



Maryland HIV/AIDS Quarterly Update

Third Quarter 2022

Data reported through September 30, 2022
 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. Data for 2020-2021 should be interpreted with caution due to the impact of the Coronavirus Disease 2019 (COVID-19) pandemic on access to HIV testing and care-related services.

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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 March 31, 2022.

Data presented were reported to the MDH through September 30, 2022. Reported new diagnoses and estimates of people living with diagnosed HIV are as of March 31, 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.

COVID-19 and HIV Surveillance Data

Data for 2020-2021 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 2020-2021.

- Declines in new HIV diagnoses might not represent 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.

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. This process is fully completed on the end-of-the-year data set.

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, 2022.

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 March 31, 2022 and not reported to have died as of September 30, 2022.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of September 30, 2022.

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 March 31, 2022 not reported to have died as of September 30, 2022.

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 Maryland Department of Health (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 – Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

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

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	2	0.3%	3.4	1	0.2%	1.7
Anne Arundel	495,875	30	4.0%	6.0	23	5.4%	4.6
Baltimore City	490,631	170	22.6%	34.6	115	27.1%	23.4
Baltimore	717,800	101	13.4%	14.1	51	12.0%	7.1
Calvert	78,973	3	0.4%	3.8	2	0.5%	2.5
Caroline	27,816	0	0.0%	0.0	0	0.0%	0.0
Carroll	147,304	7	0.9%	4.8	5	1.2%	3.4
Cecil	87,791	1	0.1%	1.1	2	0.5%	2.3
Charles	140,617	24	3.2%	17.1	11	2.6%	7.8
Dorchester	27,673	4	0.5%	14.5	1	0.2%	3.6
Frederick	234,052	10	1.3%	4.3	9	2.1%	3.8
Garrett	25,091	0	0.0%	0.0	0	0.0%	0.0
Harford	221,922	15	2.0%	6.8	3	0.7%	1.4
Howard	278,903	23	3.1%	8.2	17	4.0%	6.1
Kent	17,162	2	0.3%	11.7	2	0.5%	11.7
Montgomery	884,987	103	13.7%	11.6	41	9.7%	4.6
Prince George's	802,287	224	29.7%	27.9	124	29.2%	15.5
Queen Anne's	43,380	1	0.1%	2.3	2	0.5%	4.6
Saint Mary's	95,213	7	0.9%	7.4	2	0.5%	2.1
Somerset	21,550	2	0.3%	9.3	1	0.2%	4.6
Talbot	32,881	1	0.1%	3.0	1	0.2%	3.0
Washington	131,419	12	1.6%	9.1	7	1.7%	5.3
Wicomico	87,489	11	1.5%	12.6	4	0.9%	4.6
Worcester	46,885	0	0.0%	0.0	0	0.0%	0.0
Corrections	--	0	0.0%	--	0	0.0%	--
Total	5,197,078	753	100.0%	14.8	424	100.0%	8.3

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

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	2	***	***	***	***	***
Anne Arundel	30	89.5%	92.1%	23.7%	94.7%	343
Baltimore City	170	85.2%	89.5%	19.8%	93.8%	400
Baltimore	101	89.8%	93.5%	26.9%	95.4%	383
Calvert	3	***	***	***	***	***
Caroline	0	--	--	--	--	--
Carroll	7	100.0%	100.0%	62.5%	100.0%	96
Cecil	1	***	***	***	***	***
Charles	24	88.0%	92.0%	32.0%	96.0%	365
Dorchester	4	***	***	***	***	***
Frederick	10	70.0%	80.0%	50.0%	90.0%	83
Garrett	0	--	--	--	--	--
Harford	15	77.8%	88.9%	0.0%	88.9%	489
Howard	23	83.3%	83.3%	20.8%	91.7%	353
Kent	2	***	***	***	***	***
Montgomery	103	85.6%	91.3%	31.7%	92.3%	378
Prince George's	224	85.2%	93.8%	26.7%	91.4%	407
Queen Anne's	1	***	***	***	***	***
Saint Mary's	7	85.7%	100.0%	***	100.0%	583
Somerset	2	***	***	***	***	***
Talbot	1	***	***	***	***	***
Washington	12	91.7%	91.7%	41.7%	91.7%	212
Wicomico	11	88.9%	88.9%	***	100.0%	279
Worcester	0	--	--	--	--	--
Corrections	0	--	--	--	--	--
Total	753	86.1%	91.7%	26.1%	93.1%	385

