



Maryland HIV Update

Data from October 1, 2021, through September 30, 2022, reported through March 31, 2023

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 Infectious Disease Prevention and Health Services Bureau
 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.

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, 2022.

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

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COVID-19 and HIV Surveillance Data

Data for 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing and care-related services.

The following HIV morbidity estimates may have been affected by the COVID-19 pandemic in 2021.

- Declines in new HIV infections, but rather decreases and/or delays in testing or changes in testing modality (e.g., self-testing).
- Caution should be used when interpreting prevalence (people living with HIV) estimates. Fewer HIV diagnoses and more deaths (resulting in lower prevalence) may be due to COVID-19 and not HIV activities.
- Declines in linkage to care, retention in care, and viral suppression estimates may be due to lack of laboratory testing during care visits (e.g., telemedicine) and/or changes in testing modality (e.g., self-testing).

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, 2009. 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 2009. 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 March 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.

Glossary of Terms

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, 2009.

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.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

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, 2022 and not reported to have died as of March 31, 2023.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of March 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, 2021.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2021.

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.

Reported 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.

Reported 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.

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

Total People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of September 30, 2022 not reported to have died as of March 31, 2023.

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

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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Maryland HIV Update – October 1, 2021, through September 30, 2022

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

Table 1 – Reported HIV Diagnoses and Reported AIDS Diagnoses, Among People Aged 13+ During October 1, 2021 through September 30, 2022, by Jurisdiction of Residence at Diagnosis, Reported through March 31, 2023

Jurisdiction of Residence at Diagnosis	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+			Reported AIDS Diagnoses Among People Aged 13+		
		No.	% of Total	Rate	No.	% of Total	Rate
Allegany	59,378	0	0.0%	0.0	2	0.5%	3.4
Anne Arundel	495,875	29	3.9%	5.8	26	6.5%	5.2
Baltimore City	490,631	159	21.1%	32.4	106	26.6%	21.6
Baltimore	717,800	91	12.1%	12.7	38	9.5%	5.3
Calvert	78,973	1	0.1%	1.3	2	0.5%	2.5
Caroline	27,816	1	0.1%	3.6	1	0.3%	3.6
Carroll	147,304	3	0.4%	2.0	3	0.8%	2.0
Cecil	87,791	0	0.0%	0.0	2	0.5%	2.3
Charles	140,617	20	2.7%	14.2	10	2.5%	7.1
Dorchester	27,673	2	0.3%	7.2	1	0.3%	3.6
Frederick	234,052	13	1.7%	5.6	6	1.5%	2.6
Garrett	25,091	0	0.0%	0.0	0	0.0%	0.0
Harford	221,922	14	1.9%	6.3	5	1.3%	2.3
Howard	278,903	21	2.8%	7.5	15	3.8%	5.4
Kent	17,162	2	0.3%	11.7	1	0.3%	5.8
Montgomery	884,987	103	13.7%	11.6	42	10.6%	4.7
Prince George's	802,287	250	33.2%	31.2	113	28.4%	14.1
Queen Anne's	43,380	2	0.3%	4.6	0	0.0%	0.0
Saint Mary's	95,213	6	0.8%	6.3	4	1.0%	4.2
Somerset	21,550	3	0.4%	13.9	2	0.5%	9.3
Talbot	32,881	0	0.0%	0.0	0	0.0%	0.0
Washington	131,419	7	0.9%	5.3	7	1.8%	5.3
Wicomico	87,489	22	2.9%	25.1	11	2.8%	12.6
Worcester	46,885	3	0.4%	6.4	1	0.3%	2.1
Corrections	--	0	0.0%	--	0	0.0%	--
Total	5,197,078	752	100.0%	15.1	398	100.0%	7.8

Table 2 – Reported HIV Diagnoses, Among People Aged 13+ During October 1, 2021 through September 30, 2022, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through March 31, 2023

