



Maryland HIV Update

Data from April 1, 2022, through March 31, 2023, reported through September 30, 2023

Center for HIV Surveillance, Epidemiology and Evaluation
 Infectious Disease Prevention and Health Services Bureau
 Prevention and Health Promotion Administration
 Maryland Department of Health
<https://phpa.health.maryland.gov/OIDEOR/CHSE/pages/Home.aspx>
 800-358-9001

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). Moving forward, current residents will describe persons reported to be residents of Maryland on the most recent report received in the ten years prior to the data reported through date.

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 March 31, 2023.

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

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 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.

In the quarterly reports, not all data has been geocoded and therefore is preliminary. Geocoding is the process of assigning geographic identifiers to map features and data records. Addresses are standard data elements required by law and submitted as part of reporting requirements; however, the information may be incomplete which then requires a geocoding process to improve the quality of data.

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 September 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.

Maryland Department of Health Non-Discrimination Statement

The MDH complies with applicable Federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

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

Table 1 – HIV Diagnoses and Reported AIDS Diagnoses, Among People Aged 13+ During April 1, 2022 through March 31, 2023, by Jurisdiction of Residence at Diagnosis, Reported through September 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	4	0.5%	6.8	4	1.0%	6.8
Anne Arundel	499,060	33	4.3%	6.6	18	4.7%	3.6
Baltimore City	485,365	162	21.2%	33.4	92	24.0%	19.0
Baltimore	717,811	79	10.3%	11.0	26	6.8%	3.6
Calvert	79,743	4	0.5%	5.0	1	0.3%	1.3
Caroline	27,937	1	0.1%	3.6	2	0.5%	7.2
Carroll	148,583	2	0.3%	1.3	3	0.8%	2.0
Cecil	88,919	1	0.1%	1.1	2	0.5%	2.2
Charles	142,343	25	3.3%	17.6	9	2.3%	6.3
Dorchester	27,848	5	0.7%	18.0	2	0.5%	7.2
Frederick	240,559	10	1.3%	4.2	2	0.5%	0.8
Garrett	25,054	0	0.0%	0.0	0	0.0%	0.0
Harford	223,232	9	1.2%	4.0	7	1.8%	3.1
Howard	280,829	18	2.4%	6.4	14	3.6%	5.0
Kent	17,279	1	0.1%	5.8	0	0.0%	0.0
Montgomery	886,227	105	13.7%	11.8	53	13.8%	6.0
Prince George's	798,706	266	34.8%	33.3	122	31.8%	15.3
Queen Anne's	44,380	3	0.4%	6.8	2	0.5%	4.5
Saint Mary's	95,727	3	0.4%	3.1	4	1.0%	4.2
Somerset	21,527	5	0.7%	23.2	3	0.8%	13.9
Talbot	33,113	0	0.0%	0.0	0	0.0%	0.0
Washington	132,158	6	0.8%	4.5	4	1.0%	3.0
Wicomico	88,216	19	2.5%	21.5	12	3.1%	13.6
Worcester	47,616	3	0.4%	6.3	1	0.3%	2.1
Corrections	--	0	0.0%	--	0	0.0%	--
Total	5,211,066	764	100.0%	14.8	384	100.0%	7.5

