



Maryland HIV Update

Data from October 1, 2022, through September 30, 2023, reported through March 31, 2024

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 Prevention and Health Promotion Administration
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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 September 30, 2023.

Data presented were reported to the MDH through March 31, 2024. Reported new diagnoses and estimates of people living with diagnosed HIV are as of September 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 March 31, 2024.

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 October 1, 2022 through September 30, 2023, by Jurisdiction of Residence at Diagnosis, Reported through March 31, 2024

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	0.6%	6.8	3	0.7%	5.1
Anne Arundel	499,060	43	5.9%	8.6	20	4.6%	4.0
Baltimore City	485,365	158	21.9%	32.6	95	21.9%	19.6
Baltimore	717,811	80	11.1%	11.1	44	10.2%	6.1
Calvert	79,743	7	1.0%	8.8	2	0.5%	2.5
Caroline	27,937	5	0.7%	17.9	2	0.5%	7.2
Carroll	148,583	2	0.3%	1.3	4	0.9%	2.7
Cecil	88,919	5	0.7%	5.6	2	0.5%	2.2
Charles	142,343	18	2.5%	12.6	9	2.1%	6.3
Dorchester	27,848	4	0.6%	14.4	4	0.9%	14.4
Frederick	240,559	15	2.1%	6.2	8	1.8%	3.3
Garrett	25,054	0	0.0%	0.0	0	0.0%	0.0
Harford	223,232	8	1.1%	3.6	6	1.4%	2.7
Howard	280,829	11	1.5%	3.9	13	3.0%	4.6
Kent	17,279	1	0.1%	5.8	0	0.0%	0.0
Montgomery	886,227	104	14.4%	11.7	63	14.5%	7.1
Prince George's	798,706	217	30.0%	27.2	131	30.3%	16.4
Queen Anne's	44,380	1	0.1%	2.3	2	0.5%	4.5
Saint Mary's	95,727	4	0.6%	4.2	3	0.7%	3.1
Somerset	21,527	6	0.8%	27.9	3	0.7%	13.9
Talbot	33,113	0	0.0%	0.0	0	0.0%	0.0
Washington	132,158	12	1.7%	9.1	7	1.6%	5.3
Wicomico	88,216	15	2.1%	17.0	10	2.3%	11.3
Worcester	47,616	3	0.4%	6.3	1	0.2%	2.1
Corrections	--	0	0.0%	--	0	0.0%	--
Total	5,211,066	723	100.0%	14.0	432	100.0%	8.4

Table 2 – HIV Diagnoses, Among People Aged 13+ During October 1, 2022 through September 30, 2023, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through March 31, 2024

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	43	81.3%	91.7%	33.3%	100.0%	340
Baltimore City	158	92.8%	98.8%	24.0%	97.6%	392
Baltimore	80	92.0%	94.3%	28.7%	96.6%	362
Calvert	7	62.5%	87.5%	***	100.0%	281
Caroline	5	100.0%	100.0%	***	***	***
Carroll	2	***	***	***	***	***
Cecil	5	***	***	***	***	***
Charles	18	66.7%	100.0%	***	100.0%	337
Dorchester	4	***	***	***	***	***
Frederick	15	90.0%	95.0%	45.0%	100.0%	257
Garrett	0	--	--	--	--	--
Harford	8	71.4%	71.4%	***	85.7%	356
Howard	11	92.3%	100.0%	38.5%	84.6%	364
Kent	1	***	***	***	***	***
Montgomery	104	88.1%	98.0%	32.7%	97.0%	326
Prince George's	217	89.5%	95.0%	28.5%	98.0%	367
Queen Anne's	1	***	***	***	***	***
Saint Mary's	4	***	***	***	***	***
Somerset	6	100.0%	100.0%	***	100.0%	326
Talbot	0	--	--	--	--	--
Washington	12	83.3%	91.7%	***	100.0%	548
Wicomico	15	100.0%	100.0%	56.3%	93.8%	154
Worcester	3	***	***	***	***	***
Corrections	0	--	--	--	--	--
Total	723	88.9%	95.9%	29.6%	97.1%	358

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

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2023, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through March 31, 2024

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	118	0.4%	200.6	499	20.4%
Anne Arundel	499,060	1,353	4.1%	271.1	369	1,458	4.6%	292.1	342	7.8%
Baltimore City	485,365	11,554	34.7%	2,380.5	42	9,805	30.8%	2,020.1	50	-15.1%
Baltimore	717,811	3,374	10.1%	470.0	213	3,842	12.1%	535.2	187	13.9%
Calvert	79,743	123	0.4%	154.2	648	144	0.5%	180.6	554	17.1%
Caroline	27,937	70	0.2%	250.6	399	59	0.2%	211.2	474	-15.7%
Carroll	148,583	162	0.5%	109.0	917	164	0.5%	110.4	906	1.2%
Cecil	88,919	134	0.4%	150.7	664	160	0.5%	179.9	556	19.4%
Charles	142,343	558	1.7%	392.0	255	714	2.2%	501.6	199	28.0%
Dorchester	27,848	127	0.4%	456.0	219	159	0.5%	571.0	175	25.2%
Frederick	240,559	408	1.2%	169.6	590	524	1.6%	217.8	459	28.4%
Garrett	25,054	8	0.0%	31.9	3,132	21	0.1%	83.8	1,193	162.5%
Harford	223,232	465	1.4%	208.3	480	550	1.7%	246.4	406	18.3%
Howard	280,829	650	2.0%	231.5	432	751	2.4%	267.4	374	15.5%
Kent	17,279	44	0.1%	254.6	393	50	0.2%	289.4	346	13.6%
Montgomery	886,227	4,297	12.9%	484.9	206	3,793	11.9%	428.0	234	-11.7%
Prince George's	798,706	8,284	24.9%	1,037.2	96	8,153	25.6%	1,020.8	98	-1.6%
Queen Anne's	44,380	57	0.2%	128.4	779	57	0.2%	128.4	779	0.0%
Saint Mary's	95,727	151	0.5%	157.7	634	169	0.5%	176.5	566	11.9%
Somerset	21,527	84	0.3%	390.2	256	101	0.3%	469.2	213	20.2%
Talbot	33,113	61	0.2%	184.2	543	76	0.2%	229.5	436	24.6%
Washington	132,158	333	1.0%	252.0	397	400	1.3%	302.7	330	20.1%
Wicomico	88,216	285	0.9%	323.1	310	300	0.9%	340.1	294	5.3%
Worcester	47,616	77	0.2%	161.7	618	74	0.2%	155.4	643	-3.9%
Corrections	--	555	1.7%	--	--	198	0.6%	--	--	--
Total	5,211,066	33,312	100.0%	639.3	156	31,840	100.0%	611.0	164	-4.4%