Jurisdiction of Residence at HIV Diagnosis	Reported 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	0	--	--	--	--	--
Anne Arundel	29	81.5%	100.0%	33.3%	96.3%	350
Baltimore City	159	86.7%	94.9%	18.4%	95.6%	442
Baltimore	91	90.1%	95.1%	18.5%	97.5%	336
Calvert	1	***	***	***	***	***
Caroline	1	***	***	***	***	***
Carroll	3	***	***	***	***	***
Cecil	0	--	--	--	--	--
Charles	20	91.7%	95.8%	29.2%	91.7%	369
Dorchester	2	***	***	***	***	***
Frederick	13	81.8%	90.9%	***	100.0%	328
Garrett	0	--	--	--	--	--
Harford	14	81.8%	100.0%	***	100.0%	278
Howard	21	81.0%	100.0%	38.1%	100.0%	422
Kent	2	***	***	***	***	***
Montgomery	103	87.2%	97.2%	36.7%	96.3%	333
Prince George's	250	89.9%	96.5%	24.5%	96.5%	411
Queen Anne's	2	***	***	***	***	***
Saint Mary's	6	***	***	***	***	***
Somerset	3	***	***	***	***	***
Talbot	0	--	--	--	--	--
Washington	7	100.0%	100.0%	***	87.5%	335
Wicomico	22	78.9%	84.2%	36.8%	94.7%	285
Worcester	3	***	***	***	***	***
Corrections	0	--	--	--	--	--
Total	752	87.6%	95.7%	26.3%	96.3%	379

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

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

Jurisdiction of Residence	Population Age 13+	Total 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	59,378	94	0.3%	158.3	632	108	0.3%	181.9	550	14.9%
Anne Arundel	495,875	1,345	4.0%	271.2	369	1,432	4.5%	288.8	346	6.5%
Baltimore City	490,631	11,743	35.3%	2,393.4	42	10,333	32.2%	2,106.1	47	-12.0%
Baltimore	717,800	3,348	10.1%	466.4	214	3,813	11.9%	531.2	188	13.9%
Calvert	78,973	118	0.4%	149.4	669	138	0.4%	174.7	572	16.9%
Caroline	27,816	69	0.2%	248.1	403	62	0.2%	222.9	449	-10.1%
Carroll	147,304	157	0.5%	106.6	938	161	0.5%	109.3	915	2.5%
Cecil	87,791	129	0.4%	146.9	681	158	0.5%	180.0	556	22.5%
Charles	140,617	541	1.6%	384.7	260	700	2.2%	497.8	201	29.4%
Dorchester	27,673	126	0.4%	455.3	220	151	0.5%	545.7	183	19.8%
Frederick	234,052	401	1.2%	171.3	584	519	1.6%	221.7	451	29.4%
Garrett	25,091	8	0.0%	31.9	3,136	15	0.0%	59.8	1,673	87.5%
Harford	221,922	465	1.4%	209.5	477	553	1.7%	249.2	401	18.9%
Howard	278,903	644	1.9%	230.9	433	752	2.3%	269.6	371	16.8%
Kent	17,162	45	0.1%	262.2	381	52	0.2%	303.0	330	15.6%
Montgomery	884,987	4,257	12.8%	481.0	208	3,730	11.6%	421.5	237	-12.4%
Prince George's	802,287	8,156	24.5%	1,016.6	98	8,059	25.1%	1,004.5	100	-1.2%
Queen Anne's	43,380	58	0.2%	133.7	748	58	0.2%	133.7	748	0.0%
Saint Mary's	95,213	148	0.4%	155.4	643	164	0.5%	172.2	581	10.8%
Somerset	21,550	79	0.2%	366.6	273	95	0.3%	440.8	227	20.3%
Talbot	32,881	63	0.2%	191.6	522	83	0.3%	252.4	396	31.7%
Washington	131,419	326	1.0%	248.1	403	389	1.2%	296.0	338	19.3%
Wicomico	87,489	271	0.8%	309.8	323	276	0.9%	315.5	317	1.8%
Worcester	46,885	78	0.2%	166.4	601	62	0.2%	132.2	756	-20.5%
Corrections	--	579	1.7%	--	--	233	0.7%	--	--	--
Total	5,197,078	33,248	100.0%	639.7	156	32,096	100.0%	617.6	162	-3.5%

Table 4 – CD4 Test Results During October 1, 2021 through September 30, 2022 for People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2022, by Jurisdiction of Current Residence, Reported through March 31, 2023