Table 2 – HIV Diagnoses, Among People Aged 13+ During April 1, 2022 through March 31, 2023, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through September 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	4	***	***	***	***	***
Anne Arundel	33	80.8%	100.0%	30.8%	100.0%	379
Baltimore City	162	85.2%	93.2%	19.1%	96.3%	437
Baltimore	79	86.9%	92.9%	19.0%	97.6%	335
Calvert	4	***	***	***	***	***
Caroline	1	***	***	***	***	***
Carroll	2	***	***	***	***	***
Cecil	1	***	***	***	***	***
Charles	25	92.3%	96.2%	26.9%	88.5%	412
Dorchester	5	***	***	***	***	***
Frederick	10	81.8%	90.9%	***	100.0%	328
Garrett	0	--	--	--	--	--
Harford	9	75.0%	100.0%	***	100.0%	334
Howard	18	80.0%	100.0%	35.0%	100.0%	433
Kent	1	***	***	***	***	***
Montgomery	105	86.9%	95.3%	38.3%	97.2%	335
Prince George's	266	87.2%	94.2%	25.2%	95.7%	410
Queen Anne's	3	***	***	***	***	***
Saint Mary's	3	***	***	***	***	***
Somerset	5	***	***	***	***	***
Talbot	0	--	--	--	--	--
Washington	6	100.0%	100.0%	***	85.7%	264
Wicomico	19	78.9%	84.2%	36.8%	94.7%	285
Worcester	3	***	***	***	***	***
Corrections	0	--	--	--	--	--
Total	764	85.6%	94.1%	26.6%	96.2%	377

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

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on March 31, 2023, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through September 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	98	0.3%	166.6	600	112	0.4%	190.4	525	14.3%
Anne Arundel	499,060	1,358	4.1%	272.1	367	1,446	4.5%	289.7	345	6.5%
Baltimore City	485,365	11,722	35.1%	2,415.1	41	10,014	31.5%	2,063.2	48	-14.6%
Baltimore	717,811	3,368	10.1%	469.2	213	3,822	12.0%	532.5	188	13.5%
Calvert	79,743	121	0.4%	151.7	659	139	0.4%	174.3	574	14.9%
Caroline	27,937	69	0.2%	247.0	405	64	0.2%	229.1	437	-7.2%
Carroll	148,583	161	0.5%	108.4	923	158	0.5%	106.3	940	-1.9%
Cecil	88,919	129	0.4%	145.1	689	156	0.5%	175.4	570	20.9%
Charles	142,343	552	1.7%	387.8	258	709	2.2%	498.1	201	28.4%
Dorchester	27,848	127	0.4%	456.0	219	163	0.5%	585.3	171	28.3%
Frederick	240,559	400	1.2%	166.3	601	512	1.6%	212.8	470	28.0%
Garrett	25,054	8	0.0%	31.9	3,132	17	0.1%	67.9	1,474	112.5%
Harford	223,232	466	1.4%	208.8	479	553	1.7%	247.7	404	18.7%
Howard	280,829	652	2.0%	232.2	431	763	2.4%	271.7	368	17.0%
Kent	17,279	44	0.1%	254.6	393	51	0.2%	295.2	339	15.9%
Montgomery	886,227	4,282	12.8%	483.2	207	3,749	11.8%	423.0	236	-12.4%
Prince George's	798,706	8,249	24.7%	1,032.8	97	8,088	25.4%	1,012.6	99	-2.0%
Queen Anne's	44,380	60	0.2%	135.2	740	63	0.2%	142.0	704	5.0%
Saint Mary's	95,727	149	0.4%	155.7	642	165	0.5%	172.4	580	10.7%
Somerset	21,527	80	0.2%	371.6	269	107	0.3%	497.1	201	33.8%
Talbot	33,113	63	0.2%	190.3	526	77	0.2%	232.5	430	22.2%
Washington	132,158	327	1.0%	247.4	404	384	1.2%	290.6	344	17.4%
Wicomico	88,216	273	0.8%	309.5	323	288	0.9%	326.5	306	5.5%
Worcester	47,616	77	0.2%	161.7	618	69	0.2%	144.9	690	-10.4%
Corrections	--	576	1.7%	--	--	148	0.5%	--	--	--
Total	5,211,066	33,411	100.0%	641.2	156	31,817	100.0%	610.6	164	-4.8%

