2023

MARYLAND ANNUAL STI EPIDEMIOLOGICAL PROFILE

Data reported through

July 26, 2024

Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration

Maryland
DEPARTMENT OF HEALTH

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On the Web

https://health.maryland.gov/phpa/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx

Additional Information and Reporting Instructions

https://health.maryland.gov/phpa/OIDPCS/CSTIP/Pages/Reporting.aspx

Email: sti.datarequest@maryland.gov

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Section I – Technical Notes

Sexually Transmitted Infections (STI) Reporting

Maryland law requires that a person diagnosed with gonorrhea, chlamydia, or syphilis be reported by name to MDH. As per the reporting requirements specified in the Code of Maryland Regulations (COMAR) 10.06.01.03, laboratory directors and healthcare providers are required to report all diagnostic STI-related test results. Health care providers also must report treatment administered or prescribed for chlamydia, gonorrhea, and syphilis.

The Code of Maryland Regulations (COMAR) governing laboratory and provider reporting was most recently amended in 2020. The amended regulation now requires laboratories to report laboratory confirmed syphilis and suspected syphilis as indicated by: (a) Any treponemal or non-treponemal results that are qualitative or quantitative, if the results are: (i) Positive; (ii) Reactive; or (iii) Inconclusive; and (b) Any negative or non-reactive results associated with the positive, reactive, or inconclusive results.

Data Specifications

Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are collected on all people diagnosed with chlamydia, gonorrhea, or syphilis who were residents of the state of Maryland. Data are presented for people who were Maryland residents at the time of their diagnosis in 2023. Data presented were reported to the MDH through July 26, 2024.

This report presents data with at least a six-month reporting delay. This lag allows for time to report case and laboratory data and to complete investigations.

Please read all table titles and footnotes carefully to ensure a complete understanding of the displayed data. A glossary of terms is also available at the end of this report.

COVID-19 and STI Surveillance Data

Data for 2020 and 2021 should be interpreted with caution due to the impact of the Coronavirus Disease 2019 (COVID-19) pandemic on access to STI testing and related services. Because STIs often do not show symptoms, and screening is necessary for timely diagnosis and treatment, changes in access to sexual health care, as well as disruptions in public health services, can affect the number of infections diagnosed and reported. Reduced screening during the pandemic may have resulted in undiagnosed infections and those with an STI may have had their infection longer providing more opportunities to transmit infection to their partners. Trends should be interpreted with caution. For more information, please see CDC's Impact of COVID-19 on STIs.

Recurring Infections

This report describes diagnoses of STIs. Gonorrhea, chlamydia, and syphilis are easily treatable, and it is possible for people to acquire an infection multiple times. This report includes initial and recurring infections.

Geographic Distribution

Not all address data has been geocoded. Geocoding is the process of assigning geographic identifiers to map features and data records. Addresses are standard data elements 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.

People experiencing homelessness are reported as living in the city or town where the shelter or care facility reporting the diagnosis is located.

Residents of Correctional Facilities

STI diagnoses among people reported to be residing in correctional facilities are presented as residing at their last known home address, if available, or in the jurisdiction where the facility of diagnosis is located.

Race and Ethnicity

The completeness of reporting for race and ethnicity is variable in surveillance data. Definitions of race and ethnicity categories may vary across reporting sources and some reporting sources do not collect or have complete data on race and ethnicity. In this report, Hispanic or Latino people can be of any race.

Sources of Data

Information on STI diagnoses for 2022 onwards, including residence, age, race and ethnicity, and assigned sex at birth, are from Maryland's installation of the National Electronic Disease Surveillance System (NEDSS) Base System (NBS), as of July 26, 2024.

Data prior to 2022 are from Maryland's installation of the Patient Reporting Investigation Surveillance Manager (PRISM), the Maryland STI surveillance database from 2015-2021. Due to a Network Security Incident in 2021, only data at the state-level is available for 2021.

Data on live births was obtained from Maryland Department of Health's Vital Statistics Administration 2022 Annual Vital Statistics Report and the Centers for Disease Control and Prevention's WONDER Online Database.

Population data by sex, age, and race and ethnicity are from the July 1, 2023 United States Census Estimates. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple races and Non-Hispanic another race from the Census were combined into one group.

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

Data are suppressed to protect the confidentiality of people diagnosed with STIs. Data are suppressed when describing a demographic group or geographic area (e.g., jurisdiction) with a population less than 1,000 people. If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

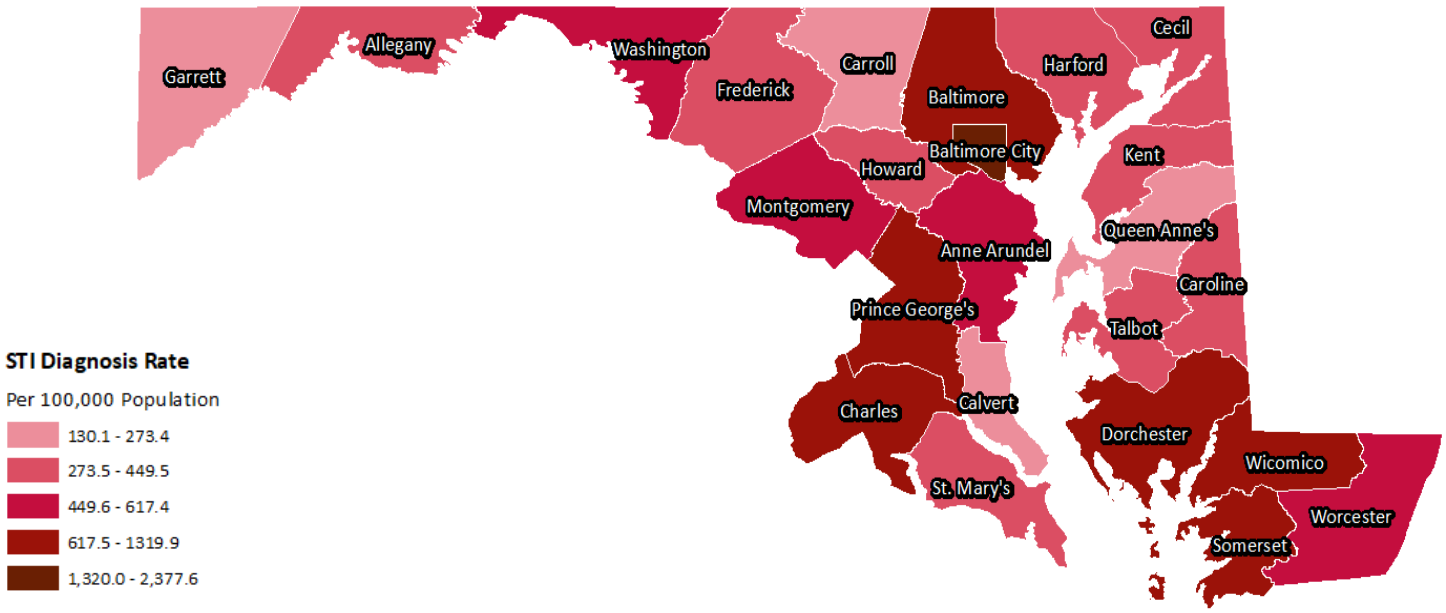
Additional Resources

- STI Case Definitions
  A surveillance case definition is a set of uniform criteria used to define a disease for public health surveillance. Surveillance case definitions enable public health officials to classify and count diagnoses consistently across reporting jurisdictions. Surveillance case definitions may differ from clinical definitions and are not intended to be used by healthcare providers for making a clinical diagnosis or determining how to meet an individual patient's health needs.
  - Chlamydia
  - Gonorrhea
  - Syphilis
  - Congenital Syphilis
- STI Treatment Guidelines
- Maryland STI Reporting Guidelines
- HIV Epidemiology in Maryland

Section II – STI Diagnoses Overview

Surveillance is key to understanding the extent of sexually transmitted infections (STI) in Maryland and in people most affected by STIs. This report provides updated data on chlamydia, gonorrhea, and syphilis, including congenital syphilis, in Maryland.

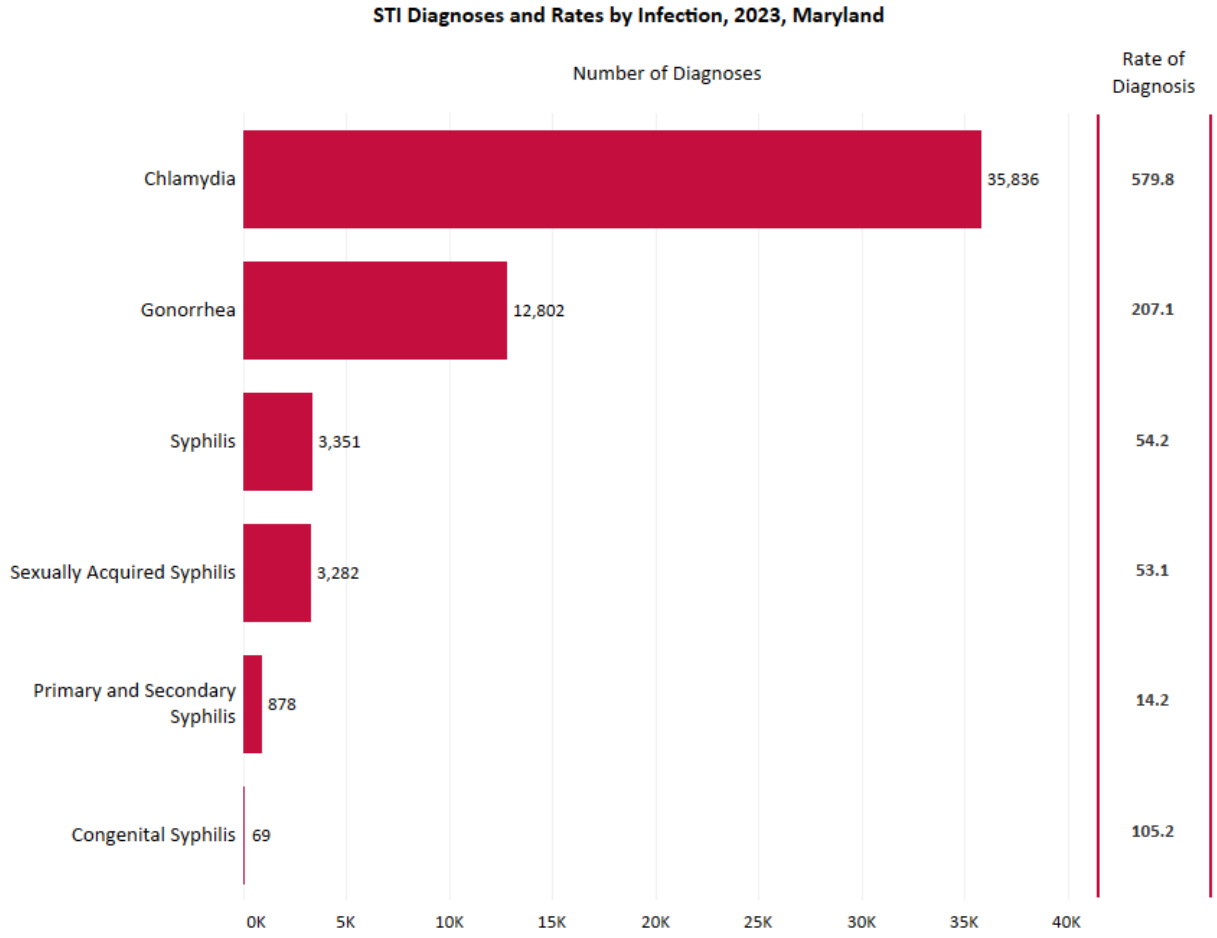
Maryland STI Diagnosis Rates by Jurisdiction, 2023



State Rate: 824.9 per 100,000
STI rates include Chlamydia, Gonorrhea, and Sexually Acquired Syphilis.

- The rate of STI diagnoses in Maryland is **824.9 per 100,000.**
  Jurisdictions with the highest rate of STI diagnoses in Maryland include:
  - Baltimore City: 2,244.0 per 100,000
  - Dorchester County: 1,417.3 per 100,000
  - Wicomico County: 1,191.8 per 100,000
  - Prince George's County: 1,153.5 per 100,000
  - Baltimore County: 926.8 per 100,000

Figure 1 – Chlamydia, Gonorrhea, Total Syphilis, Sexually Acquired Syphilis, Primary and Secondary Syphilis, and Congenital Syphilis Diagnoses during 2023, Reported through July 26, 2024



Infection	2023 Diagnoses				
	Number				
	Total	2022-2023 % Change	2018-2023 Estimated Annual % Change		
		Estimate	Estimate	95% Confidence Interval	
				Lower	Upper
Chlamydia	35,836	14.7%	-1.7	-1.9	-1.4
Gonorrhea	12,802	14.7%	2.5	2.0	2.9
Syphilis	3,351	19.8%	4.0	3.1	4.9
Sexually Acquired Syphilis	3,282	19.2%	3.8	2.9	4.7
Primary and Secondary Syphilis	878	12.4%	1.1	-0.6	2.7
Congenital Syphilis	69	53.3%	19.5	10.5	29.1
Total STI Diagnoses	51,989	13.1%	-0.4	-0.6	-0.2

Note. Congenital syphilis rates are per 100,000 live births. All other rates are per 100,00 population.

