



Maryland HIV/AIDS Quarterly Update

Third Quarter 2020

Data reported through September 30, 2020
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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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. 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 only available for people that have been diagnosed with HIV by a health care provider, were residents of Maryland at the time of diagnosis or are current residents of Maryland as of March 31, 2020, are receiving medical care (often only at facilities in Maryland), and only includes information that has been reported to the health department.

Data presented were reported to the Maryland Department of Health through September 30, 2020. Reported new diagnoses and estimates of people living with diagnosed HIV are as of March 31, 2020.

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 note that data reported in the quarterly reports may not match data reported in the annual epidemiological profiles due to differences in reporting periods.

Please read all table titles and footnotes carefully to ensure a complete understanding of the displayed data.

New HIV Infections

The Centers for Disease Control and Prevention (CDC), using national surveillance data, estimates that the number of people living with undiagnosed HIV infection, among people living with HIV, is 13.8 percent in the United States.¹ Applying the same estimation method to Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 10.8 percent in 2018.

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 or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent.

Mortality

People are assumed to be alive unless reported as deceased to the Maryland Department of Health. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

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.

¹Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2014–2018. HIV Surveillance Supplemental Report 2020;25(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published May 2020. Accessed May 2020.

Geographic Distribution

Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Estimates describing the number of people living with diagnosed HIV use current residence. Current residence estimates 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

People living with diagnosed HIV who were reported to be residing in a state or federal prison will be described

for Maryland only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers.

Sources of Data

Information on HIV and AIDS diagnoses, including residence, vital status, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), as of September 30, 2020.

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 diagnosed 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).

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, 2020 and not reported to have died as of September 30, 2020.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of September 30, 2020.

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, 2019.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2019.

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, 2020 not reported to have died as of September 30, 2020.

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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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, 2019 through March 31, 2020, by Jurisdiction of Residence at Diagnosis, Reported through September 30, 2020

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	61,764	3	0.3%	4.9	3	0.6%	4.9
Anne Arundel	485,680	48	5.4%	9.9	19	4.1%	3.9
Baltimore City	504,269	199	22.6%	39.5	142	30.3%	28.2
Baltimore	698,716	111	12.6%	15.9	53	11.3%	7.6
Calvert	77,905	6	0.7%	7.7	3	0.6%	3.9
Caroline	27,787	1	0.1%	3.6	0	0.0%	0.0
Carroll	143,123	4	0.5%	2.8	6	1.3%	4.2
Cecil	86,690	6	0.7%	6.9	0	0.0%	0.0
Charles	136,026	31	3.5%	22.8	9	1.9%	6.6
Dorchester	27,165	2	0.2%	7.4	0	0.0%	0.0
Frederick	217,096	14	1.6%	6.4	4	0.9%	1.8
Garrett	25,324	0	0.0%	0.0	0	0.0%	0.0
Harford	215,720	10	1.1%	4.6	7	1.5%	3.2
Howard	270,649	22	2.5%	8.1	9	1.9%	3.3
Kent	17,295	2	0.2%	11.6	2	0.4%	11.6
Montgomery	877,406	121	13.7%	13.8	73	15.6%	8.3
Prince George's	761,035	268	30.4%	35.2	120	25.6%	15.8
Queen Anne's	42,995	2	0.2%	4.7	1	0.2%	2.3
Saint Mary's	94,126	4	0.5%	4.2	0	0.0%	0.0
Somerset	22,450	0	0.0%	0.0	0	0.0%	0.0
Talbot	32,407	0	0.0%	0.0	0	0.0%	0.0
Washington	127,813	8	0.9%	6.3	6	1.3%	4.7
Wicomico	87,334	19	2.2%	21.8	11	2.4%	12.6
Worcester	46,024	1	0.1%	2.2	0	0.0%	0.0
Corrections	--	0	0.0%	--	0	0.0%	--
Total	5,086,800	882	100.0%	17.6	468	100.0%	9.9

Table 2 – Reported HIV Diagnoses, Among People Aged 13+ During April 1, 2019 through March 31, 2020, Linked to Care, Late Diagnosis, First CD4 Test Result, and Mean Years from HIV Diagnosis by Jurisdiction of Residence at Diagnosis, Reported through September 30, 2020