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

Jurisdiction of Current Residence	People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						500+
		No. with Test	% with Test	Median Count	<200	200-349	350-499	
Allegany	112	98	87.5%	706	4.1%	5.1%	13.3%	77.6%
Anne Arundel	1,446	1,077	74.5%	685	5.6%	8.5%	14.5%	71.4%
Baltimore City	10,014	7,459	74.5%	642	8.2%	10.7%	14.9%	66.2%
Baltimore	3,822	2,809	73.5%	664	5.5%	9.4%	15.1%	70.0%
Calvert	139	112	80.6%	706	8.0%	8.9%	13.4%	69.6%
Caroline	64	50	78.1%	685	10.0%	12.0%	4.0%	74.0%
Carroll	158	120	75.9%	751	6.7%	7.5%	14.2%	71.7%
Cecil	156	104	66.7%	572	12.5%	8.7%	17.3%	61.5%
Charles	709	545	76.9%	669	5.5%	10.8%	13.4%	70.3%
Dorchester	163	127	77.9%	678	7.9%	14.2%	15.7%	62.2%
Frederick	512	372	72.7%	671	4.6%	6.7%	13.4%	75.3%
Garrett	17	12	70.6%	737	8.3%	0.0%	16.7%	75.0%
Harford	553	371	67.1%	711	7.0%	10.0%	12.9%	70.1%
Howard	763	592	77.6%	657	4.9%	9.6%	12.8%	72.6%
Kent	51	34	66.7%	718	8.8%	5.9%	8.8%	76.5%
Montgomery	3,749	2,651	70.7%	632	5.7%	10.6%	16.5%	67.2%
Prince George's	8,088	6,174	76.3%	645	6.0%	10.3%	15.0%	68.7%
Queen Anne's	63	49	77.8%	679	10.2%	14.3%	4.1%	71.4%
Saint Mary's	165	134	81.2%	683	4.5%	9.7%	17.9%	67.9%
Somerset	107	86	80.4%	642	5.8%	9.3%	18.6%	66.3%
Talbot	77	63	81.8%	582	11.1%	12.7%	17.5%	58.7%
Washington	384	283	73.7%	715	2.8%	9.5%	15.2%	72.4%
Wicomico	288	217	75.3%	605	9.7%	12.9%	15.2%	62.2%
Worcester	69	56	81.2%	678	5.4%	7.1%	16.1%	71.4%
Corrections	148	116	78.4%	721	3.4%	8.6%	12.1%	75.9%
Total	31,817	23,711	74.5%	650	6.6%	10.2%	14.9%	68.3%

Table 5 – Viral Load Test Results During April 1, 2022 through March 31, 2023 for People Aged 13+ Living with Diagnosed HIV, Alive on March 31, 2023, by Jurisdiction of Current Residence, Reported through September 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	112	93	83.0%	93.5%	67,126
Anne Arundel	1,446	946	65.4%	90.0%	4,720
Baltimore City	10,014	6,825	68.2%	85.9%	7,320
Baltimore	3,822	2,553	66.8%	88.3%	10,100
Calvert	139	112	80.6%	90.2%	490
Caroline	64	45	70.3%	97.8%	581,000
Carroll	158	107	67.7%	91.6%	579
Cecil	156	97	62.2%	81.4%	41,835
Charles	709	479	67.6%	90.8%	5,430
Dorchester	163	110	67.5%	89.1%	7,190
Frederick	512	347	67.8%	89.3%	580
Garrett	17	13	76.5%	92.3%	14,800
Harford	553	330	59.7%	87.6%	3,769
Howard	763	498	65.3%	90.4%	4,645
Kent	51	30	58.8%	83.3%	25,100
Montgomery	3,749	2,305	61.5%	90.7%	7,550
Prince George's	8,088	5,462	67.5%	88.1%	8,620
Queen Anne's	63	44	69.8%	90.9%	57,600
Saint Mary's	165	126	76.4%	86.5%	7,530
Somerset	107	84	78.5%	91.7%	37,700
Talbot	77	53	68.8%	96.2%	4,465
Washington	384	277	72.1%	93.1%	545
Wicomico	288	213	74.0%	88.7%	11,050
Worcester	69	54	78.3%	87.0%	8,480
Corrections	148	108	73.0%	93.5%	879
Total	31,817	21,311	67.0%	88.1%	7,290

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 March 31, 2023 and not reported to have died as of September 30, 2023.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of September 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.
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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.