



Maryland HIV Update

Data from January 1, 2023, through December 31, 2023, reported through June 30, 2024

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Prevention and Health Promotion Administration
Maryland Department of Health
<https://phpa.health.maryland.gov/OIDEOR/CHSE/pages/Home.aspx>
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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 December 31, 2023.

Data presented were reported to the MDH through June 30, 2024. Reported new diagnoses and estimates of people living with diagnosed HIV are as of December 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. Estimates 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, 2014. 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 2014. 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 June 30, 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.

English

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中文/Chinese

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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 January 1, 2023 through December 31, 2023, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 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	58,795	3	0.4%	5.1	1	0.2%	1.7
Anne Arundel	499,375	44	6.2%	8.8	25	5.8%	5.0
Baltimore City	479,680	167	23.4%	34.8	103	23.7%	21.5
Baltimore	715,617	86	12.0%	12.0	50	11.5%	7.0
Calvert	79,742	8	1.1%	10.0	2	0.5%	2.5
Caroline	27,968	5	0.7%	17.9	1	0.2%	3.6
Carroll	149,057	2	0.3%	1.3	3	0.7%	2.0
Cecil	89,421	5	0.7%	5.6	2	0.5%	2.2
Charles	143,980	14	2.0%	9.7	9	2.1%	6.3
Dorchester	28,074	4	0.6%	14.2	4	0.9%	14.2
Frederick	245,011	19	2.7%	7.8	10	2.3%	4.1
Garrett	25,000	0	0.0%	0.0	0	0.0%	0.0
Harford	223,852	7	1.0%	3.1	6	1.4%	2.7
Howard	281,677	12	1.7%	4.3	11	2.5%	3.9
Kent	17,258	1	0.1%	5.8	0	0.0%	0.0
Montgomery	891,528	99	13.9%	11.1	61	14.1%	6.8
Prince George's	799,518	194	27.2%	24.3	118	27.2%	14.8
Queen Anne's	44,924	0	0.0%	0.0	1	0.2%	2.2
Saint Mary's	95,945	5	0.7%	5.2	4	0.9%	4.2
Somerset	21,827	7	1.0%	32.1	2	0.5%	9.2
Talbot	32,985	1	0.1%	3.0	0	0.0%	0.0
Washington	132,470	12	1.7%	9.1	6	1.4%	4.5
Wicomico	87,949	16	2.2%	18.2	13	3.0%	14.8
Worcester	47,792	3	0.4%	6.3	2	0.5%	4.2
Corrections	--	0	0.0%	--	0	0.0%	--
Total	5,219,445	714	100.0%	13.9	434	100.0%	8.4

Table 2 – HIV Diagnoses, Among People Aged 13+ During January 1, 2023 through December 31, 2023, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through June 30, 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	3	***	***	***	***	***
Anne Arundel	44	79.5%	90.9%	36.4%	100.0%	312
Baltimore City	167	92.2%	98.2%	24.6%	97.6%	392
Baltimore	86	91.9%	94.2%	30.2%	96.5%	355
Calvert	8	62.5%	87.5%	***	100.0%	281
Caroline	5	100.0%	100.0%	***	***	***
Carroll	2	***	***	***	***	***
Cecil	5	***	***	***	***	***
Charles	14	64.3%	100.0%	***	100.0%	318
Dorchester	4	***	***	***	***	***
Frederick	19	89.5%	94.7%	47.4%	100.0%	206
Garrett	0	--	--	--	--	--
Harford	7	71.4%	71.4%	***	85.7%	356
Howard	12	91.7%	100.0%	41.7%	91.7%	364
Kent	1	***	***	***	***	***
Montgomery	99	88.9%	98.0%	32.3%	98.0%	327
Prince George's	194	89.2%	94.8%	30.4%	98.5%	359
Queen Anne's	0	--	--	--	--	--
Saint Mary's	5	100.0%	100.0%	***	100.0%	481
Somerset	7	100.0%	100.0%	***	100.0%	326
Talbot	1	***	***	***	***	***
Washington	12	83.3%	91.7%	***	100.0%	548
Wicomico	16	100.0%	100.0%	56.3%	93.8%	154
Worcester	3	***	***	***	***	***
Corrections	0	--	--	--	--	--
Total	714	88.7%	95.7%	30.7%	97.5%	353