Table 1 – Chlamydia, Gonorrhea, Primary and Secondary Syphilis, and Congenital Syphilis Diagnoses during 2023 by Jurisdiction of Residence at Diagnosis, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Chlamydia			Gonorrhea			Syphilis					
							Primary and Secondary			Congenital		
	No.	% of Total	Rate per 100,000 Population	No.	% of Total	Rate per 100,000 Population	No.	% of Total	Rate per 100,000 Population	No.	% of Total	Rate per 100,000 Live Births*
Allegany	217	0.6%	322.6	40	0.3%	59.5	2	0.2%	3.0	0	0.0%	0.0
Anne Arundel	2,235	6.2%	375.9	625	4.9%	105.1	65	7.4%	10.9	3	4.3%	43.4
Baltimore City	8,437	23.5%	1,492.6	4,112	32.1%	727.5	283	32.2%	50.1	27	38.6%	372.9
Baltimore	5,223	14.6%	618.3	1,716	13.4%	203.1	164	18.7%	19.4	8	11.4%	86.0
Calvert	197	0.5%	208.0	55	0.4%	58.1	3	0.3%	3.2	0	0.0%	0.0
Caroline	121	0.3%	360.2	27	0.2%	80.4	2	0.2%	6.0	0	0.0%	0.0
Carroll	256	0.7%	144.9	44	0.3%	24.9	7	0.8%	4.0	2	2.9%	111.5
Cecil	302	0.8%	285.8	89	0.7%	84.2	5	0.6%	4.7	1	1.4%	88.4
Charles	1,067	3.0%	620.4	344	2.7%	200.0	19	2.2%	11.0	1	1.4%	54.3
Dorchester	312	0.9%	948.9	112	0.9%	340.6	1	0.1%	3.0	0	0.0%	0.0
Frederick	867	2.4%	295.5	149	1.2%	50.8	8	0.9%	2.7	1	1.4%	32.2
Garrett	30	0.1%	105.5	7	0.1%	24.6	0	0.0%	0.0	0	0.0%	0.0
Harford	876	2.4%	331.0	243	1.9%	91.8	24	2.7%	9.1	3	4.3%	113.3
Howard	1,107	3.1%	329.5	313	2.4%	93.2	24	2.7%	7.1	4	5.7%	125.8
Kent	70	0.2%	362.6	12	0.1%	62.2	0	0.0%	0.0	0	0.0%	0.0
Montgomery	4,462	12.5%	421.6	1,231	9.6%	116.3	65	7.4%	6.1	5	7.1%	42.6
Prince George's	7,632	21.3%	805.5	2,830	22.1%	298.7	147	16.7%	15.5	11	15.7%	99.9
Queen Anne's	94	0.3%	179.0	15	0.1%	28.6	4	0.5%	7.6	0	0.0%	0.0
Saint Mary's	329	0.9%	285.4	102	0.8%	88.5	1	0.1%	0.9	0	0.0%	0.0
Somerset	144	0.4%	578.1	58	0.5%	232.8	3	0.3%	12.0	0	0.0%	0.0
Talbot	117	0.3%	309.3	24	0.2%	63.5	0	0.0%	0.0	0	0.0%	0.0
Washington	677	1.9%	434.5	235	1.8%	150.8	26	3.0%	16.7	1	2.9%	61.6
Wicomico	855	2.4%	815.8	344	2.7%	328.2	17	1.9%	16.2	2	2.9%	142.1
Worcester	190	0.5%	350.7	66	0.5%	121.8	6	0.7%	11.1	0	0.0%	0.0
Unknown	19	0.1%	--	9	0.1%	--	2	0.2%	--	0	0.0%	--
Total	35,836	100.0%	579.8	12,802	100.0%	207.1	878	100.0%	14.2	69	100.0%	105.2

Note. *Live births by jurisdiction are for 2022. Live births by jurisdiction for 2023 have not been released yet.

Section III – Chlamydia

Chlamydia is a sexually transmitted infection caused by the bacterium Chlamydia trachomatis. Although chlamydia is easy to diagnose and treat, it usually produces no symptoms. Therefore, many infections go undetected, and the number of reported diagnoses is likely a significant underestimate of the actual number of people with chlamydia. If individuals with chlamydia are not screened, chlamydia infections go undiagnosed, unreported, and untreated, furthering the spread of infection within the community.

In 2023, a total of 35,836 chlamydia diagnoses were reported among Maryland residents, making it the most common notifiable sexually transmitted infection in Maryland. The rate of diagnosis was 579.8 diagnoses per 100,000 people.

In 2023, people most affected by chlamydia include:

Geographic Region

The highest number (8,437), proportion (23.5%), and rate (1,492.6) of chlamydia diagnoses were among **Baltimore City** residents.

Assigned Sex at Birth

People assigned **female sex at birth** accounted for the highest number (22,296), proportion (62.2%), and rate (702.0) of chlamydia diagnoses.

Race and Ethnicity

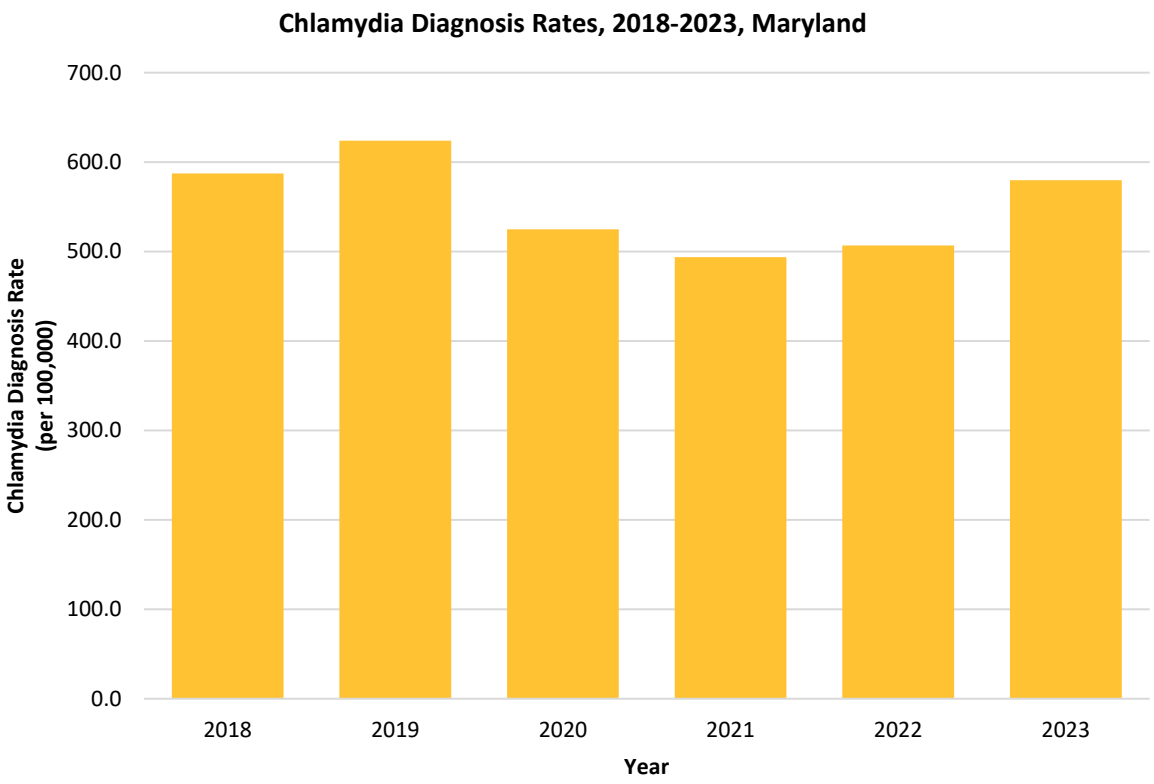
Non-Hispanic Black people accounted for the highest number (15,242) and proportion (42.8%) of chlamydia diagnoses. The highest rate of chlamydia diagnoses was among Non-Hispanic **American Indian or Alaska Native people** (901.6).

Age

People **ages 15-24** accounted for the highest number (21,795), proportion (60.9%), and rate (2,847.9) of chlamydia diagnoses.

Section 3a – Trends in Chlamydia Diagnoses, 2018-2023, Maryland

Figure 2 – Trends in Chlamydia Diagnoses, 2018-2023, Reported through July 26, 2024



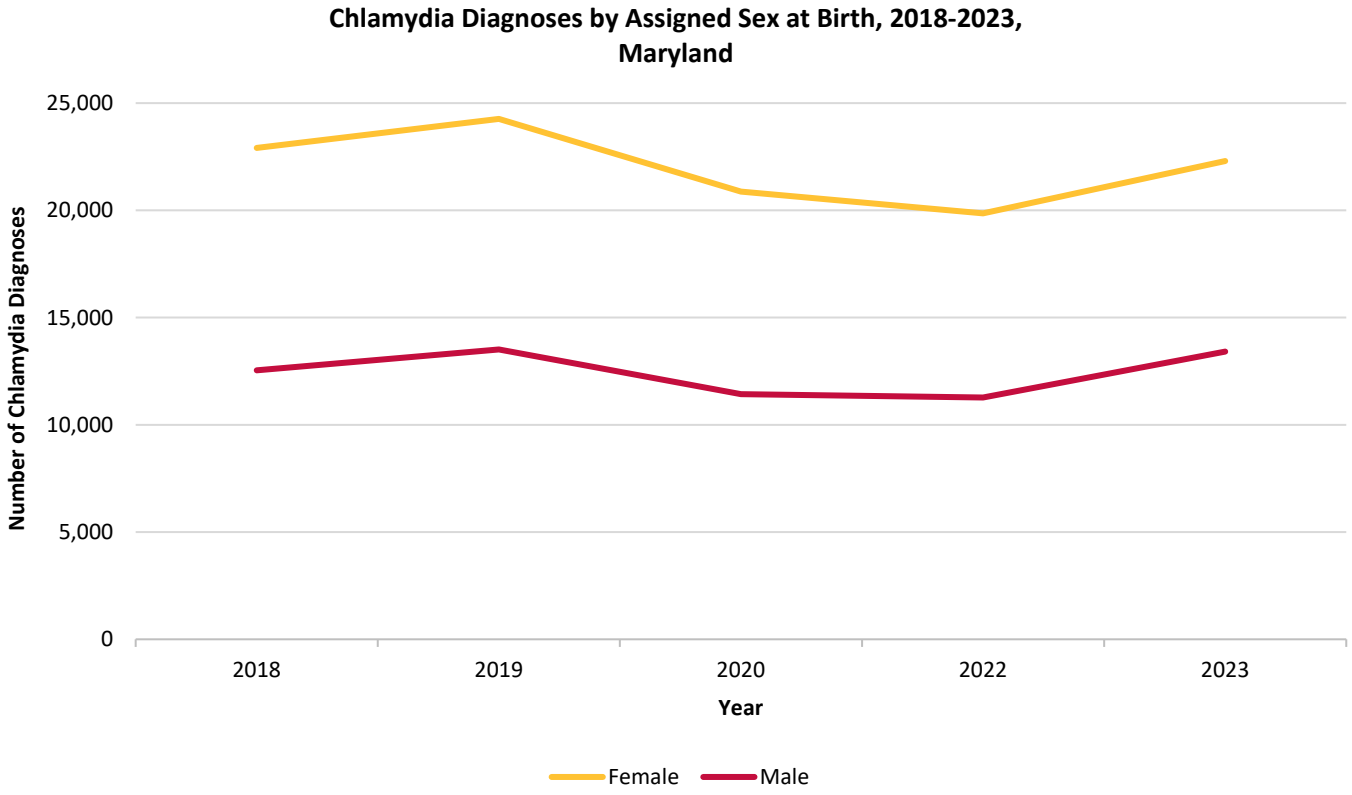
Year of Diagnosis	Population	Chlamydia Diagnoses	
		Number	Rate
2018	6,042,153	35,482	587.2
2019	6,054,954	37,779	623.9
2020	6,173,689	32,398	524.8
2021	6,175,045	30,484	493.7
2022	6,163,981	31,236	506.8
2023	6,180,253	35,836	579.8

