%	4.6
Kent	17,279	1	0.1%	5.8	1	0.3%	5.8
Montgomery	886,227	107	14.2%	12.1	51	12.9%	5.8
Prince George's	798,706	258	34.4%	32.3	122	30.9%	15.3
Queen Anne's	44,380	4	0.5%	9.0	1	0.3%	2.3
Saint Mary's	95,727	4	0.5%	4.2	4	1.0%	4.2
Somerset	21,527	3	0.4%	13.9	3	0.8%	13.9
Talbot	33,113	0	0.0%	0.0	0	0.0%	0.0
Washington	132,158	7	0.9%	5.3	6	1.5%	4.5
Wicomico	88,216	19	2.5%	21.5	9	2.3%	10.2
Worcester	47,616	4	0.5%	8.4	1	0.3%	2.1
Corrections	--	0	0.0%	--	0	0.0%	--
<b>Total</b>	5,211,066	751	100.0%	14.8	395	100.0%	7.7

Table 2 – HIV Diagnoses, Among People Aged 13+ During January 1, 2022 through December 31, 2022, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2023

Jurisdiction of Residence at HIV Diagnosis	HIV Diagnoses Among People Aged 13+					
	No.	Linked to Care		% Late HIV Diagnoses	First CD4 Test Result	
		% 1 mo.	% 3 mo.		% with Test	Median Count
Allegany	2	***	***	***	***	***
Anne Arundel	26	80.8%	100.0%	30.8%	100.0%	379
Baltimore City	158	86.7%	94.9%	19.0%	96.8%	442
Baltimore	83	88.0%	94.0%	19.3%	97.6%	333
Calvert	1	***	***	***	***	***
Caroline	1	***	***	***	***	***
Carroll	3	***	***	***	***	***
Cecil	0	--	--	--	--	--
Charles	25	92.0%	96.0%	28.0%	92.0%	412
Dorchester	2	***	***	***	***	***
Frederick	11	81.8%	90.9%	***	100.0%	328
Garrett	0	--	--	--	--	--
Harford	12	75.0%	100.0%	***	100.0%	334
Howard	20	80.0%	100.0%	35.0%	100.0%	433
Kent	1	***	***	***	***	***
Montgomery	107	86.9%	95.3%	38.3%	97.2%	335
Prince George's	258	87.6%	94.6%	24.8%	95.7%	410
Queen Anne's	4	***	***	***	***	***
Saint Mary's	4	***	***	***	***	***
Somerset	3	***	***	***	***	***
Talbot	0	--	--	--	--	--
Washington	7	100.0%	100.0%	***	85.7%	264
Wicomico	19	78.9%	84.2%	36.8%	94.7%	285
Worcester	4	***	***	***	***	***
Corrections	0	--	--	--	--	--
<b>Total</b>	751	86.2%	94.7%	26.5%	96.5%	380

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



**Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2022, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2023**

Jurisdiction of Residence	Population Age 13+	People Aged 13+ Living with Diagnosed HIV								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Allegany	58,834	97	0.3%	164.9	607	113	0.4%	192.1	521	16.5%
Anne Arundel	499,060	1,349	4.0%	270.3	370	1,420	4.5%	284.5	351	5.3%
Baltimore City	485,365	11,741	35.2%	2,419.0	41	10,003	31.7%	2,060.9	49	-14.8%
Baltimore	717,811	3,358	10.1%	467.8	214	3,764	11.9%	524.4	191	12.1%
Calvert	79,743	118	0.4%	148.0	676	142	0.4%	178.1	562	20.3%
Caroline	27,937	69	0.2%	247.0	405	60	0.2%	214.8	466	-13.0%
Carroll	148,583	160	0.5%	107.7	929	160	0.5%	107.7	929	0.0%
Cecil	88,919	128	0.4%	144.0	695	156	0.5%	175.4	570	21.9%
Charles	142,343	549	1.6%	385.7	259	700	2.2%	491.8	203	27.5%
Dorchester	27,848	126	0.4%	452.5	221	157	0.5%	563.8	177	24.6%
Frederick	240,559	398	1.2%	165.4	604	509	1.6%	211.6	473	27.9%
Garrett	25,054	8	0.0%	31.9	3,132	15	0.0%	59.9	1,670	87.5%
Harford	223,232	467	1.4%	209.2	478	548	1.7%	245.5	407	17.3%
Howard	280,829	650	1.9%	231.5	432	760	2.4%	270.6	370	16.9%
Kent	17,279	44	0.1%	254.6	393	53	0.2%	306.7	326	20.5%
Montgomery	886,227	4,268	12.8%	481.6	208	3,704	11.7%	418.0	239	-13.2%
Prince George's	798,706	8,210	24.6%	1,027.9	97	8,004	25.3%	1,002.1	100	-2.5%
Queen Anne's	44,380	60	0.2%	135.2	740	61	0.2%	137.4	728	1.7%
Saint Mary's	95,727	149	0.4%	155.7	642	158	0.5%	164.0	610	5.4%
Somerset	21,527	78	0.2%	362.3	276	95	0.3%	441.3	227	21.8%
Talbot	33,113	63	0.2%	190.3	526	80	0.3%	241.6	414	27.0%
Washington	132,158	327	1.0%	247.4	404	380	1.2%	287.5	348	16.2%
Wicomico	88,216	270	0.8%	306.1	327	286	0.9%	324.2	308	5.9%
Worcester	47,616	77	0.2%	161.7	618	64	0.2%	134.4	744	-16.9%
Corrections	--	579	1.7%	--	--	212	0.7%	--	--	--
<b>Total</b>	5,211,066	33,343	100.0%	639.8	156	31,604	100.0%	606.5	165	-5.2%

