



Maryland HIV/AIDS Quarterly Update

First Quarter 2022

Data reported through March 31, 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>
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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 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, 2021.

Data presented were reported to the MDH through March 31, 2022. Reported new diagnoses and estimates of people living with diagnosed HIV are as of September 30, 2021.

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.

- Incidence (new HIV infections or transmissions) estimates might be lower due to significant declines in the number of new HIV diagnoses.
- 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, 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 September 30, 2021 and not reported to have died as of March 31, 2022.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of March 31, 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, 2020.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2020.

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, 2021 not reported to have died as of March 31, 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 right 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/AIDS Quarterly Update – First Quarter 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, 2020 through September 30, 2021, by Jurisdiction of Residence at Diagnosis, Reported through March 31, 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	61,487	3	0.4%	4.9	1	0.2%	1.6
Anne Arundel	488,915	43	5.6%	8.8	14	3.2%	2.9
Baltimore City	498,775	153	19.8%	30.7	111	25.6%	22.3
Baltimore	697,539	104	13.5%	14.9	46	10.6%	6.6
Calvert	78,372	6	0.8%	7.7	3	0.7%	3.8
Caroline	27,860	1	0.1%	3.6	2	0.5%	7.2
Carroll	143,470	8	1.0%	5.6	4	0.9%	2.8
Cecil	87,352	6	0.8%	6.9	4	0.9%	4.6
Charles	136,982	28	3.6%	20.4	11	2.5%	8.0
Dorchester	27,124	4	0.5%	14.7	0	0.0%	0.0
Frederick	221,788	14	1.8%	6.3	8	1.8%	3.6
Garrett	25,235	0	0.0%	0.0	0	0.0%	0.0
Harford	216,746	4	0.5%	1.8	4	0.9%	1.8
Howard	272,971	23	3.0%	8.4	10	2.3%	3.7
Kent	17,134	5	0.6%	29.2	1	0.2%	5.8
Montgomery	879,817	93	12.1%	10.6	60	13.8%	6.8
Prince George's	761,933	240	31.1%	31.5	137	31.6%	18.0
Queen Anne's	43,732	1	0.1%	2.3	2	0.5%	4.6
Saint Mary's	95,244	4	0.5%	4.2	0	0.0%	0.0
Somerset	22,345	5	0.6%	22.4	2	0.5%	9.0
Talbot	32,289	2	0.3%	6.2	2	0.5%	6.2
Washington	128,052	14	1.8%	10.9	9	2.1%	7.0
Wicomico	87,648	8	1.0%	9.1	2	0.5%	2.3
Worcester	46,118	1	0.1%	2.2	1	0.2%	2.2
Corrections	--	1	0.1%	--	0	0.0%	--
Total	5,098,929	771	100.0%	15.2	434	100.0%	8.8

Table 2 – Reported HIV Diagnoses, Among People Aged 13+ During October 1, 2020 through September 30, 2021, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at Diagnosis, Reported through March 31, 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	3	***	***	***	***	***
Anne Arundel	43	90.0%	92.5%	25.0%	92.5%	331
Baltimore City	153	89.4%	94.0%	17.9%	93.4%	406
Baltimore	104	90.7%	94.1%	28.8%	96.6%	348
Calvert	6	***	***	0.0%	***	***
Caroline	1	***	***	***	***	***
Carroll	8	100.0%	100.0%	55.6%	100.0%	104
Cecil	6	***	***	***	***	***
Charles	28	91.3%	95.7%	30.4%	95.7%	364
Dorchester	4	***	***	***	***	***
Frederick	14	90.0%	90.0%	***	90.0%	508
Garrett	0	--	--	--	--	--
Harford	4	***	***	***	***	***
Howard	23	95.2%	95.2%	***	100.0%	394
Kent	5	***	***	0.0%	***	***
Montgomery	93	89.6%	91.7%	36.5%	91.7%	317
Prince George's	240	83.8%	93.6%	26.4%	90.2%	408
Queen Anne's	1	***	***	***	***	***
Saint Mary's	4	***	***	***	***	***
Somerset	5	0.0%	0.0%	0.0%	0.0%	
Talbot	2	***	***	***	***	***
Washington	14	91.7%	91.7%	41.7%	91.7%	212
Wicomico	8	100.0%	100.0%	***	100.0%	402
Worcester	1	***	***	***	***	***
Corrections	1	***	***	***	***	***
Total	771	88.5%	93.6%	26.1%	92.8%	388