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	48	83.3%	89.6%	27.1%	87.5%	371
Baltimore City	199	84.5%	86.9%	26.7%	85.0%	350
Baltimore	111	89.9%	94.1%	20.2%	95.0%	437
Calvert	6	***	***	***	***	***
Caroline	1	***	***	***	***	***
Carroll	4	***	***	***	***	***
Cecil	6	71.4%	71.4%	0.0%	71.4%	525
Charles	31	82.9%	91.4%	25.7%	97.1%	330
Dorchester	2	***	***	***	***	***
Frederick	14	58.3%	75.0%	***	66.7%	352
Garrett	0	--	--	--	--	--
Harford	10	80.0%	90.0%	***	90.0%	330
Howard	22	91.3%	95.7%	26.1%	95.7%	304
Kent	2	***	***	***	***	***
Montgomery	121	90.4%	94.8%	34.1%	94.8%	288
Prince George's	268	88.2%	91.3%	23.2%	92.0%	394
Queen Anne's	2	***	***	***	***	***
Saint Mary's	4	***	***	***	***	***
Somerset	0	--	--	--	--	--
Talbot	0	--	--	--	--	--
Washington	8	***	100.0%	***	100.0%	616
Wicomico	19	90.0%	90.0%	30.0%	90.0%	445
Worcester	1	***	***	***	***	***
Corrections	0	--	--	--	--	--
Total	882	86.9%	90.9%	25.4%	91.0%	374

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

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on March 31, 2020, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through September 30, 2020

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	61,764	90	0.3%	145.7	686	112	0.4%	181.3	551	24.4%
Anne Arundel	485,680	1,347	4.1%	277.3	361	1,388	4.4%	285.8	350	3.0%
Baltimore City	504,269	12,113	36.5%	2,402.1	42	10,876	34.3%	2,156.8	46	-10.2%
Baltimore	698,716	3,366	10.1%	481.7	208	3,531	11.1%	505.4	198	4.9%
Calvert	77,905	118	0.4%	151.5	660	132	0.4%	169.4	590	11.9%
Caroline	27,787	69	0.2%	248.3	403	67	0.2%	241.1	415	-2.9%
Carroll	143,123	154	0.5%	107.6	929	167	0.5%	116.7	857	8.4%
Cecil	86,690	124	0.4%	143.0	699	147	0.5%	169.6	590	18.5%
Charles	136,026	508	1.5%	373.5	268	629	2.0%	462.4	216	23.8%
Dorchester	27,165	131	0.4%	482.2	207	150	0.5%	552.2	181	14.5%
Frederick	217,096	376	1.1%	173.2	577	466	1.5%	214.7	466	23.9%
Garrett	25,324	10	0.0%	39.5	2,532	16	0.1%	63.2	1,583	60.0%
Harford	215,720	469	1.4%	217.4	460	521	1.6%	241.5	414	11.1%
Howard	270,649	620	1.9%	229.1	437	694	2.2%	256.4	390	11.9%
Kent	17,295	39	0.1%	225.5	443	49	0.2%	283.3	353	25.6%
Montgomery	877,406	4,150	12.5%	473.0	211	3,593	11.3%	409.5	244	-13.4%
Prince George's	761,035	7,830	23.6%	1,028.9	97	7,899	24.9%	1,037.9	96	0.9%
Queen Anne's	42,995	53	0.2%	123.3	811	53	0.2%	123.3	811	0.0%
Saint Mary's	94,126	141	0.4%	149.8	668	160	0.5%	170.0	588	13.5%
Somerset	22,450	74	0.2%	329.6	303	94	0.3%	418.7	239	27.0%
Talbot	32,407	66	0.2%	203.7	491	78	0.2%	240.7	415	18.2%
Washington	127,813	318	1.0%	248.8	402	357	1.1%	279.3	358	12.3%
Wicomico	87,334	255	0.8%	292.0	342	266	0.8%	304.6	328	4.3%
Worcester	46,024	76	0.2%	165.1	606	65	0.2%	141.2	708	-14.5%
Corrections	--	707	2.1%	--	--	210	0.7%	--	--	--
Total	5,086,800	33,204	100.0%	652.7	153	31,720	100.0%	623.6	160	-4.5%

Table 4 – CD4 Test Results During April 1, 2019 through March 31, 2020 for People Aged 13+ Living with Diagnosed HIV, Alive on March 31, 2020, by Jurisdiction of Current Residence, Reported through September 30, 2020