**Table 4 – CD4 Test Results During January 1, 2022 through December 31, 2022 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2022, by Jurisdiction of Current Residence, Reported through June 30, 2023**

Jurisdiction of Current Residence	People Aged 13+ Living with Diagnosed HIV								
	No.	Recent CD4 Test Result				<200	200-349	350-499	500+
		No. with Test	% with Test	Median Count					
Allegany	113	98	86.7%	712	5.1%	6.1%	11.2%	77.6%	
Anne Arundel	1,420	1,067	75.1%	669	5.9%	8.8%	15.7%	69.5%	
Baltimore City	10,003	7,577	75.7%	633	8.4%	10.8%	14.9%	65.8%	
Baltimore	3,764	2,795	74.3%	667	5.3%	9.8%	15.7%	69.1%	
Calvert	142	119	83.8%	674	6.7%	12.6%	9.2%	71.4%	
Caroline	60	43	71.7%	758	9.3%	7.0%	4.7%	79.1%	
Carroll	160	124	77.5%	674	7.3%	7.3%	15.3%	70.2%	
Cecil	156	111	71.2%	604	7.2%	11.7%	16.2%	64.9%	
Charles	700	543	77.6%	680	6.8%	9.2%	14.4%	69.6%	
Dorchester	157	118	75.2%	647	9.3%	12.7%	9.3%	68.6%	
Frederick	509	366	71.9%	673	5.2%	7.4%	13.9%	73.5%	
Garrett	15	13	86.7%	653	0.0%	7.7%	15.4%	76.9%	
Harford	548	375	68.4%	678	6.4%	11.5%	12.8%	69.3%	
Howard	760	586	77.1%	658	5.6%	10.1%	13.5%	70.8%	
Kent	53	33	62.3%	702	6.1%	0.0%	12.1%	81.8%	
Montgomery	3,704	2,639	71.2%	630	5.8%	11.0%	16.4%	66.8%	
Prince George's	8,004	6,133	76.6%	644	6.4%	10.1%	15.3%	68.2%	
Queen Anne's	61	43	70.5%	682	4.7%	18.6%	7.0%	69.8%	
Saint Mary's	158	133	84.7%	660	6.0%	10.5%	17.3%	66.2%	
Somerset	95	72	75.8%	582	5.6%	11.1%	16.7%	66.7%	
Talbot	80	68	85.0%	529	11.8%	22.1%	14.7%	51.5%	
Washington	380	282	74.2%	717	5.7%	8.5%	15.6%	70.2%	
Wicomico	286	220	76.9%	558	10.0%	15.9%	16.4%	57.7%	
Worcester	64	50	78.1%	608	6.0%	8.0%	18.0%	68.0%	
Corrections	212	180	84.9%	708	3.9%	10.0%	10.0%	76.1%	
<b>Total</b>	<b>31,604</b>	<b>23,789</b>	<b>75.3%</b>	<b>644</b>	<b>6.8%</b>	<b>10.4%</b>	<b>15.1%</b>	<b>67.7%</b>	

**Table 5 – Viral Load Test Results During January 1, 2022 through December 31, 2022 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2022, by Jurisdiction of Current Residence, Reported through June 30, 2023**

Jurisdiction of Current Residence	People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Allegany	113	91	80.5%	94.5%	28,200
Anne Arundel	1,420	954	67.2%	90.3%	9,430
Baltimore City	10,003	7,057	70.5%	85.7%	5,955
Baltimore	3,764	2,634	70.0%	88.6%	7,370
Calvert	142	117	82.4%	89.7%	1,065
Caroline	60	39	65.0%	92.3%	581,000
Carroll	160	112	70.0%	91.1%	7,850
Cecil	156	104	66.7%	84.6%	20,540
Charles	700	483	69.0%	90.7%	8,090
Dorchester	157	108	68.8%	90.7%	14,450
Frederick	509	343	67.4%	89.5%	649
Garrett	15	14	93.3%	100.0%	--
Harford	548	344	62.8%	87.2%	2,635
Howard	760	514	67.6%	88.5%	3,150
Kent	53	31	58.5%	93.5%	84,050
Montgomery	3,704	2,284	61.7%	90.5%	5,785
Prince George's	8,004	5,382	67.2%	87.9%	7,055
Queen Anne's	61	42	68.9%	92.9%	47,700
Saint Mary's	158	128	81.5%	84.4%	3,545
Somerset	95	74	77.9%	89.2%	28,800
Talbot	80	57	71.3%	91.2%	7,670
Washington	380	279	73.4%	91.0%	1,240
Wicomico	286	219	76.6%	83.6%	1,515
Worcester	64	49	76.6%	89.8%	74,490
Corrections	212	160	75.5%	90.0%	5,030
<b>Total</b>	<b>31,604</b>	<b>21,620</b>	<b>68.4%</b>	<b>87.8%</b>	<b>6,255</b>