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

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2021, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through March 31, 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	61,487	94	0.3%	152.9	654	106	0.3%	172.4	580	12.8%
Anne Arundel	488,915	1,336	4.0%	273.3	366	1,366	4.3%	279.4	358	2.2%
Baltimore City	498,775	11,932	35.9%	2,392.3	42	10,419	32.7%	2,088.9	48	-12.7%
Baltimore	697,539	3,333	10.0%	477.8	209	3,764	11.8%	539.6	185	12.9%
Calvert	78,372	118	0.4%	150.6	664	141	0.4%	179.9	556	19.5%
Caroline	27,860	67	0.2%	240.5	416	66	0.2%	236.9	422	-1.5%
Carroll	143,470	158	0.5%	110.1	908	163	0.5%	113.6	880	3.2%
Cecil	87,352	134	0.4%	153.4	652	159	0.5%	182.0	549	18.7%
Charles	136,982	525	1.6%	383.3	261	671	2.1%	489.8	204	27.8%
Dorchester	27,124	128	0.4%	471.9	212	159	0.5%	586.2	171	24.2%
Frederick	221,788	387	1.2%	174.5	573	510	1.6%	229.9	435	31.8%
Garrett	25,235	10	0.0%	39.6	2,524	15	0.0%	59.4	1,682	50.0%
Harford	216,746	465	1.4%	214.5	466	522	1.6%	240.8	415	12.3%
Howard	272,971	630	1.9%	230.8	433	730	2.3%	267.4	374	15.9%
Kent	17,134	46	0.1%	268.5	372	55	0.2%	321.0	312	19.6%
Montgomery	879,817	4,197	12.6%	477.0	210	3,679	11.6%	418.2	239	-12.3%
Prince George's	761,933	8,025	24.2%	1,053.2	95	7,988	25.1%	1,048.4	95	-0.5%
Queen Anne's	43,732	57	0.2%	130.3	767	53	0.2%	121.2	825	-7.0%
Saint Mary's	95,244	144	0.4%	151.2	661	163	0.5%	171.1	584	13.2%
Somerset	22,345	78	0.2%	349.1	286	86	0.3%	384.9	260	10.3%
Talbot	32,289	67	0.2%	207.5	482	80	0.3%	247.8	404	19.4%
Washington	128,052	328	1.0%	256.1	390	376	1.2%	293.6	341	14.6%
Wicomico	87,648	259	0.8%	295.5	338	262	0.8%	298.9	335	1.2%
Worcester	46,118	76	0.2%	164.8	607	67	0.2%	145.3	688	-11.8%
Corrections	--	615	1.9%	--	--	245	0.8%	--	--	--
Total	5,098,929	33,209	100.0%	651.3	154	31,845	100.0%	624.5	160	-4.1%

Table 4 – CD4 Test Results During October 1, 2020 through September 30, 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2021, by Jurisdiction of Current Residence, Reported through March 31, 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	106	96	90.6%	595	3.1%	9.4%	16.7%	70.8%
Anne Arundel	1,366	974	71.3%	640	6.4%	10.3%	16.5%	66.8%
Baltimore City	10,419	7,392	70.9%	604	8.5%	12.8%	16.2%	62.5%
Baltimore	3,764	2,672	71.0%	647	6.5%	10.1%	15.6%	67.7%
Calvert	141	112	79.4%	650	5.4%	13.4%	13.4%	67.9%
Caroline	66	52	78.8%	721	9.6%	11.5%	13.5%	65.4%
Carroll	163	120	73.6%	658	10.8%	9.2%	12.5%	67.5%
Cecil	159	93	58.5%	594	3.2%	12.9%	22.6%	61.3%
Charles	671	512	76.3%	667	9.2%	8.6%	15.0%	67.2%
Dorchester	159	115	72.3%	600	7.8%	16.5%	16.5%	59.1%
Frederick	510	368	72.2%	634	7.1%	10.1%	14.1%	68.8%
Garrett	15	13	86.7%	843	7.7%	0.0%	23.1%	69.2%
Harford	522	345	66.1%	632	7.0%	12.2%	15.1%	65.8%
Howard	730	564	77.3%	664	6.4%	9.6%	15.1%	69.0%
Kent	55	45	81.8%	573	13.3%	2.2%	15.6%	68.9%
Montgomery	3,679	2,550	69.3%	603	6.2%	12.3%	17.5%	64.0%
Prince George's	7,988	5,992	75.0%	638	6.9%	10.1%	16.2%	66.8%
Queen Anne's	53	43	81.1%	589	9.3%	20.9%	7.0%	62.8%
Saint Mary's	163	133	81.6%	628	9.8%	10.5%	13.5%	66.2%
Somerset	86	69	80.2%	616	10.1%	11.6%	10.1%	68.1%
Talbot	80	59	73.8%	556	15.3%	16.9%	6.8%	61.0%
Washington	376	284	75.5%	648	5.6%	8.8%	16.2%	69.4%
Wicomico	262	185	70.6%	545	10.3%	15.1%	17.3%	57.3%
Worcester	67	54	80.6%	630	5.6%	9.3%	9.3%	75.9%
Corrections	245	185	75.5%	666	4.3%	8.6%	13.0%	74.1%
Total	31,845	23,027	72.3%	624	7.3%	11.3%	16.1%	65.3%

Table 5 – Viral Load Test Results During October 1, 2020 through September 30, 2021 for People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2021, by Jurisdiction of Current Residence, Reported through March 31, 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	106	99	93.4%	96.0%	629
Anne Arundel	1,366	1,011	74.0%	91.6%	7,900
Baltimore City	10,419	7,876	75.6%	88.6%	10,400
Baltimore	3,764	2,842	75.5%	90.4%	10,350
Calvert	141	115	81.6%	93.9%	85,300
Caroline	66	54	81.8%	90.7%	30,300
Carroll	163	117	71.8%	88.0%	20,291
Cecil	159	92	57.9%	92.4%	680
Charles	671	492	73.3%	88.2%	15,377
Dorchester	159	123	77.4%	89.4%	10,810
Frederick	510	373	73.1%	93.8%	1,130
Garrett	15	12	80.0%	100.0%	--
Harford	522	363	69.5%	91.2%	16,950
Howard	730	580	79.5%	91.7%	7,675
Kent	55	44	80.0%	81.8%	91,486
Montgomery	3,679	2,475	67.3%	92.2%	6,650
Prince George's	7,988	5,812	72.8%	90.7%	7,290
Queen Anne's	53	43	81.1%	95.3%	5,931
Saint Mary's	163	133	81.6%	83.5%	31,081
Somerset	86	71	82.6%	87.3%	15,200
Talbot	80	65	81.3%	95.4%	3,780
Washington	376	281	74.7%	91.1%	23,600
Wicomico	262	190	72.5%	84.2%	16,975
Worcester	67	50	74.6%	86.0%	590
Corrections	245	188	76.7%	87.8%	609
Total	31,845	23,501	73.8%	90.1%	9,280