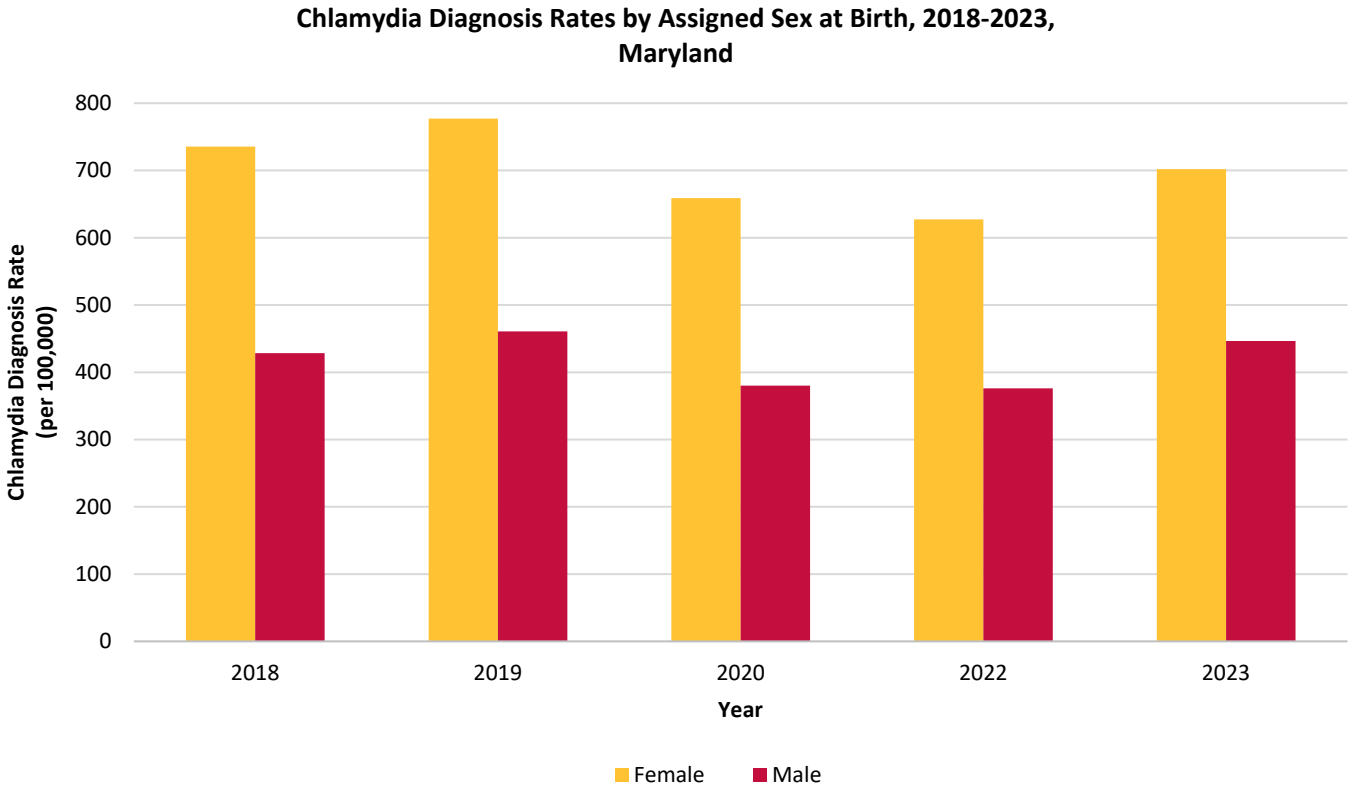
Table 2 – Trends in Chlamydia Diagnoses by Jurisdiction of Residence at Diagnosis, 2018-2023, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Chlamydia Diagnoses											
	2018		2019		2020		2021		2022		2023	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegany	242	341.0	263	372.9	234	344.3	--	--	198	294.4	217	322.6
Anne Arundel	2,316	402.3	2,710	467.3	2,155	365.8	--	--	1,896	319.5	2,235	375.9
Baltimore City	8,013	1,328.3	8,602	1,446.7	7,014	1,202.8	--	--	8,134	1,429.3	8,437	1,492.6
Baltimore	4,463	538.7	4,879	588.9	4,411	516.9	--	--	4,095	484.1	5,223	618.3
Calvert	269	292.0	295	318.4	291	313.2	--	--	211	223.1	197	208.0
Caroline	83	248.9	113	337.2	128	384.7	--	--	129	385.9	121	360.2
Carroll	407	241.7	327	193.8	309	178.7	--	--	272	155.0	256	144.9
Cecil	336	326.8	372	360.8	329	317.0	--	--	332	316.6	302	285.8
Charles	1,103	681.4	1,138	695.0	983	589.5	--	--	831	488.5	1,067	620.4
Dorchester	206	645.9	216	677.9	234	719.3	--	--	218	669.1	312	948.9
Frederick	844	330.1	820	314.6	779	285.6	--	--	797	277.2	867	295.5
Garrett	38	130.1	57	196.2	54	187.5	--	--	33	115.4	30	105.5
Harford	973	383.2	1,041	407.3	914	349.9	--	--	880	333.6	876	331.0
Howard	1,170	362.3	1,200	368.2	1,071	321.8	--	--	969	288.9	1,107	329.5
Kent	73	375.0	69	355.2	42	219.7	--	--	28	145.1	70	362.6
Montgomery	4,410	420.5	4,699	447.0	3,814	359.5	--	--	3,564	338.4	4,462	421.6
Prince George's	8,013	879.2	8,262	906.4	6,974	722.4	--	--	6,306	665.9	7,632	805.5
Queen Anne's	124	246.6	135	266.9	140	279.8	--	--	87	168.2	94	179.0
Saint Mary's	504	446.2	511	449.2	412	361.4	--	--	403	351.1	329	285.4
Somerset	187	729.4	184	718.5	170	692.2	--	--	136	552.7	144	578.1
Talbot	103	278.0	119	320.0	124	330.8	--	--	121	320.0	117	309.3
Washington	573	380.2	636	421.0	709	458.3	--	--	671	432.2	677	434.5
Wicomico	835	807.6	906	871.1	898	867.1	--	--	729	697.7	855	815.8
Worcester	197	379.3	225	430.5	209	397.9	--	--	185	343.0	190	350.7
Unknown	0	--	0	--	0	--	--	--	11	--	19	--
Total	35,482	587.2	37,779	623.9	32,398	524.8	30,484	493.7	31,236	506.8	35,836	579.8

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 3 – Trends in Chlamydia Diagnoses by Assigned Sex at Birth, 2018-2023, Reported through July 26, 2024



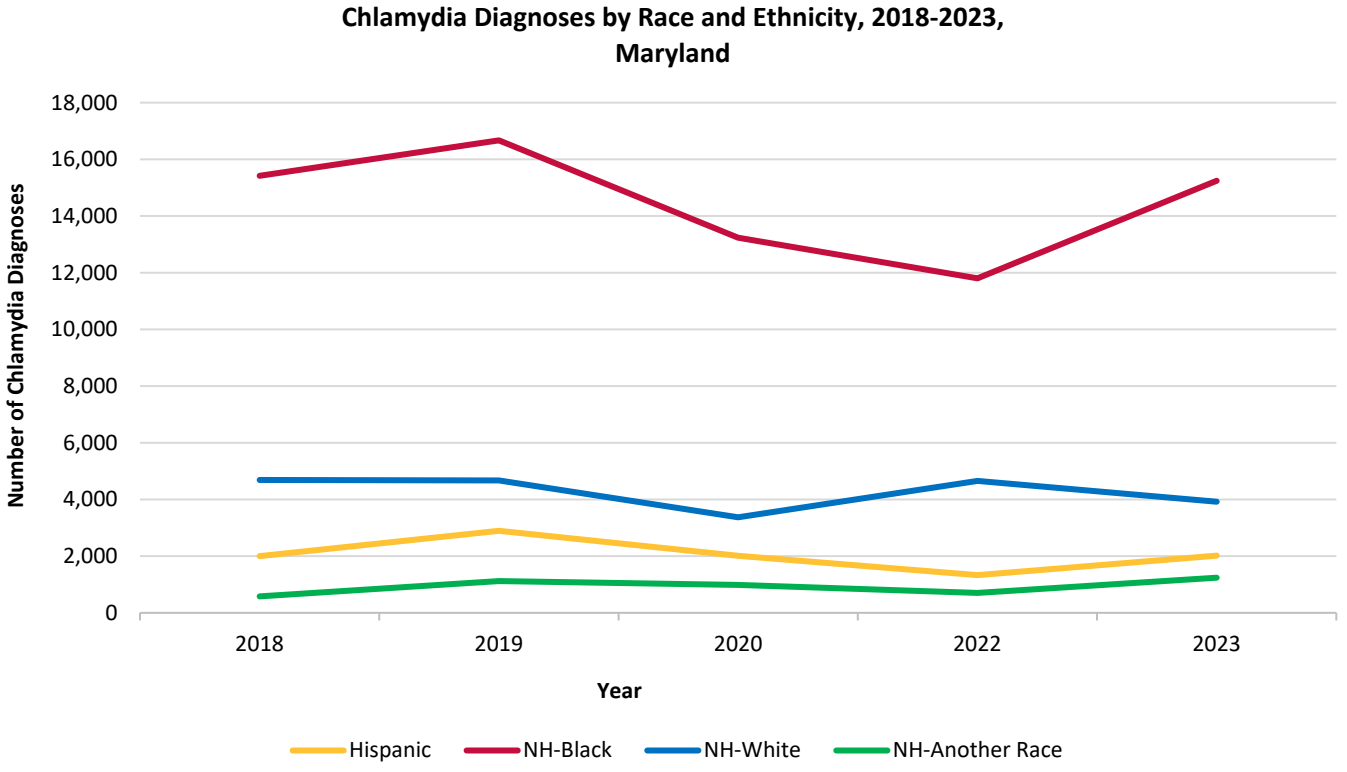


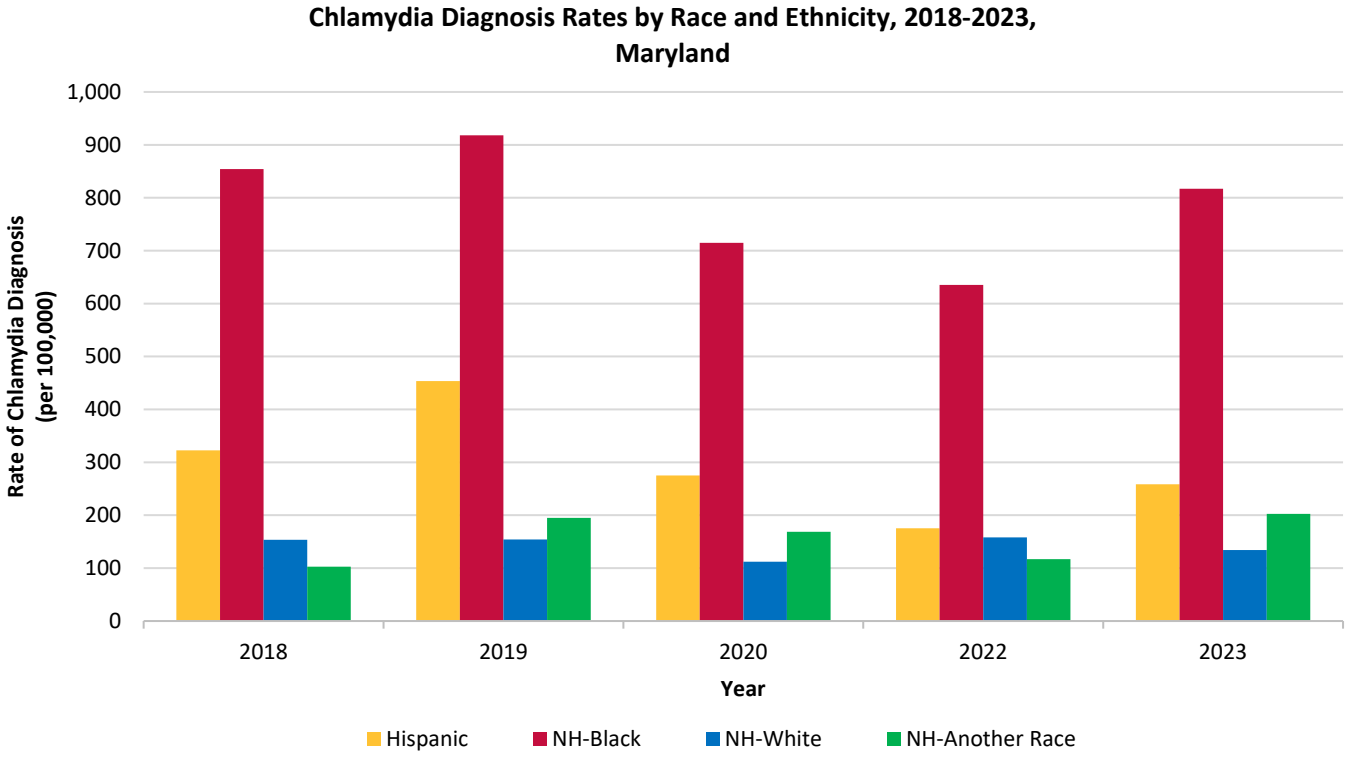
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Chlamydia Diagnoses			Assigned Sex at Birth		
				Female	Male	Unknown
2018	35,482	Population		3,115,060	2,927,093	--
		Chlamydia Diagnoses	Number	22,912	12,539	31
			Percent	64.6%	35.3%	0.1%
			Rate	735.5	428.4	--
2019	37,779	Population		3,122,480	2,932,474	--
		Chlamydia Diagnoses	Number	24,264	13,514	1
			Percent	64.2%	35.8%	0.0%
			Rate	777.1	460.8	--
2020	32,398	Population		3,168,085	3,005,604	--
		Chlamydia Diagnoses	Number	20,876	11,427	95
			Percent	64.4%	35.3%	0.3%
			Rate	658.9	380.2	--
2021	30,484	Population		3,170,013	3,005,032	--
		Chlamydia Diagnoses	Number	--	--	--
			Percent	--	--	--
			Rate	--	--	--
2022	31,236	Population		3,166,110	2,997,871	--
		Chlamydia Diagnoses	Number	19,860	11,274	102
			Percent	63.6%	36.1%	0.3%
			Rate	627.3	376.1	--
2023	35,836	Population		3,175,850	3,004,403	--
		Chlamydia Diagnoses	Number	22,296	13,417	123
			Percent	62.2%	37.4%	0.3%
			Rate	702.0	446.6	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 4 – Trends in Chlamydia Diagnoses by Race and Ethnicity, 2018-2023, Reported through July 26, 2024



