



Maryland HIV Update

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

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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.

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 June 30, 2023.

Data presented were reported to the MDH through December 31, 2023. Reported new diagnoses and estimates of people living with diagnosed HIV are as of June 30, 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 December 31, 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 July 1, 2022 through June 30, 2023, by Jurisdiction of Residence at Diagnosis, Reported through December 31, 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	38	5.1%	7.6	25	6.1%	5.0
Baltimore City	485,365	165	22.1%	34.0	98	23.7%	20.2
Baltimore	717,811	68	9.1%	9.5	29	7.0%	4.0
Calvert	79,743	6	0.8%	7.5	2	0.5%	2.5
Caroline	27,937	3	0.4%	10.7	3	0.7%	10.7
Carroll	148,583	2	0.3%	1.3	4	1.0%	2.7
Cecil	88,919	3	0.4%	3.4	2	0.5%	2.2
Charles	142,343	21	2.8%	14.8	11	2.7%	7.7
Dorchester	27,848	6	0.8%	21.5	3	0.7%	10.8
Frederick	240,559	9	1.2%	3.7	6	1.5%	2.5
Garrett	25,054	0	0.0%	0.0	0	0.0%	0.0
Harford	223,232	8	1.1%	3.6	5	1.2%	2.2
Howard	280,829	15	2.0%	5.3	15	3.6%	5.3
Kent	17,279	1	0.1%	5.8	0	0.0%	0.0
Montgomery	886,227	112	15.0%	12.6	58	14.0%	6.5
Prince George's	798,706	250	33.4%	31.3	125	30.3%	15.7
Queen Anne's	44,380	2	0.3%	4.5	2	0.5%	4.5
Saint Mary's	95,727	2	0.3%	2.1	3	0.7%	3.1
Somerset	21,527	5	0.7%	23.2	3	0.7%	13.9
Talbot	33,113	0	0.0%	0.0	0	0.0%	0.0
Washington	132,158	10	1.3%	7.6	5	1.2%	3.8
Wicomico	88,216	14	1.9%	15.9	8	1.9%	9.1
Worcester	47,616	4	0.5%	8.4	1	0.2%	2.1
Corrections	--	0	0.0%	--	0	0.0%	--
Total	5,211,066	748	100.0%	14.5	413	100.0%	8.0

Table 2 – HIV Diagnoses, Among People Aged 13+ During July 1, 2022 through June 30, 2023, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through December 31, 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	38	80.8%	100.0%	34.6%	100.0%	379
Baltimore City	165	84.6%	92.6%	19.1%	96.3%	437
Baltimore	68	86.6%	92.7%	18.3%	97.6%	337
Calvert	6	0.0%	***	***	***	***
Caroline	3	***	***	***	***	***
Carroll	2	***	***	***	***	***
Cecil	3	***	***	***	***	***
Charles	21	92.3%	96.2%	26.9%	88.5%	412
Dorchester	6	***	***	***	***	***
Frederick	9	81.8%	90.9%	***	100.0%	328
Garrett	0	--	--	--	--	--
Harford	8	75.0%	100.0%	***	100.0%	334
Howard	15	80.0%	100.0%	35.0%	100.0%	433
Kent	1	***	***	***	***	***
Montgomery	112	86.9%	95.3%	38.3%	97.2%	335
Prince George's	250	86.5%	93.4%	25.5%	95.4%	410
Queen Anne's	2	***	***	***	***	***
Saint Mary's	2	***	***	***	***	***
Somerset	5	***	***	***	***	***
Talbot	0	--	--	--	--	--
Washington	10	100.0%	100.0%	***	85.7%	264
Wicomico	14	78.9%	84.2%	36.8%	94.7%	285
Worcester	4	***	***	***	***	***
Corrections	0	--	--	--	--	--
Total	748	85.2%	93.7%	26.7%	96.0%	379

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

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on June 30, 2023, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through December 31, 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	105	0.3%	178.5	560	7.1%
Anne Arundel	499,060	1,349	4.1%	270.3	370	1,438	4.5%	288.1	347	6.6%
Baltimore City	485,365	11,564	34.8%	2,382.5	42	9,861	31.1%	2,031.7	49	-14.7%
Baltimore	717,811	3,340	10.1%	465.3	215	3,801	12.0%	529.5	189	13.8%
Calvert	79,743	121	0.4%	151.7	659	146	0.5%	183.1	546	20.7%
Caroline	27,937	68	0.2%	243.4	411	61	0.2%	218.3	458	-10.3%
Carroll	148,583	161	0.5%	108.4	923	156	0.5%	105.0	952	-3.1%
Cecil	88,919	131	0.4%	147.3	679	158	0.5%	177.7	563	20.6%
Charles	142,343	554	1.7%	389.2	257	713	2.3%	500.9	200	28.7%
Dorchester	27,848	129	0.4%	463.2	216	164	0.5%	588.9	170	27.1%
Frederick	240,559	399	1.2%	165.9	603	514	1.6%	213.7	468	28.8%
Garrett	25,054	8	0.0%	31.9	3,132	19	0.1%	75.8	1,319	137.5%
Harford	223,232	463	1.4%	207.4	482	552	1.7%	247.3	404	19.2%
Howard	280,829	649	2.0%	231.1	433	753	2.4%	268.1	373	16.0%
Kent	17,279	43	0.1%	248.9	402	49	0.2%	283.6	353	14.0%
Montgomery	886,227	4,282	12.9%	483.2	207	3,766	11.9%	424.9	235	-12.1%
Prince George's	798,706	8,236	24.8%	1,031.2	97	8,093	25.5%	1,013.3	99	-1.7%
Queen Anne's	44,380	58	0.2%	130.7	765	59	0.2%	132.9	752	1.7%
Saint Mary's	95,727	149	0.4%	155.7	642	163	0.5%	170.3	587	9.4%
Somerset	21,527	82	0.2%	380.9	263	97	0.3%	450.6	222	18.3%
Talbot	33,113	61	0.2%	184.2	543	76	0.2%	229.5	436	24.6%
Washington	132,158	330	1.0%	249.7	400	394	1.2%	298.1	335	19.4%
Wicomico	88,216	277	0.8%	314.0	318	287	0.9%	325.3	307	3.6%
Worcester	47,616	77	0.2%	161.7	618	72	0.2%	151.2	661	-6.5%
Corrections	--	561	1.7%	--	--	184	0.6%	--	--	--
Total	5,211,066	33,190	100.0%	636.9	157	31,681	100.0%	608.0	164	-4.5%