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

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

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	95	0.3%	160.0	625	105	0.3%	176.8	566	10.5%
Anne Arundel	495,875	1,348	4.0%	271.8	368	1,418	4.4%	286.0	350	5.2%
Baltimore City	490,631	11,906	35.7%	2,426.7	41	10,385	32.5%	2,116.7	47	-12.8%
Baltimore	717,800	3,355	10.1%	467.4	214	3,834	12.0%	534.1	187	14.3%
Calvert	78,973	117	0.4%	148.2	675	134	0.4%	169.7	589	14.5%
Caroline	27,816	67	0.2%	240.9	415	63	0.2%	226.5	442	-6.0%
Carroll	147,304	158	0.5%	107.3	932	163	0.5%	110.7	904	3.2%
Cecil	87,791	130	0.4%	148.1	675	153	0.5%	174.3	574	17.7%
Charles	140,617	537	1.6%	381.9	262	688	2.1%	489.3	204	28.1%
Dorchester	27,673	125	0.4%	451.7	221	148	0.5%	534.8	187	18.4%
Frederick	234,052	391	1.2%	167.1	599	502	1.6%	214.5	466	28.4%
Garrett	25,091	9	0.0%	35.9	2,788	15	0.0%	59.8	1,673	66.7%
Harford	221,922	473	1.4%	213.1	469	547	1.7%	246.5	406	15.6%
Howard	278,903	643	1.9%	230.5	434	742	2.3%	266.0	376	15.4%
Kent	17,162	44	0.1%	256.4	390	53	0.2%	308.8	324	20.5%
Montgomery	884,987	4,240	12.7%	479.1	209	3,697	11.6%	417.7	239	-12.8%
Prince George's	802,287	8,092	24.3%	1,008.6	99	8,000	25.0%	997.1	100	-1.1%
Queen Anne's	43,380	56	0.2%	129.1	775	55	0.2%	126.8	789	-1.8%
Saint Mary's	95,213	149	0.4%	156.5	639	165	0.5%	173.3	577	10.7%
Somerset	21,550	77	0.2%	357.3	280	86	0.3%	399.1	251	11.7%
Talbot	32,881	65	0.2%	197.7	506	82	0.3%	249.4	401	26.2%
Washington	131,419	326	1.0%	248.1	403	392	1.2%	298.3	335	20.2%
Wicomico	87,489	262	0.8%	299.5	334	268	0.8%	306.3	326	2.3%
Worcester	46,885	77	0.2%	164.2	609	64	0.2%	136.5	733	-16.9%
Corrections	--	605	1.8%	--	--	244	0.8%	--	--	--
Total	5,197,078	33,347	100.0%	641.6	156	32,003	100.0%	615.8	162	-4.0%

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

Jurisdiction of Current Residence	Total 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	105	93	88.6%	682	3.2%	5.4%	16.1%	75.3%
Anne Arundel	1,418	1,059	74.7%	655	7.1%	8.2%	14.7%	70.0%
Baltimore City	10,385	7,517	72.4%	614	8.7%	11.7%	16.2%	63.3%
Baltimore	3,834	2,752	71.8%	649	6.3%	10.4%	15.4%	67.9%
Calvert	134	109	81.3%	687	4.6%	11.0%	14.7%	69.7%
Caroline	63	53	84.1%	724	5.7%	7.5%	11.3%	75.5%
Carroll	163	120	73.6%	648	10.8%	5.8%	17.5%	65.8%
Cecil	153	97	63.4%	626	4.1%	11.3%	16.5%	68.0%
Charles	688	543	78.9%	694	8.5%	9.0%	14.2%	68.3%
Dorchester	148	104	70.3%	593	7.7%	17.3%	11.5%	63.5%
Frederick	502	366	72.9%	639	6.6%	11.5%	11.7%	70.2%
Garrett	15	12	80.0%	752	0.0%	8.3%	16.7%	75.0%
Harford	547	362	66.2%	653	7.5%	11.3%	14.6%	66.6%
Howard	742	564	76.0%	672	5.9%	9.8%	13.3%	71.1%
Kent	53	42	79.2%	713	9.5%	2.4%	14.3%	73.8%
Montgomery	3,697	2,551	69.0%	602	6.0%	11.3%	18.4%	64.2%
Prince George's	8,000	5,986	74.8%	646	6.3%	10.3%	15.8%	67.6%
Queen Anne's	55	43	78.2%	622	9.3%	11.6%	11.6%	67.4%
Saint Mary's	165	130	78.8%	610	7.7%	13.1%	20.0%	59.2%
Somerset	86	63	73.3%	642	11.1%	9.5%	19.0%	60.3%
Talbot	82	70	85.4%	565	12.9%	11.4%	17.1%	58.6%
Washington	392	298	76.0%	700	7.0%	9.1%	11.7%	72.1%
Wicomico	268	200	74.6%	536	9.0%	16.0%	21.0%	54.0%
Worcester	64	50	78.1%	617	4.0%	6.0%	18.0%	72.0%
Corrections	244	182	74.6%	726	5.5%	5.5%	12.6%	76.4%
Total	32,003	23,366	73.0%	634	7.2%	10.8%	15.9%	66.1%

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

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	105	94	89.5%	96.8%	577
Anne Arundel	1,418	1,020	71.9%	90.3%	9,310
Baltimore City	10,385	7,671	73.9%	87.3%	7,348
Baltimore	3,834	2,802	73.1%	90.1%	9,245
Calvert	134	110	82.1%	95.5%	550
Caroline	63	56	88.9%	96.4%	53,950
Carroll	163	120	73.6%	89.2%	21,000
Cecil	153	93	60.8%	90.3%	3,140
Charles	688	505	73.4%	86.9%	7,850
Dorchester	148	107	72.3%	91.6%	42,011
Frederick	502	362	72.1%	90.3%	1,050
Garrett	15	12	80.0%	100.0%	--
Harford	547	373	68.2%	87.4%	10,300
Howard	742	567	76.4%	90.3%	2,740
Kent	53	41	77.4%	90.2%	409,000
Montgomery	3,697	2,334	63.1%	90.0%	12,100
Prince George's	8,000	5,447	68.1%	89.1%	8,240
Queen Anne's	55	41	74.5%	92.7%	10,700
Saint Mary's	165	129	78.2%	89.9%	19,300
Somerset	86	63	73.3%	93.7%	20,950
Talbot	82	69	84.1%	87.0%	1,876
Washington	392	297	75.8%	92.3%	1,970
Wicomico	268	201	75.0%	85.1%	3,653
Worcester	64	49	76.6%	93.9%	27,500
Corrections	244	182	74.6%	86.3%	792
Total	32,003	22,745	71.1%	88.8%	7,630