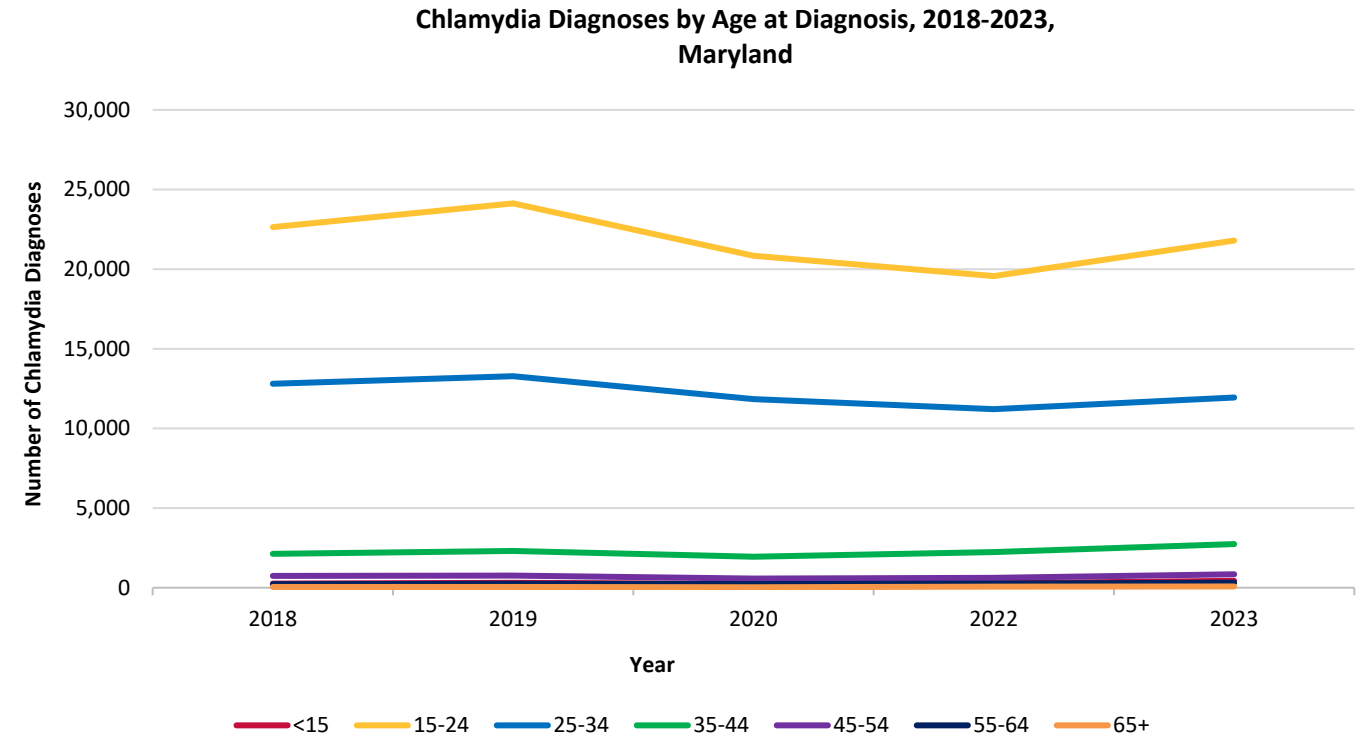


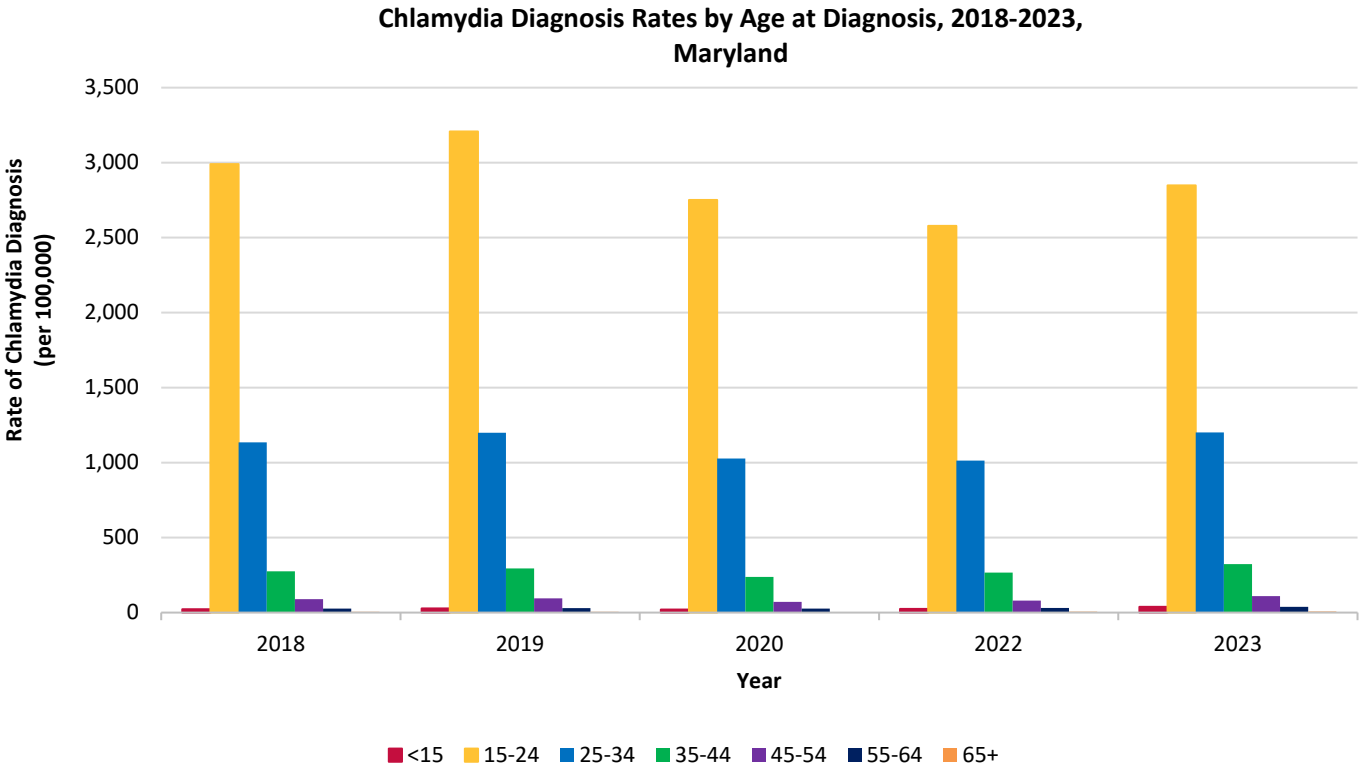
Non-Hispanic Asian, Non-Hispanic American Indian or Alaska Native, Non-Hispanic Native Hawaiian or Another Pacific Islander, and Non-Hispanic Multiracial or Another Race are combined in the above figures.

Year of Diagnosis	Number of Chlamydia Diagnoses			Race and Ethnicity							
				Hispanic	Non-Hispanic American Indian or Alaska Native	Non-Hispanic Asian	Non-Hispanic Black	Non-Hispanic Multiracial or Another Race or Ethnicity	Non-Hispanic Native Hawaiian or Another Pacific Islander	Non-Hispanic White	Unknown
2018	35,482	Population		620,598	14,656	397,624	1,805,077	149,790	2,951	3,051,457	--
		Chlamydia Diagnoses	Number	2,002	63	326	15,421	181	11	4,688	12,790
			Percent	5.6%	0.2%	0.9%	43.5%	0.5%	0.0%	13.2%	36.0%
			Rate	322.6	429.9	82.0	854.3	120.8	372.8	153.6	--
2019	37,779	Population		638,293	14,675	402,888	1,816,071	153,138	2,944	3,026,945	--
		Chlamydia Diagnoses	Number	2,894	69	445	16,670	571	33	4,669	12,428
			Percent	7.7%	0.2%	1.2%	44.1%	1.5%	0.1%	12.4%	32.9%
			Rate	453.4	470.2	110.5	917.9	372.9	1,120.9	154.2	--
2020	32,398	Population		731,359	14,711	409,473	1,851,700	157,214	2,996	3,006,236	--
		Chlamydia Diagnoses	Number	2,011	42	258	13,235	665	20	3,371	12,796
			Percent	6.2%	0.1%	0.8%	40.9%	2.1%	0.1%	10.4%	39.5%
			Rate	275.0	285.5	63.0	714.7	423.0	667.6	112.1	--
2021	30,484	Population		743,580	14,582	414,577	1,856,924	160,336	3,004	2,982,042	--
		Chlamydia Diagnoses	Number	--	--	--	--	--	--	--	--
			Percent	--	--	--	--	--	--	--	--
			Rate	--	--	--	--	--	--	--	--
2022	31,236	Population		759,452	14,465	419,536	1,857,381	163,656	3,012	2,946,479	--
		Chlamydia Diagnoses	Number	1,331	196	485	11,802	0	21	4,657	12,744
			Percent	4.3%	0.6%	1.6%	37.8%	0.0%	0.1%	14.9%	40.8%
			Rate	175.3	1,355.0	115.6	635.4	0.0	697.2	158.1	--
2023	35,836	Population		781,273	14,419	427,218	1,865,398	167,535	3,040	2,921,370	--
		Chlamydia Diagnoses	Number	2,020	130	315	15,242	795	0	3,921	13,413
			Percent	5.6%	0.4%	0.9%	42.5%	2.2%	0.0%	10.9%	37.4%
			Rate	258.6	901.6	73.7	817.1	474.5	0.0	134.2	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 5 – Trends in Chlamydia Diagnoses by Age at Diagnosis, 2018-2023, Reported through July 26, 2024