Table 4 – CD4 Test Results During July 1, 2022 through June 30, 2023 for People Aged 13+ Living with Diagnosed HIV, Alive on June 30, 2023, by Jurisdiction of Current Residence, Reported through December 31, 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	105	94	89.5%	687	4.3%	4.3%	18.1%	73.4%	
Anne Arundel	1,438	1,075	74.8%	687	6.5%	8.3%	14.3%	70.9%	
Baltimore City	9,861	7,404	75.1%	643	8.0%	10.9%	14.8%	66.3%	
Baltimore	3,801	2,777	73.1%	665	5.8%	9.6%	14.3%	70.3%	
Calvert	146	120	82.2%	715	5.8%	10.8%	11.7%	71.7%	
Caroline	61	52	85.2%	640	9.6%	5.8%	17.3%	67.3%	
Carroll	156	114	73.1%	690	6.1%	10.5%	12.3%	71.1%	
Cecil	158	102	64.6%	568	5.9%	11.8%	22.5%	59.8%	
Charles	713	550	77.1%	678	6.5%	10.4%	12.9%	70.2%	
Dorchester	164	140	85.4%	662	7.9%	13.6%	16.4%	62.1%	
Frederick	514	390	75.9%	643	4.9%	8.7%	13.6%	72.8%	
Garrett	19	15	78.9%	768	6.7%	13.3%	13.3%	66.7%	
Harford	552	376	68.1%	689	6.6%	9.6%	14.6%	69.1%	
Howard	753	588	78.1%	674	4.6%	9.0%	12.1%	74.3%	
Kent	49	34	69.4%	769	5.9%	8.8%	8.8%	76.5%	
Montgomery	3,766	2,699	71.7%	629	5.9%	10.8%	16.5%	66.8%	
Prince George's	8,093	6,215	76.8%	651	6.0%	9.8%	15.1%	69.1%	
Queen Anne's	59	46	78.0%	645	10.9%	10.9%	10.9%	67.4%	
Saint Mary's	163	129	79.1%	642	4.7%	12.4%	14.0%	69.0%	
Somerset	97	78	80.4%	642	5.1%	9.0%	20.5%	65.4%	
Talbot	76	66	86.8%	596	6.1%	10.6%	21.2%	62.1%	
Washington	394	289	73.4%	719	3.8%	9.7%	13.8%	72.7%	
Wicomico	287	231	80.5%	599	8.7%	14.7%	14.7%	61.9%	
Worcester	72	58	80.6%	676	5.2%	6.9%	22.4%	65.5%	
Corrections	184	157	85.3%	741	3.2%	8.9%	12.1%	75.8%	
Total	31,681	23,799	75.1%	650	6.6%	10.2%	14.9%	68.3%	

Table 5 – Viral Load Test Results During July 1, 2022 through June 30, 2023 for People Aged 13+ Living with Diagnosed HIV, Alive on June 30, 2023, by Jurisdiction of Current Residence, Reported through December 31, 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	105	88	83.8%	93.2%	57,900
Anne Arundel	1,438	924	64.3%	91.1%	11,150
Baltimore City	9,861	6,797	68.9%	86.7%	7,930
Baltimore	3,801	2,556	67.2%	90.0%	10,450
Calvert	146	119	81.5%	92.4%	650
Caroline	61	47	77.0%	89.4%	34,700
Carroll	156	107	68.6%	92.5%	18,938
Cecil	158	93	58.9%	87.1%	28,234
Charles	713	484	67.9%	90.3%	8,090
Dorchester	164	112	68.3%	87.5%	5,190
Frederick	514	346	67.3%	89.3%	922
Garrett	19	15	78.9%	100.0%	--
Harford	552	337	61.1%	91.4%	4,710
Howard	753	497	66.0%	93.4%	3,060
Kent	49	30	61.2%	86.7%	62,060
Montgomery	3,766	2,315	61.5%	91.2%	6,739
Prince George's	8,093	5,427	67.1%	89.1%	8,755
Queen Anne's	59	39	66.1%	94.9%	79,820
Saint Mary's	163	122	74.8%	88.5%	7,390
Somerset	97	73	75.3%	93.2%	9,760
Talbot	76	52	68.4%	94.2%	1,260
Washington	394	278	70.6%	91.7%	1,950
Wicomico	287	221	77.0%	88.2%	16,595
Worcester	72	57	79.2%	86.0%	5,815
Corrections	184	150	81.5%	92.7%	544
Total	31,681	21,286	67.2%	89.0%	8,134

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

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31, 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.