Jurisdiction of Current Residence	Total 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	108	96	88.9%	699	3.1%	6.3%	10.4%	80.2%	
Anne Arundel	1,432	1,080	75.4%	675	5.8%	9.3%	15.5%	69.4%	
Baltimore City	10,333	7,518	72.8%	630	8.7%	11.1%	14.8%	65.5%	
Baltimore	3,813	2,754	72.2%	660	5.2%	10.3%	15.3%	69.1%	
Calvert	138	116	84.1%	675	6.0%	12.9%	10.3%	70.7%	
Caroline	62	48	77.4%	744	6.3%	6.3%	6.3%	81.3%	
Carroll	161	125	77.6%	654	7.2%	7.2%	16.8%	68.8%	
Cecil	158	102	64.6%	605	5.9%	12.7%	13.7%	67.6%	
Charles	700	543	77.6%	680	7.9%	9.8%	14.0%	68.3%	
Dorchester	151	118	78.1%	613	5.1%	17.8%	12.7%	64.4%	
Frederick	519	367	70.7%	651	5.2%	10.1%	16.1%	68.7%	
Garrett	15	12	80.0%	635	0.0%	8.3%	16.7%	75.0%	
Harford	553	375	67.8%	672	6.4%	11.5%	13.3%	68.8%	
Howard	752	564	75.0%	646	5.7%	9.6%	14.7%	70.0%	
Kent	52	37	71.2%	700	5.4%	2.7%	16.2%	75.7%	
Montgomery	3,730	2,570	68.9%	616	5.3%	11.5%	17.5%	65.7%	
Prince George's	8,059	6,076	75.4%	638	6.3%	10.5%	15.8%	67.3%	
Queen Anne's	58	43	74.1%	596	9.3%	18.6%	9.3%	62.8%	
Saint Mary's	164	140	85.4%	625	7.1%	11.4%	16.4%	65.0%	
Somerset	95	72	75.8%	582	5.6%	12.5%	16.7%	65.3%	
Talbot	83	70	84.3%	549	12.9%	17.1%	12.9%	57.1%	
Washington	389	295	75.8%	697	6.4%	8.8%	14.2%	70.5%	
Wicomico	276	215	77.9%	547	10.7%	18.1%	15.3%	55.8%	
Worcester	62	49	79.0%	640	6.1%	6.1%	18.4%	69.4%	
Corrections	233	185	79.4%	705	3.2%	7.0%	13.0%	76.8%	
Total	32,096	23,570	73.4%	640	6.8%	10.8%	15.3%	67.1%	

Table 5 – Viral Load Test Results During October 1, 2021 through September 30, 2022 for People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2022, by Jurisdiction of Current Residence, Reported through March 31, 2023

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Allegany	108	98	90.7%	98.0%	33,976
Anne Arundel	1,432	1,006	70.3%	89.4%	3,612
Baltimore City	10,333	7,404	71.7%	86.0%	5,100
Baltimore	3,813	2,705	70.9%	89.5%	6,800
Calvert	138	113	81.9%	88.5%	11,997
Caroline	62	46	74.2%	93.5%	581
Carroll	161	120	74.5%	92.5%	378
Cecil	158	93	58.9%	84.9%	3,070
Charles	700	493	70.4%	88.0%	9,729
Dorchester	151	103	68.2%	93.2%	1,970
Frederick	519	348	67.1%	89.4%	996
Garrett	15	12	80.0%	100.0%	--
Harford	553	350	63.3%	87.4%	9,415
Howard	752	537	71.4%	89.2%	4,225
Kent	52	32	61.5%	87.5%	13,046
Montgomery	3,730	2,255	60.5%	90.2%	11,050
Prince George's	8,059	5,351	66.4%	88.3%	7,750
Queen Anne's	58	39	67.2%	92.3%	22,600
Saint Mary's	164	134	81.7%	87.3%	19,300
Somerset	95	70	73.7%	85.7%	32,415
Talbot	83	67	80.7%	91.0%	5,835
Washington	389	293	75.3%	94.9%	1,950
Wicomico	276	224	81.2%	83.9%	13,255
Worcester	62	49	79.0%	91.8%	42,250
Corrections	233	161	69.1%	86.3%	2,695
Total	32,096	22,103	68.9%	88.1%	6,140