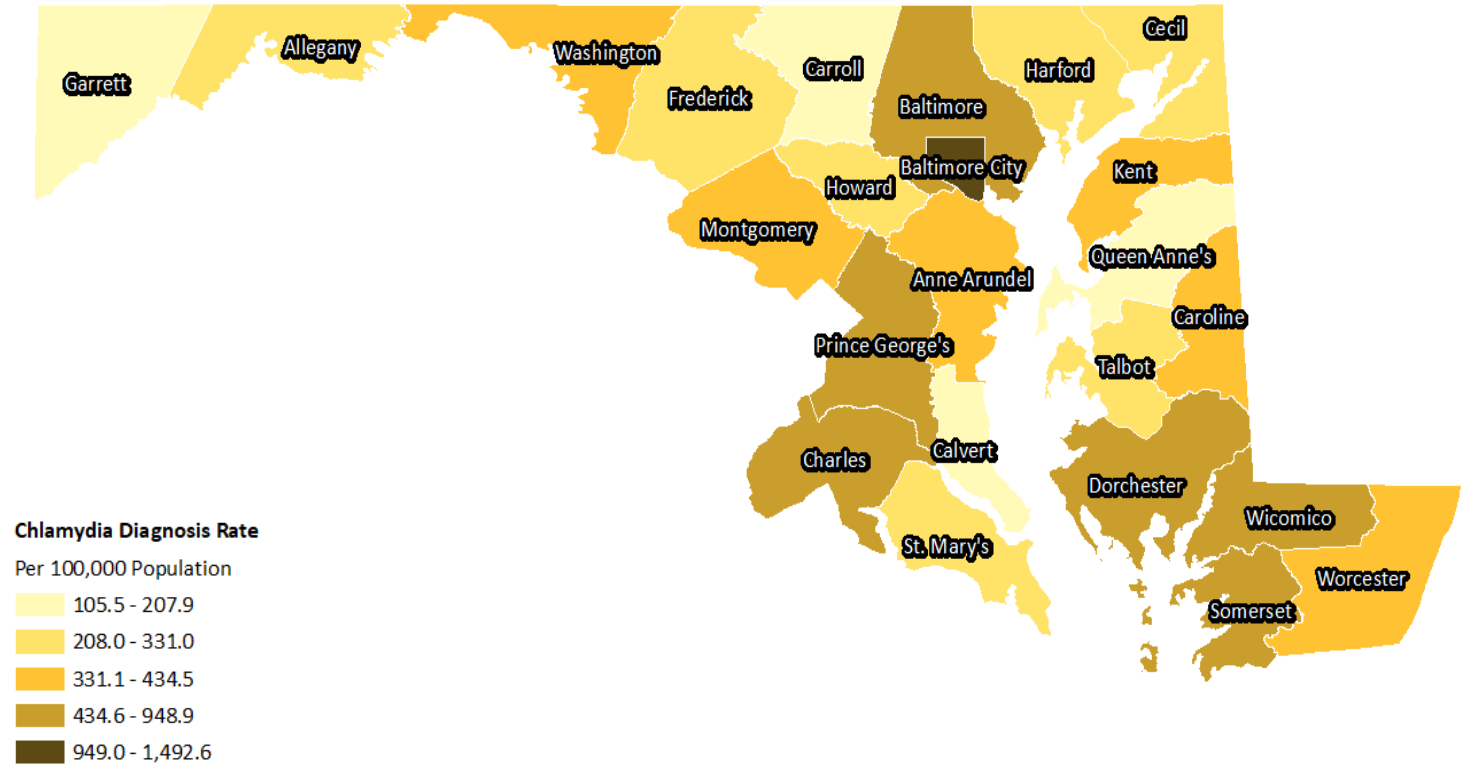
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Chlamydia Diagnoses			Age at Diagnosis										
				<15	15-19	20-24	25-29	30-34	35-39	40-44	45-54	55-64	65+	Unknown
2018	35,482	Population		1,114,857	381,315	375,877	417,022	416,303	407,285	366,192	818,963	812,830	931,509	--
		Chlamydia Diagnoses	Number	253	9,837	12,805	6,515	2,945	1,390	737	737	218	45	0
			Percent	0.7%	27.7%	36.1%	18.4%	8.3%	3.9%	2.1%	2.1%	0.6%	0.1%	0.0%
			Rate	22.7	2,579.8	3,406.7	1,562.3	707.4	341.3	201.3	90.0	26.8	4.8	--
2019	37,779	Population		1,112,990	380,590	371,722	413,011	418,662	411,204	371,921	795,426	819,177	960,251	--
		Chlamydia Diagnoses	Number	310	10,852	13,279	6,707	3,261	1,565	742	758	248	52	5
			Percent	0.8%	28.7%	35.1%	17.8%	8.6%	4.1%	2.0%	2.0%	0.7%	0.1%	0.0%
			Rate	27.9	2,851.4	3,572.3	1,623.9	778.9	380.6	199.5	95.3	30.3	5.4	--
2020	32,398	Population		1,150,967	389,957	367,650	402,219	428,307	426,014	393,335	801,369	840,371	973,500	--
		Chlamydia Diagnoses	Number	234	9,005	11,840	5,653	2,882	1,308	637	574	223	28	14
			Percent	0.7%	27.8%	36.5%	17.4%	8.9%	4.0%	2.0%	1.8%	0.7%	0.1%	0.0%
			Rate	20.3	2,309.2	3,220.5	1,405.5	672.9	307.0	161.9	71.6	26.5	2.9	--
2021	30,484	Population		1,136,702	391,294	369,420	394,841	428,803	427,555	403,208	785,163	836,690	1,001,369	--
		Chlamydia Diagnoses	Number	--	--	--	--	--	--	--	--	--	--	--
			Percent	--	--	--	--	--	--	--	--	--	--	--
			Rate	--	--	--	--	--	--	--	--	--	--	--
2022	31,236	Population		1,124,972	392,978	366,027	384,556	425,294	427,922	410,565	773,669	826,328	1,031,670	--
		Chlamydia Diagnoses	Number	278	8,356	11,210	5,215	2,995	1,507	729	620	256	70	0
			Percent	0.9%	26.8%	35.9%	16.7%	9.6%	4.8%	2.3%	2.0%	0.8%	0.2%	0.0%
			Rate	24.7	2,126.3	3,062.6	1,356.1	704.2	352.2	177.6	80.1	31.0	6.8	--
2023	35,836	Population		1,116,212	398,626	366,688	377,782	422,664	429,568	418,024	767,120	817,185	1,066,384	--
		Chlamydia Diagnoses	Number	431	9,849	11,946	6,094	3,516	1,819	920	843	316	77	25
			Percent	1.2%	27.5%	33.3%	17.0%	9.8%	5.1%	2.6%	2.4%	0.9%	0.2%	0.1%
			Rate	38.6	2,470.7	3,257.8	1,613.1	831.9	423.4	220.1	109.9	38.7	7.2	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Section 3b – Chlamydia Diagnoses, 2023, Maryland

Chlamydia Diagnosis Rates by Jurisdiction, 2023



State Rate: 579.8 per 100,000

- The rate of chlamydia diagnoses in Maryland is **579.8 per 100,000.**
  Jurisdictions with the highest rate of chlamydia diagnoses in Maryland include:
  - Baltimore City: 1,492.6 per 100,000
  - Dorchester County: 948.9 per 100,000
  - Wicomico County: 815.8 per 100,000
  - Prince George's County: 805.5 per 100,000
  - Charles County: 620.4 per 100,000

Table 3 – Chlamydia Diagnoses during 2023 by Jurisdiction of Residence at Diagnosis, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Chlamydia Diagnoses			
	Population	No.	% of Total	Rate
Allegany	67,273	217	0.6%	322.6
Anne Arundel	594,582	2,235	6.2%	375.9
Baltimore City	565,239	8,437	23.5%	1,492.6
Baltimore	844,703	5,223	14.6%	618.3
Calvert	94,728	197	0.6%	208.0
Caroline	33,593	121	0.3%	360.2
Carroll	176,639	256	0.7%	144.9
Cecil	105,672	302	0.8%	285.8
Charles	171,973	1,067	3.0%	620.4
Dorchester	32,879	312	0.9%	948.9
Frederick	293,391	867	2.4%	295.5
Garrett	28,423	30	0.1%	105.5
Harford	264,644	876	2.4%	331.0
Howard	336,001	1,107	3.1%	329.5
Kent	19,303	70	0.2%	362.6
Montgomery	1,058,474	4,462	12.5%	421.6
Prince George's	947,430	7,632	21.3%	805.5
Queen Anne's	52,508	94	0.3%	179.0
Saint Mary's	115,281	329	0.9%	285.4
Somerset	24,910	144	0.4%	578.1
Talbot	37,823	117	0.3%	309.3
Washington	155,813	677	1.9%	434.5
Wicomico	104,800	855	2.4%	815.8
Worcester	54,171	190	0.5%	350.7
Unknown	--	19	0.1%	--
Total	6,180,253	35,836	100.0%	579.8

Table 4 – Chlamydia Diagnoses during 2023 by Age at Diagnosis, Assigned Sex at Birth, and Race and Ethnicity, Reported through July 26, 2024

Demographic Characteristics	Population	Chlamydia Diagnoses		
		No.	% of Total	Rate
Age at Diagnosis				
<15	1,116,212	431	1.2%	38.6
15-19	398,626	9,849	27.5%	2,470.7
20-24	366,688	11,946	33.4%	3,257.8
25-29	377,782	6,094	17.0%	1,613.1
30-34	422,664	3,516	9.8%	831.9
35-39	429,568	1,819	5.1%	423.4
40-44	418,024	920	2.6%	220.1
45-54	767,120	843	2.4%	109.9
55-64	817,185	316	0.9%	38.7
65+	1,066,384	77	0.2%	7.2
Unknown	--	25	0.1%	--
Assigned Sex at Birth				
Female	3,175,850	22,296	62.2%	702.0
Male	3,004,403	13,417	37.4%	446.6
Unknown	--	123	0.3%	--
Race and Ethnicity				
Hispanic	781,273	2,020	5.6%	258.6
Non-Hispanic	5,398,980	20,403	56.9%	377.9
American Indian or Alaska Native, only	14,419	130	0.4%	901.6
Asian, only	427,218	315	0.9%	73.7
Black, only	1,865,398	15,242	42.5%	817.1
Multiracial or Another Race	167,535	795	2.2%	474.5
Native Hawaiian or Another Pacific Islander, only	3,040	0	0.0%	0.0
White, only	2,921,370	3,921	10.9%	134.2
Unknown	--	13,413	37.4%	--
Total	6,180,253	35,836	100.0%	579.8

Table 5 – Chlamydia Diagnoses during 2023 by Assigned Sex at Birth and Race and Ethnicity, Reported through July 26, 2024

Race and Ethnicity	Assigned Sex at Birth							
	Female				Male			
	Population	Chlamydia Diagnoses			Population	Chlamydia Diagnoses		
		No.	% of Total	Rate		No.	% of Total	Rate
Hispanic	379,092	1,472	6.6%	388.3	402,181	547	4.1%	136.0
Non-Hispanic	2,796,758	12,558	56.3%	449.0	2,602,222	7,836	58.4%	301.1
American Indian or Alaska Native, only	7,415	85	0.4%	1,146.3	7,004	45	0.3%	642.5
Asian, only	223,955	194	0.9%	86.6	203,263	121	0.9%	59.5
Black, only	995,077	9,029	40.5%	907.4	870,321	6,205	46.2%	713.0
Multiracial or Another Race	86,248	584	2.6%	677.1	81,287	211	1.6%	259.6
Native Hawaiian or Another Pacific Islander, only	1,630	0	0.0%	0.0	1,410	0	0.0%	0.0
White, only	1,482,433	2,666	12.0%	179.8	1,438,937	1,254	9.3%	87.1
Unknown	--	8,266	37.1%	--	--	5,034	37.5%	--
Total	3,175,850	22,296	100.0%	702.0	3,004,403	13,417	100.0%	446.6

Table 6 – Chlamydia Diagnoses during 2023 by Assigned Sex at Birth and Age at Diagnosis, Reported through July 26, 2024

Age at Diagnosis	Assigned Sex at Birth							
	Female				Male			
	Population	Chlamydia Diagnoses			Population	Chlamydia Diagnoses		
		No.	% of Total	Rate		No.	% of Total	Rate
<15	546,285	348	1.6%	63.7	569,927	77	0.6%	13.5
15-19	195,325	6,853	30.7%	3,508.5	203,301	2,961	22.1%	1,456.5
20-24	181,895	7,844	35.2%	4,312.4	184,793	4,064	30.3%	2,199.2
25-29	190,189	3,673	16.5%	1,931.2	187,593	2,400	17.9%	1,279.4
30-34	213,928	1,847	8.3%	863.4	208,736	1,659	12.4%	794.8
35-39	218,850	853	3.8%	389.8	210,718	962	7.2%	456.5
40-44	212,532	411	1.8%	193.4	205,492	508	3.8%	247.2
45-54	393,774	333	1.5%	84.6	373,346	507	3.8%	135.8
55-64	424,771	98	0.4%	23.1	392,414	217	1.6%	55.3
65+	598,301	23	0.1%	3.8	468,083	53	0.4%	11.3
Unknown	--	13	0.1%	--	--	9	0.1%	--
Total	3,175,850	22,296	100.0%	702.0	3,004,403	13,417	100.0%	446.6

Section IV – Gonorrhea

Gonorrhea is a sexually transmitted infection caused by the bacterium Neisseria gonorrhoeae that may include the symptoms of swelling and pain in internal sexual organs, though the infection sometimes has no symptoms.