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	112	104	92.9%	641	5.8%	8.7%	15.4%	70.2%
Anne Arundel	1,388	1,049	75.6%	630	7.1%	12.0%	16.2%	64.7%
Baltimore City	10,876	8,153	75.0%	593	9.3%	12.9%	16.9%	60.9%
Baltimore	3,531	2,575	72.9%	641	6.8%	11.8%	13.6%	67.8%
Calvert	132	105	79.5%	638	6.7%	11.4%	18.1%	63.8%
Caroline	67	59	88.1%	685	1.7%	10.2%	11.9%	76.3%
Carroll	167	128	76.6%	667	9.4%	11.7%	15.6%	63.3%
Cecil	147	98	66.7%	616	8.2%	7.1%	18.4%	66.3%
Charles	629	479	76.2%	646	8.1%	11.7%	14.2%	66.0%
Dorchester	150	119	79.3%	645	7.6%	10.9%	17.6%	63.9%
Frederick	466	364	78.1%	621	4.4%	9.9%	15.1%	70.6%
Garrett	16	13	81.3%	812	0.0%	0.0%	23.1%	76.9%
Harford	521	373	71.6%	641	7.5%	12.9%	15.0%	64.6%
Howard	694	524	75.5%	642	6.5%	9.2%	15.5%	68.9%
Kent	49	41	83.7%	683	4.9%	9.8%	12.2%	73.2%
Montgomery	3,593	2,578	71.8%	600	7.0%	11.4%	17.5%	64.1%
Prince George’s	7,899	6,085	77.0%	619	7.1%	11.3%	16.3%	65.3%
Queen Anne’s	53	41	77.4%	749	9.8%	12.2%	12.2%	65.9%
Saint Mary’s	160	125	78.1%	592	5.6%	16.8%	18.4%	59.2%
Somerset	94	80	85.1%	602	5.0%	11.3%	18.8%	65.0%
Talbot	78	64	82.1%	513	10.9%	17.2%	20.3%	51.6%
Washington	357	279	78.2%	659	6.8%	10.8%	12.5%	69.9%
Wicomico	266	214	80.5%	569	10.7%	15.9%	17.8%	55.6%
Worcester	65	55	84.6%	658	5.5%	9.1%	18.2%	67.3%
Corrections	210	172	81.9%	650	2.3%	12.2%	17.4%	68.0%
Total	31,720	23,877	75.3%	614	7.8%	11.9%	16.3%	64.0%

Table 5 – Viral Load Test Results During April 1, 2019 through March 31, 2020 for People Aged 13+ Living with Diagnosed HIV, Alive on March 31, 2020, by Jurisdiction of Current Residence, Reported through September 30, 2020

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	112	104	92.9%	91.3%	39,571
Anne Arundel	1,388	1,071	77.2%	90.8%	20,500
Baltimore City	10,876	8,751	80.5%	86.7%	12,700
Baltimore	3,531	2,760	78.2%	89.8%	9,030
Calvert	132	106	80.3%	90.6%	4,990
Caroline	67	55	82.1%	94.5%	2,900
Carroll	167	134	80.2%	88.8%	7,160
Cecil	147	102	69.4%	82.4%	8,175
Charles	629	487	77.4%	90.6%	10,475
Dorchester	150	118	78.7%	91.5%	11,120
Frederick	466	365	78.3%	91.5%	5,020
Garrett	16	12	75.0%	100.0%	--
Harford	521	393	75.4%	90.1%	12,500
Howard	694	544	78.4%	89.9%	6,470
Kent	49	44	89.8%	81.8%	34,619
Montgomery	3,593	2,581	71.8%	91.5%	11,100
Prince George's	7,899	6,162	78.0%	88.8%	9,050
Queen Anne's	53	43	81.1%	88.4%	368,690
Saint Mary's	160	130	81.3%	86.2%	2,500
Somerset	94	82	87.2%	90.2%	3,785
Talbot	78	64	82.1%	90.6%	43,080
Washington	357	278	77.9%	89.9%	15,600
Wicomico	266	215	80.8%	88.8%	36,550
Worcester	65	52	80.0%	92.3%	119,000
Corrections	210	168	80.0%	90.5%	591
Total	31,720	24,821	78.3%	88.7%	10,500