Table 4 – CD4 Test Results During October 1, 2022 through September 30, 2023 for People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2023, by Jurisdiction of Current Residence, Reported through March 31, 2024

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	118	108	91.5%	719	3.7%	7.4%	14.8%	74.1%	
Anne Arundel	1,458	1,083	74.3%	691	6.7%	8.8%	12.6%	71.9%	
Baltimore City	9,805	7,372	75.2%	639	7.7%	11.2%	15.1%	66.0%	
Baltimore	3,842	2,818	73.3%	673	6.4%	9.3%	13.9%	70.3%	
Calvert	144	114	79.2%	708	5.3%	14.0%	9.6%	71.1%	
Caroline	59	48	81.4%	685	8.3%	10.4%	10.4%	70.8%	
Carroll	164	123	75.0%	589	8.1%	12.2%	10.6%	69.1%	
Cecil	160	99	61.9%	574	6.1%	13.1%	18.2%	62.6%	
Charles	714	559	78.3%	678	4.8%	10.4%	13.4%	71.4%	
Dorchester	159	137	86.2%	666	8.0%	14.6%	13.9%	63.5%	
Frederick	524	402	76.7%	640	4.2%	11.2%	14.4%	70.1%	
Garrett	21	17	81.0%	698	5.9%	17.6%	11.8%	64.7%	
Harford	550	375	68.2%	663	5.6%	9.3%	14.4%	70.7%	
Howard	751	584	77.8%	667	5.3%	10.1%	12.0%	72.6%	
Kent	50	37	74.0%	658	10.8%	5.4%	18.9%	64.9%	
Montgomery	3,793	2,706	71.3%	623	5.9%	10.7%	16.9%	66.5%	
Prince George's	8,153	6,268	76.9%	648	6.2%	9.8%	15.3%	68.7%	
Queen Anne's	57	48	84.2%	702	8.3%	12.5%	14.6%	64.6%	
Saint Mary's	169	138	81.7%	596	3.6%	13.8%	15.2%	67.4%	
Somerset	101	83	82.2%	638	6.0%	12.0%	20.5%	61.4%	
Talbot	76	65	85.5%	549	9.2%	12.3%	23.1%	55.4%	
Washington	400	303	75.8%	715	5.3%	7.9%	16.8%	70.0%	
Wicomico	300	238	79.3%	567	9.7%	15.5%	16.4%	58.4%	
Worcester	74	64	86.5%	654	4.7%	4.7%	20.3%	70.3%	
Corrections	198	167	84.3%	721	4.2%	9.6%	12.6%	73.7%	
Total	31,840	23,956	75.2%	648	6.6%	10.4%	15.0%	68.0%	

Table 5 – Viral Load Test Results During October 1, 2022 through September 30, 2023 for People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2023, by Jurisdiction of Current Residence, Reported through March 31, 2024

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	118	98	83.1%	93.9%	57,900
Anne Arundel	1,458	837	57.4%	91.6%	19,910
Baltimore City	9,805	6,094	62.2%	87.3%	8,100
Baltimore	3,842	2,301	59.9%	90.5%	10,300
Calvert	144	108	75.0%	94.4%	23,735
Caroline	59	36	61.0%	86.1%	34,700
Carroll	164	104	63.4%	91.3%	30,400
Cecil	160	86	53.8%	88.4%	774
Charles	714	445	62.3%	92.1%	15,326
Dorchester	159	97	61.0%	88.7%	22,000
Frederick	524	331	63.2%	90.3%	1,001
Garrett	21	13	61.9%	100.0%	--
Harford	550	307	55.8%	91.9%	12,600
Howard	751	449	59.8%	93.3%	2,580
Kent	50	29	58.0%	86.2%	62,060
Montgomery	3,793	2,101	55.4%	92.0%	4,965
Prince George's	8,153	5,000	61.3%	89.8%	7,565
Queen Anne's	57	36	63.2%	94.4%	79,820
Saint Mary's	169	117	69.2%	89.7%	6,320
Somerset	101	73	72.3%	90.4%	340
Talbot	76	46	60.5%	95.7%	16,055
Washington	400	259	64.8%	91.9%	867
Wicomico	300	209	69.7%	88.5%	16,595
Worcester	74	53	71.6%	86.8%	8,480
Corrections	198	150	75.8%	90.0%	5,140
Total	31,840	19,379	60.9%	89.7%	8,240

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 September 30, 2023 and not reported to have died as of March 31, 2024.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of March 31, 2024.

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, 2023.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2023.

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.