In 2023, a total of 12,802 diagnoses of gonorrhea were reported among Maryland residents, making it the second most common notifiable sexually transmitted infection in Maryland. The rate of diagnosis was 207.1 diagnoses per 100,000 people.

In 2023, people most affected by gonorrhea include:

Geographic Region

The highest number (4,112), proportion (32.1%), and rate (727.5) of gonorrhea diagnoses were among **Baltimore City** residents.

Assigned Sex at Birth

People assigned **female sex at birth** accounted for the highest number (4,946), proportion (38.6%), and rate (155.7) of gonorrhea diagnoses.

Race and Ethnicity

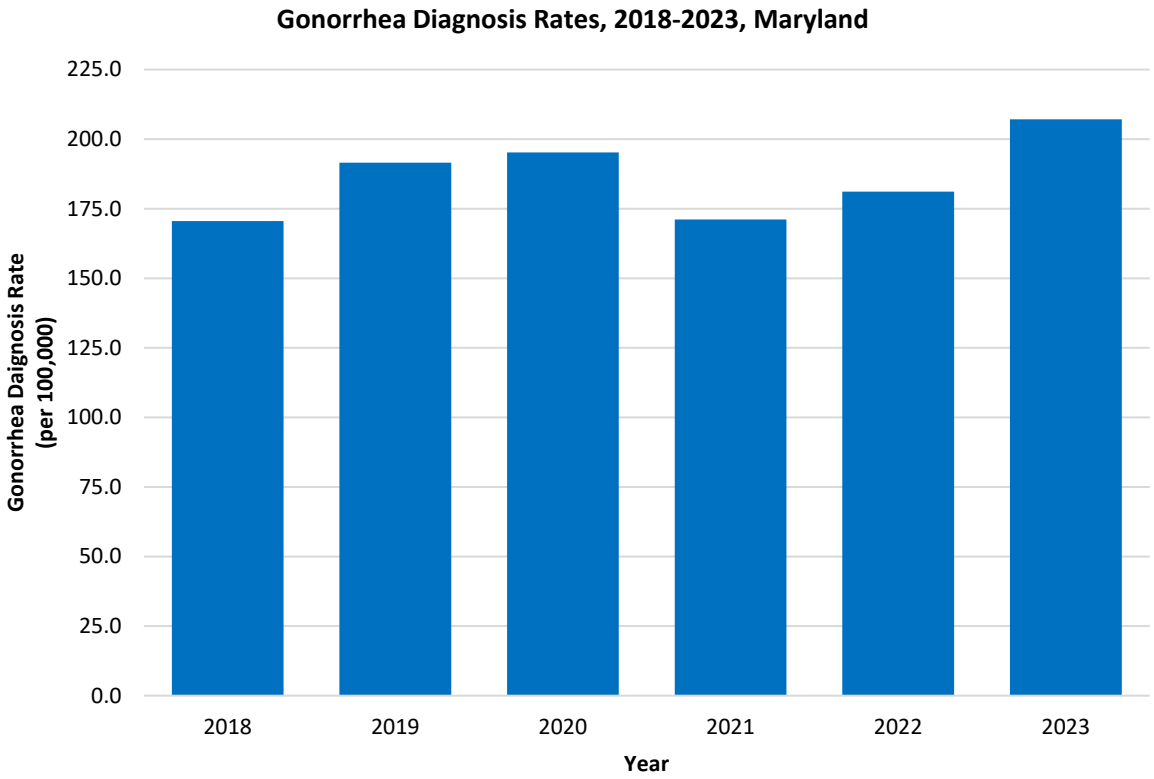
Non-Hispanic Black people accounted for the highest number (6,967) and proportion (54.4%) of gonorrhea diagnoses. The highest rate of gonorrhea diagnoses was among **Non-Hispanic multiracial people and people of another race** (528.2).

Age

People **ages 15-24** accounted for the highest number (5,858), proportion (45.8%), and rate (765.4) of gonorrhea diagnoses.

Section 4a – Trends in Gonorrhea Diagnoses, 2018-2023, Maryland

Figure 6 – Trends in Gonorrhea Diagnoses, 2018-2023, Reported through July 26, 2024



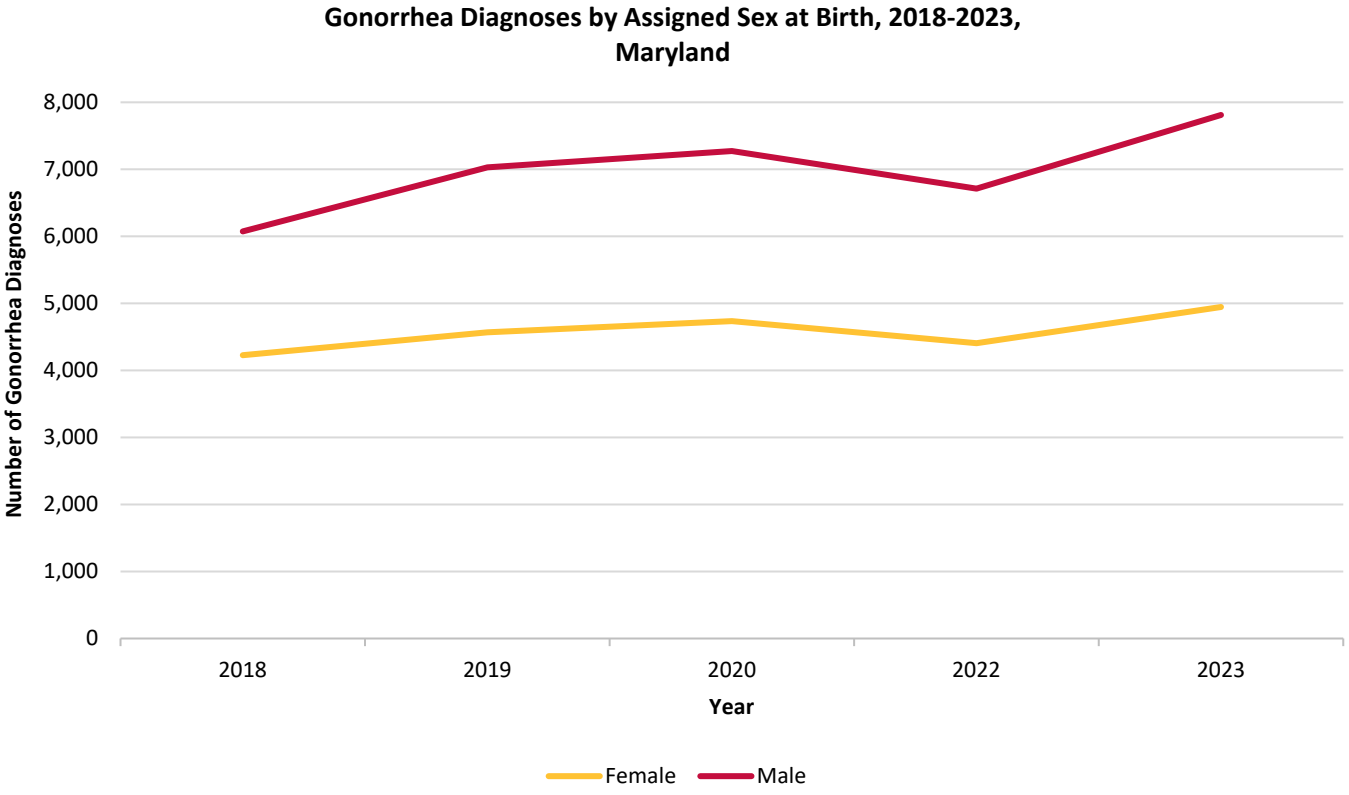
Year of Diagnosis	Population	Gonorrhea Diagnoses	
		Number	Rate
2018	6,042,153	10,305	170.6
2019	6,054,954	11,598	191.5
2020	6,173,689	12,052	195.2
2021	6,175,045	10,567	171.1
2022	6,163,981	11,164	181.1
2023	6,180,253	12,802	207.1

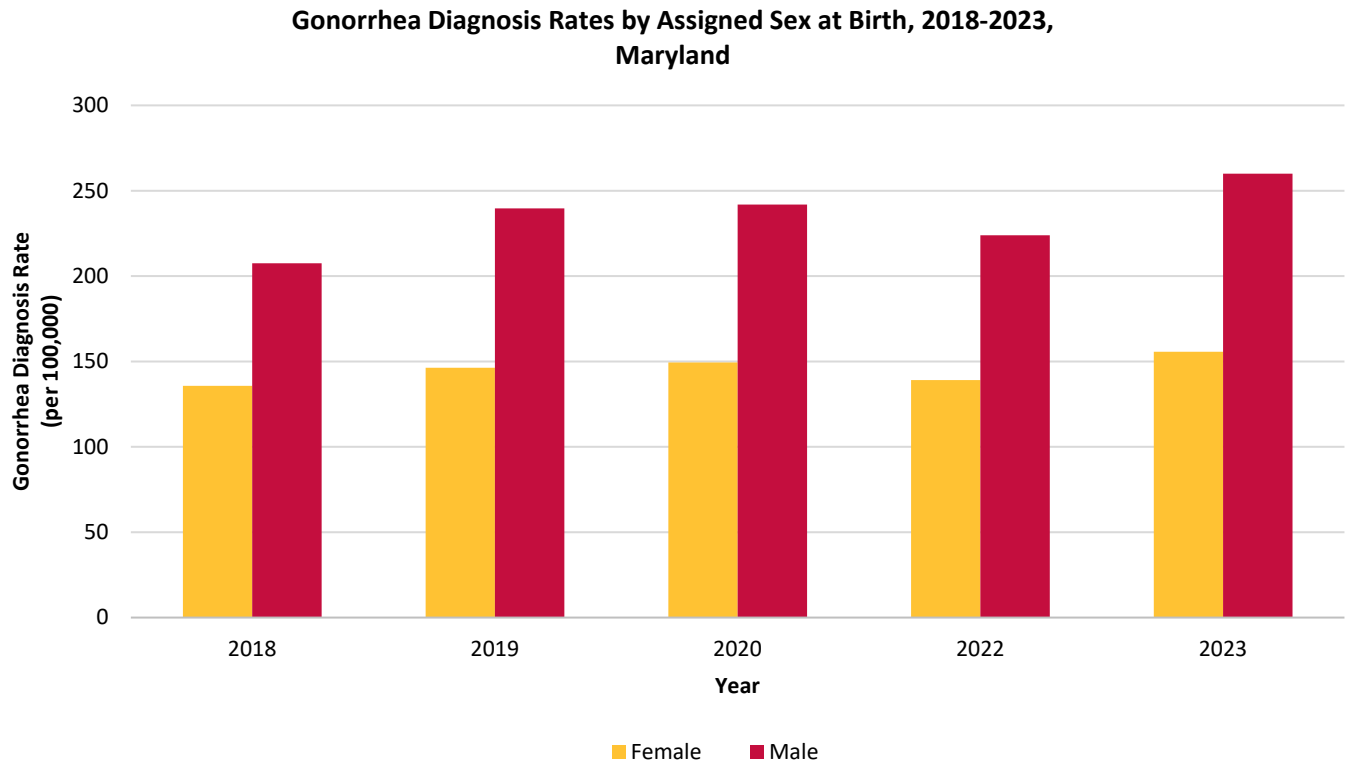
Table 7 – Trends in Gonorrhea Diagnoses by Jurisdiction of Residence at Diagnosis, 2018-2023, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Gonorrhea Diagnoses											
	2018		2019		2020		2021		2022		2023	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegany	41	57.8	22	31.2	47	69.2	--	--	35	52.0	40	59.5
Anne Arundel	544	94.5	681	117.4	634	107.6	--	--	529	89.2	625	105.1
Baltimore City	3,596	596.1	3,982	669.7	3,930	673.9	--	--	4,234	744.0	4,112	727.5
Baltimore	1,309	158.0	1,527	184.3	1,671	195.8	--	--	1,472	174.0	1,716	203.1
Calvert	68	73.8	94	101.4	74	79.6	--	--	49	51.8	55	58.1
Caroline	20	60.0	21	62.7	46	138.3	--	--	14	41.9	27	80.4
Carroll	93	55.2	70	41.5	52	30.1	--	--	57	32.5	44	24.9
Cecil	91	88.5	129	125.1	97	93.4	--	--	59	56.3	89	84.2
Charles	258	159.4	273	166.7	303	181.7	--	--	273	160.5	344	200.0
Dorchester	64	200.7	63	197.7	107	328.9	--	--	39	119.7	112	340.6
Frederick	131	51.2	133	51.0	159	58.3	--	--	168	58.4	149	50.8
Garrett	6	20.5	2	6.9	6	20.8	--	--	4	14.0	7	24.6
Harford	191	75.2	272	106.4	232	88.8	--	--	211	80.0	243	91.8
Howard	256	79.3	238	73.0	274	82.3	--	--	259	77.2	313	93.2
Kent	7	36.0	8	41.2	14	73.2	--	--	4	20.7	12	62.2
Montgomery	660	62.9	834	79.3	936	88.2	--	--	832	79.0	1,231	116.3
Prince George's	2,020	221.6	2,196	240.9	2,406	249.2	--	--	2,256	238.2	2,830	298.7
Queen Anne's	9	17.9	14	27.7	22	44.0	--	--	18	34.8	15	28.6
Saint Mary's	165	146.1	314	276.0	266	233.3	--	--	89	77.5	102	88.5
Somerset	69	269.1	38	148.4	62	252.4	--	--	30	121.9	58	232.8
Talbot	16	43.2	24	64.5	27	72.0	--	--	17	45.0	24	63.5
Washington	242	160.6	283	187.3	326	210.7	--	--	245	157.8	235	150.8
Wicomico	388	375.2	336	323.1	308	297.4	--	--	222	212.5	344	328.2
Worcester	61	117.4	44	84.2	53	100.9	--	--	47	87.1	66	121.8
Unknown	0	--	0	--	0	--	--	--	1	--	9	--
Total	10,305	170.6	11,598	191.5	12,052	195.2	10,567	171.1	11,164	181.1	12,802	207.1