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

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2023, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 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	58,795	99	0.3%	168.4	594	112	0.4%	190.5	525	13.1%
Anne Arundel	499,375	1,362	4.1%	272.7	367	1,491	4.7%	298.6	335	9.5%
Baltimore City	479,680	11,551	34.6%	2,408.1	42	9,777	30.6%	2,038.2	49	-15.4%
Baltimore	715,617	3,399	10.2%	475.0	211	3,824	12.0%	534.4	187	12.5%
Calvert	79,742	122	0.4%	153.0	654	148	0.5%	185.6	539	21.3%
Caroline	27,968	70	0.2%	250.3	400	63	0.2%	225.3	444	-10.0%
Carroll	149,057	163	0.5%	109.4	914	161	0.5%	108.0	926	-1.2%
Cecil	89,421	134	0.4%	149.9	667	159	0.5%	177.8	562	18.7%
Charles	143,980	562	1.7%	390.3	256	726	2.3%	504.2	198	29.2%
Dorchester	28,074	127	0.4%	452.4	221	159	0.5%	566.4	177	25.2%
Frederick	245,011	410	1.2%	167.3	598	522	1.6%	213.1	469	27.3%
Garrett	25,000	8	0.0%	32.0	3,125	19	0.1%	76.0	1,316	137.5%
Harford	223,852	464	1.4%	207.3	482	549	1.7%	245.3	408	18.3%
Howard	281,677	653	2.0%	231.8	431	750	2.3%	266.3	376	14.9%
Kent	17,258	44	0.1%	255.0	392	53	0.2%	307.1	326	20.5%
Montgomery	891,528	4,325	12.9%	485.1	206	3,798	11.9%	426.0	235	-12.2%
Prince George's	799,518	8,316	24.9%	1,040.1	96	8,204	25.7%	1,026.1	97	-1.3%
Queen Anne's	44,924	57	0.2%	126.9	788	56	0.2%	124.7	802	-1.8%
Saint Mary's	95,945	152	0.5%	158.4	631	167	0.5%	174.1	575	9.9%
Somerset	21,827	84	0.3%	384.8	260	94	0.3%	430.7	232	11.9%
Talbot	32,985	61	0.2%	184.9	541	74	0.2%	224.3	446	21.3%
Washington	132,470	335	1.0%	252.9	395	402	1.3%	303.5	330	20.0%
Wicomico	87,949	284	0.9%	322.9	310	308	1.0%	350.2	286	8.5%
Worcester	47,792	78	0.2%	163.2	613	77	0.2%	161.1	621	-1.3%
Corrections	--	545	1.6%	--	--	236	0.7%	--	--	--
Total	5,219,445	33,405	100.0%	640.0	156	31,929	100.0%	611.7	163	-4.4%

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

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%	701	4.1%	8.2%	14.3%	73.5%
Anne Arundel	1,491	1,114	74.7%	689	6.8%	7.8%	13.3%	72.1%
Baltimore City	9,777	7,382	75.5%	646	7.6%	11.0%	14.6%	66.8%
Baltimore	3,824	2,811	73.5%	671	6.1%	9.7%	13.6%	70.6%
Calvert	148	123	83.1%	709	5.7%	13.0%	8.9%	72.4%
Caroline	63	50	79.4%	711	8.0%	6.0%	10.0%	76.0%
Carroll	161	120	74.5%	603	6.7%	14.2%	10.8%	68.3%
Cecil	159	96	60.4%	626	8.3%	11.5%	19.8%	60.4%
Charles	726	564	77.7%	677	6.0%	9.8%	14.0%	70.2%
Dorchester	159	139	87.4%	655	7.9%	10.8%	12.9%	68.3%
Frederick	522	400	76.6%	650	4.3%	9.8%	14.0%	72.0%
Garrett	19	15	78.9%	781	6.7%	13.3%	6.7%	73.3%
Harford	549	386	70.3%	665	6.7%	9.6%	14.0%	69.7%
Howard	750	581	77.5%	672	4.5%	9.1%	12.9%	73.5%
Kent	53	44	83.0%	688	11.4%	9.1%	9.1%	70.5%
Montgomery	3,798	2,741	72.2%	624	6.0%	10.2%	17.2%	66.5%
Prince George's	8,204	6,331	77.2%	649	6.1%	9.2%	15.4%	69.3%
Queen Anne's	56	47	83.9%	685	8.5%	12.8%	10.6%	68.1%
Saint Mary's	167	137	82.0%	592	4.4%	15.3%	14.6%	65.7%
Somerset	94	77	81.9%	562	7.8%	13.0%	23.4%	55.8%
Talbot	74	61	82.4%	579	9.8%	8.2%	18.0%	63.9%
Washington	402	311	77.4%	716	4.2%	7.4%	15.8%	72.7%
Wicomico	308	238	77.3%	558	8.4%	14.7%	20.2%	56.7%
Worcester	77	63	81.8%	664	4.8%	6.3%	14.3%	74.6%
Corrections	236	207	87.7%	721	4.3%	7.7%	13.5%	74.4%
Total	31,929	24,136	75.6%	651	6.5%	10.0%	14.9%	68.6%

Table 5 – Viral Load Test Results During January 1, 2023 through December 31, 2023 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2023, by Jurisdiction of Current Residence, Reported through June 30, 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	112	84	75.0%	92.9%	57,900
Anne Arundel	1,491	702	47.1%	91.7%	27,916
Baltimore City	9,777	5,100	52.2%	87.8%	8,480
Baltimore	3,824	1,883	49.2%	91.5%	10,350
Calvert	148	99	66.9%	96.0%	68,050
Caroline	63	33	52.4%	87.9%	17,714
Carroll	161	76	47.2%	97.4%	21,555
Cecil	159	64	40.3%	87.5%	28,234
Charles	726	399	55.0%	92.0%	17,684
Dorchester	159	81	50.9%	88.9%	22,000
Frederick	522	273	52.3%	91.6%	2,370
Garrett	19	11	57.9%	100.0%	--
Harford	549	250	45.5%	93.2%	4,710
Howard	750	368	49.1%	93.8%	1,520
Kent	53	30	56.6%	86.7%	62,060
Montgomery	3,798	1,764	46.4%	91.9%	5,410
Prince George's	8,204	4,191	51.1%	90.4%	8,290
Queen Anne's	56	26	46.4%	92.3%	79,820
Saint Mary's	167	95	56.9%	92.6%	1,340
Somerset	94	50	53.2%	98.0%	220
Talbot	74	36	48.6%	94.4%	16,055
Washington	402	216	53.7%	91.7%	3,253
Wicomico	308	179	58.1%	88.8%	28,600
Worcester	77	44	57.1%	93.2%	8,480
Corrections	236	171	72.5%	88.9%	8,580
Total	31,929	16,225	50.8%	90.2%	8,860

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, 2014.

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, 2014.

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, 2023 and not reported to have died as of June 30, 2024.

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