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 7 – Trends in Gonorrhea Diagnoses by Assigned Sex at Birth, 2018-2023, Reported through July 26, 2024



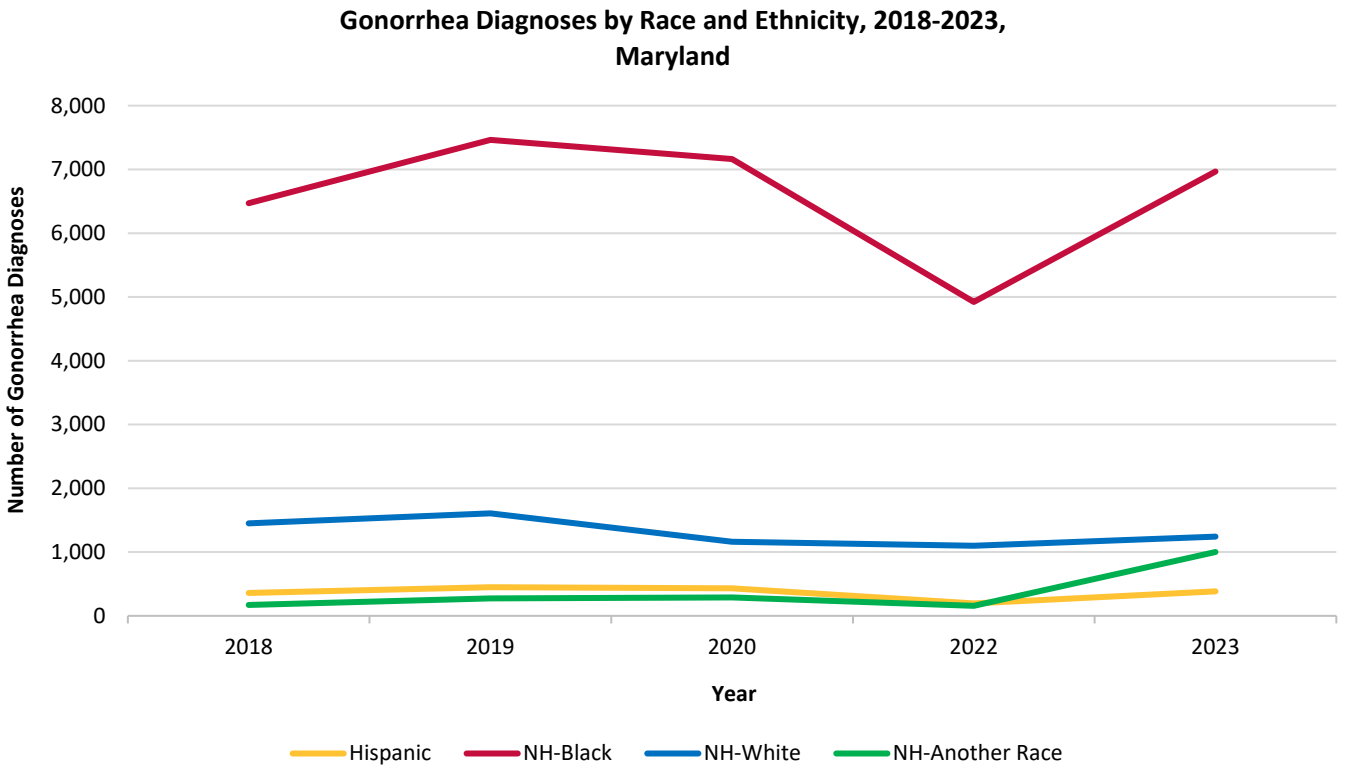


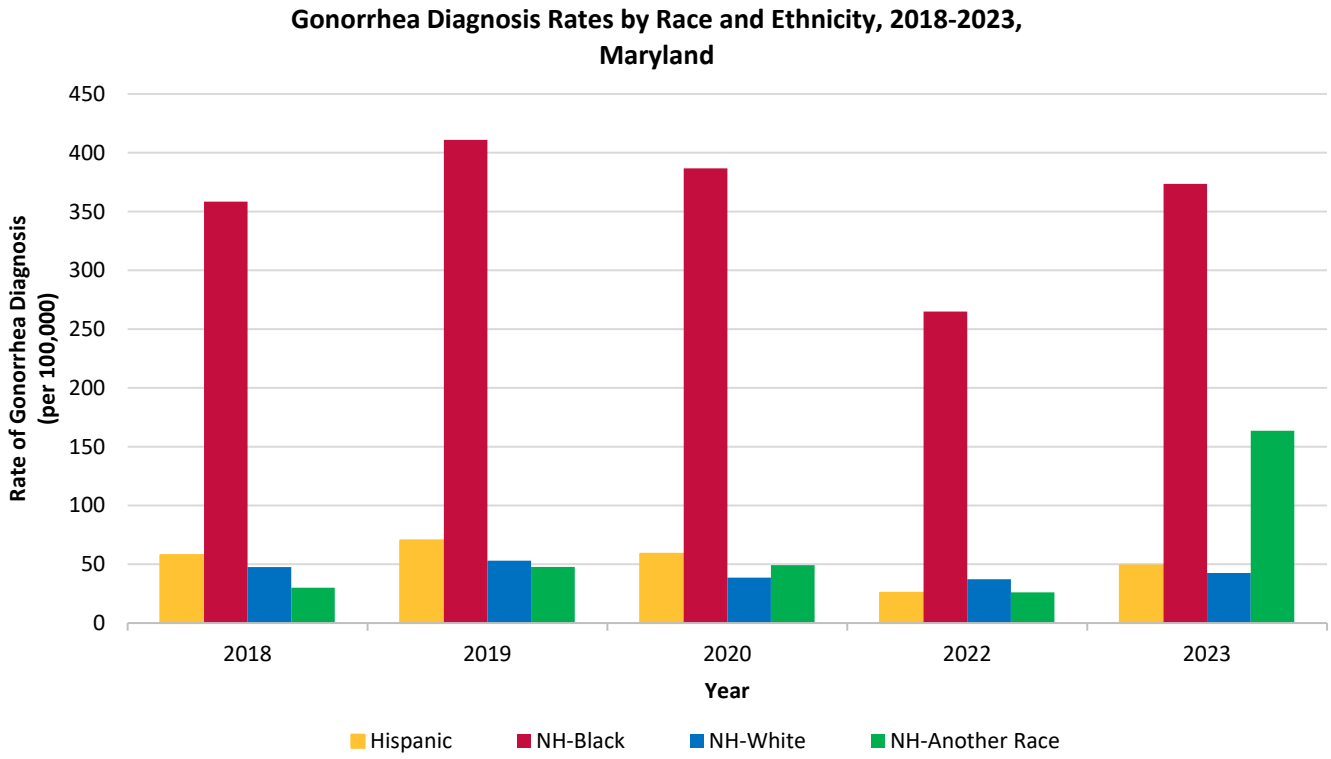
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Gonorrhea Diagnoses			Assigned Sex at Birth		
				Female	Male	Unknown
2018	10,305	Population		3,115,060	2,927,093	--
		Gonorrhea Diagnoses	Number	4,227	6,074	4
			Percent	41.0%	58.9%	0.0%
			Rate	135.7	207.5	--
2019	11,598	Population		3,122,480	2,932,474	--
		Gonorrhea Diagnoses	Number	4,568	7,029	1
			Percent	39.4%	60.6%	0.0%
			Rate	146.3	239.7	--
2020	12,052	Population		3,168,085	3,005,604	--
		Gonorrhea Diagnoses	Number	4,735	7,272	45
			Percent	39.3%	60.3%	0.4%
			Rate	149.5	241.9	
2021	10,567	Population		3,170,013	3,005,032	--
		Gonorrhea Diagnoses	Number	--	--	--
			Percent	--	--	--
			Rate	--	--	--
2022	11,164	Population		3,166,110	2,997,871	--
		Gonorrhea Diagnoses	Number	4,405	6,712	47
			Percent	39.5%	60.1%	0.4%
			Rate	139.1	223.9	--
2023	12,802	Population		3,175,850	3,004,403	--
		Gonorrhea Diagnoses	Number	4,946	7,811	45
			Percent	38.6%	61.0%	0.4%
			Rate	155.7	260.0	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 8 – Trends in Gonorrhea Diagnoses by Race and Ethnicity, 2018-2023, Reported through July 26, 2024





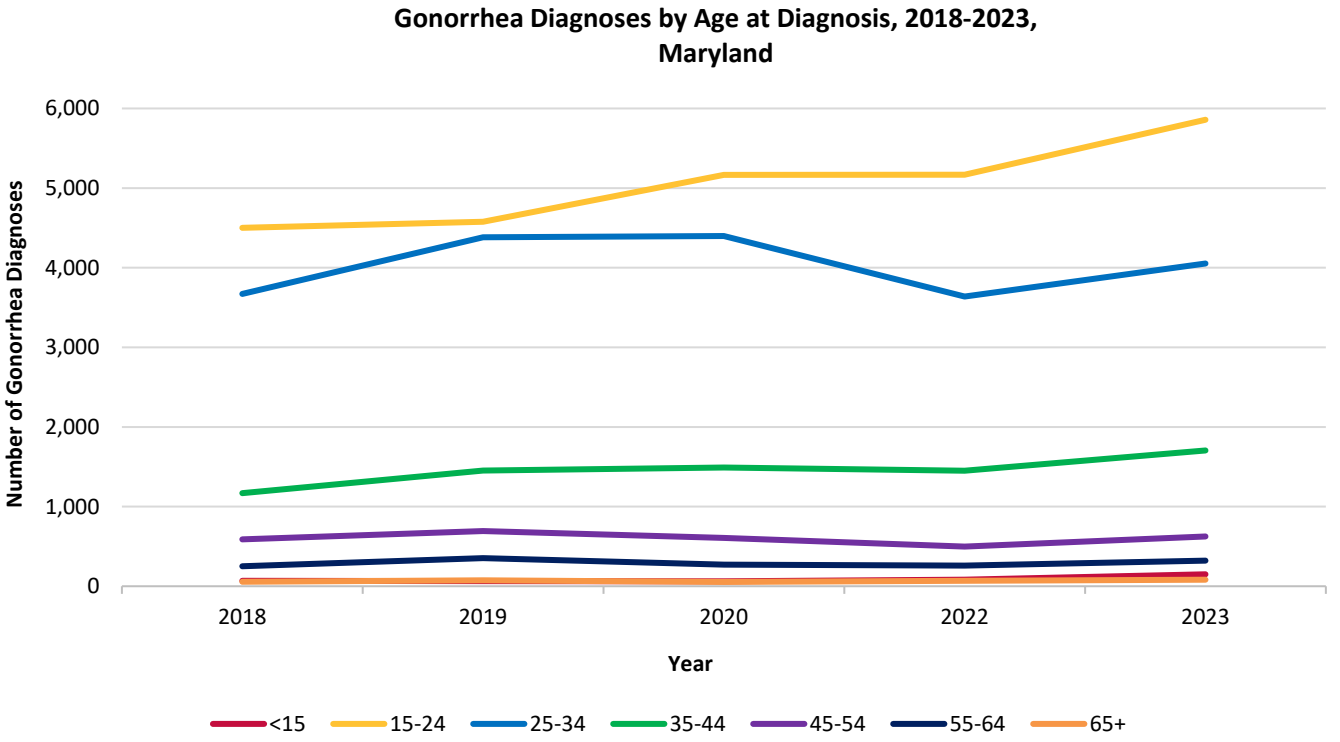
Non-Hispanic Asian, Non-Hispanic American Indian or Alaska Native, Non-Hispanic Native Hawaiian or Another Pacific Islander, and Non-Hispanic Multiracial or Another Race are combined in the above figures.

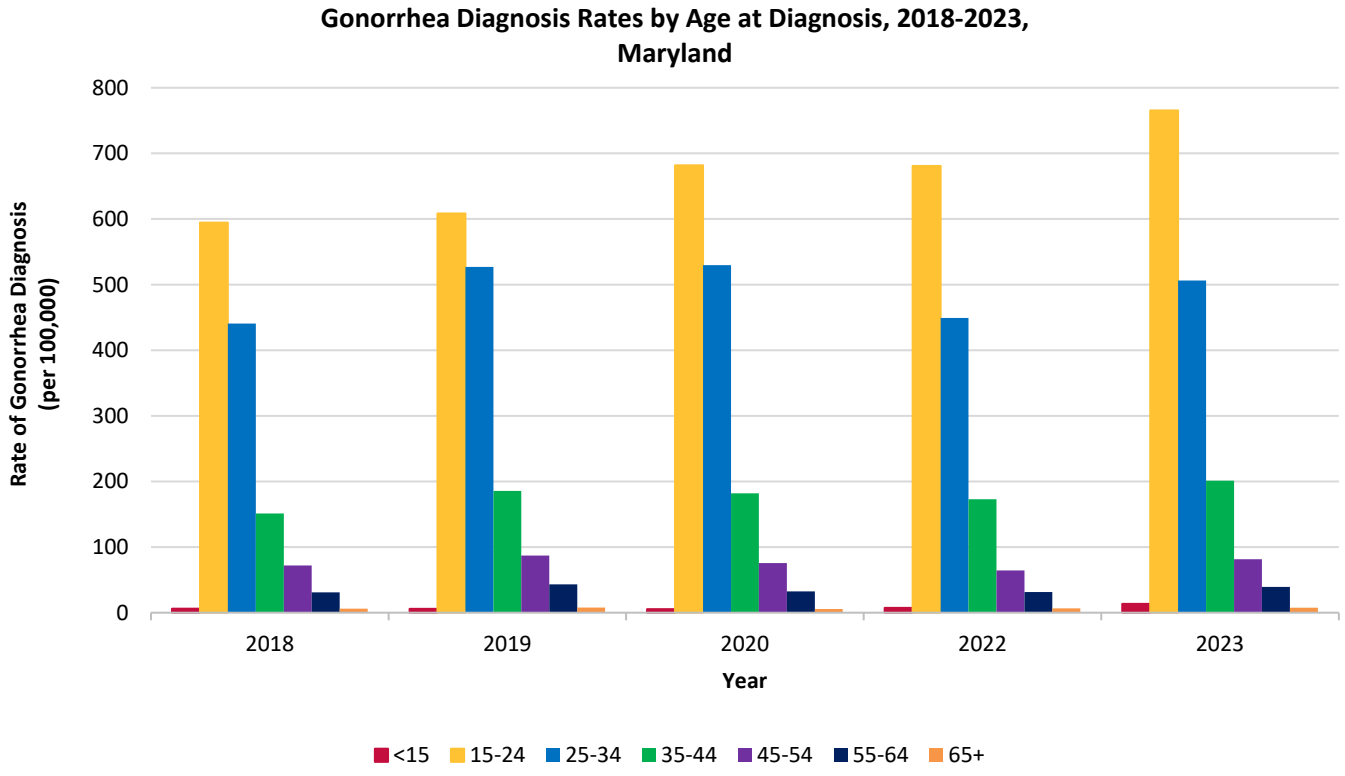
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Gonorrhea Diagnoses			Race and Ethnicity							
				Hispanic	Non-Hispanic American Indian or Alaska Native	Non-Hispanic Asian	Non-Hispanic Black	Non-Hispanic Multiracial or Another Race or Ethnicity	Non-Hispanic Native Hawaiian or Another Pacific Islander	Non-Hispanic White	Unknown
2018	10,305	Population		620,598	14,656	397,624	1,805,077	149,790	2,951	3,051,457	--
		Gonorrhea Diagnoses	Number	359	20	57	6,471	88	5	1,451	1,854
			Percent	3.5%	0.2%	0.6%	62.8%	0.9%	0.0%	14.1%	18.0%
			Rate	57.8	136.5	14.3	358.5	58.7	169.4	47.6	--
2019	11,598	Population		638,293	14,675	402,888	1,816,071	153,138	2,944	3,026,945	--
		Gonorrhea Diagnoses	Number	449	25	79	7,463	162	8	1,607	1,805
			Percent	3.9%	0.2%	0.7%	64.3%	1.4%	0.1%	13.9%	15.6%
			Rate	70.3	170.4	19.6	410.9	105.8	271.7	53.1	--
2020	12,052	Population		731,359	14,711	409,473	1,851,700	157,214	2,996	3,006,236	--
		Gonorrhea Diagnoses	Number	431	18	78	7,162	184	8	1,161	3,010
			Percent	3.6%	0.1%	0.6%	59.4%	1.5%	0.1%	9.6%	25.0%
			Rate	58.9	122.4	19.0	386.8	117.0	267.0	38.6	
2021	10,567	Population		743,580	14,582	414,577	1,856,924	160,336	3,004	2,982,042	--
		Gonorrhea Diagnoses	Number	--	--	--	--	--	--	--	--
			Percent	--	--	--	--	--	--	--	--
			Rate	--	--	--	--	--	--	--	--
2022	11,164	Population		759,452	14,465	419,536	1,857,381	163,656	3,012	2,946,479	--
		Gonorrhea Diagnoses	Number	195	48	101	4,922	0	8	1,099	4,791
			Percent	1.7%	0.4%	0.9%	44.1%	0.0%	0.1%	9.8%	42.9%
			Rate	25.7	331.8	24.1	265.0	0.0	265.6	37.3	--
2023	12,802	Population		781,273	14,419	427,218	1,865,398	167,535	3,040	2,921,370	--
		Gonorrhea Diagnoses	Number	383	26	90	6,967	885	0	1,242	3,209
			Percent	3.0%	0.2%	0.7%	54.4%	6.9%	0.0%	9.7%	25.1%
			Rate	49.0	180.3	21.1	373.5	528.2	0.0	42.5	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 9 – Trends in Gonorrhea Diagnoses by Age at Diagnosis, 2018-2023, Reported through July 26, 2024





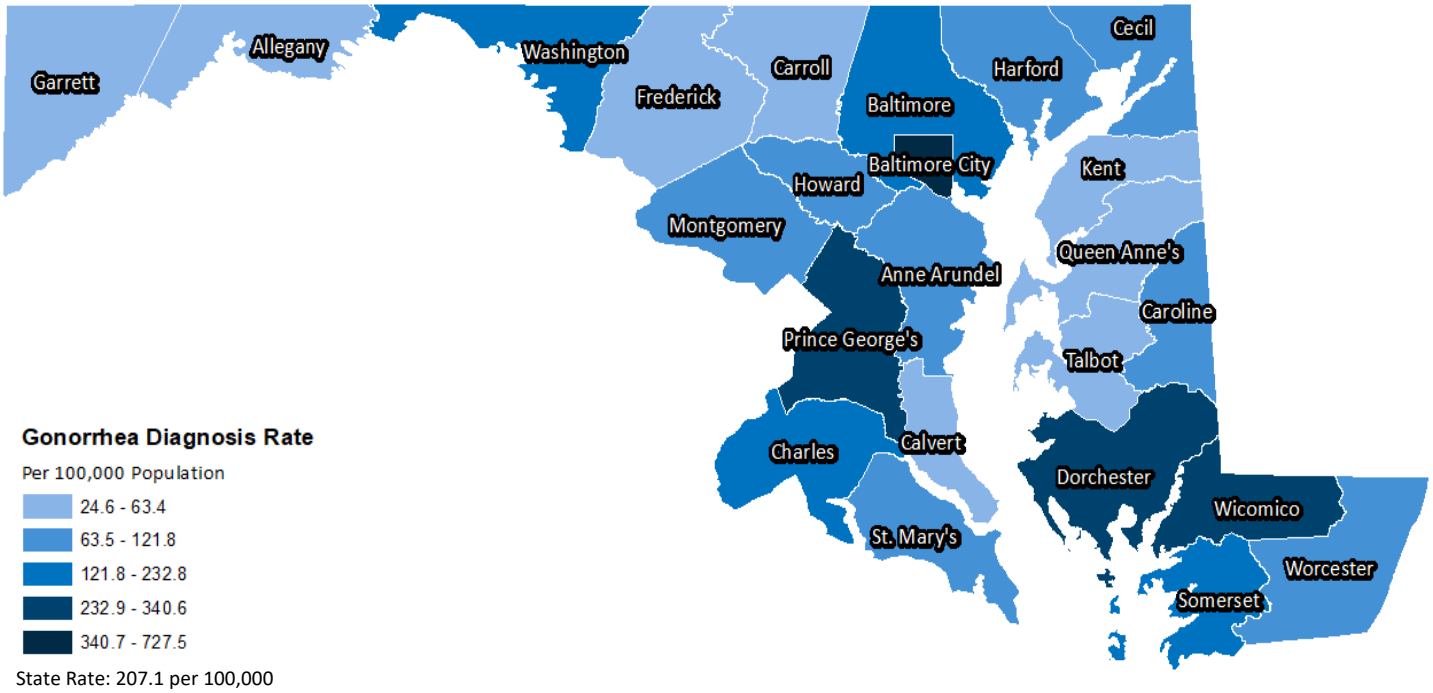
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Gonorrhea Diagnoses			Age at Diagnosis										
				<15	15-19	20-24	25-29	30-34	35-39	40-44	45-54	55-64	65+	Unknown
2018	10,305	Population		1,114,857	381,315	375,877	417,022	416,303	407,285	366,192	818,963	812,830	931,509	--
		Gonorrhea Diagnoses	Number	68	1,769	2,732	2,278	1,393	750	419	589	251	56	0
			Percent	0.7%	17.2%	26.5%	22.1%	13.5%	7.3%	4.1%	5.7%	2.4%	0.5%	0.0%
			Rate	6.1	463.9	726.8	546.3	334.6	184.1	114.4	71.9	30.9	6.0	--
2019	11,598	Population		1,112,990	380,590	371,722	413,011	418,662	411,204	371,921	795,426	819,177	960,251	--
		Gonorrhea Diagnoses	Number	65	1,659	2,918	2,630	1,752	950	503	693	353	75	0
			Percent	0.6%	14.3%	25.2%	22.7%	15.1%	8.2%	4.3%	6.0%	3.0%	0.6%	0.0%
			Rate	5.8	435.9	785.0	636.8	418.5	231.0	135.2	87.1	43.1	7.8	--
2020	12,052	Population		1,150,967	389,957	367,650	402,219	428,307	426,014	393,335	801,369	840,371	973,500	--
		Gonorrhea Diagnoses	Number	62	1,862	3,304	2,581	1,817	969	522	606	272	54	3
			Percent	0.5%	15.4%	27.4%	21.4%	15.1%	8.0%	4.3%	5.0%	2.3%	0.4%	0.0%
			Rate	5.4	477.5	898.7	641.7	424.2	227.5	132.7	75.6	32.4	5.5	--
2021	10,567	Population		1,136,702	391,294	369,420	394,841	428,803	427,555	403,208	785,163	836,690	1,001,369	--
		Gonorrhea Diagnoses	Number	--	--	--	--	--	--	--	--	--	--	--
			Percent	--	--	--	--	--	--	--	--	--	--	--
			Rate	--	--	--	--	--	--	--	--	--	--	--
2022	11,164	Population		1,124,972	392,978	366,027	384,556	425,294	427,922	410,565	773,669	826,328	1,031,670	--
		Gonorrhea Diagnoses	Number	82	2,019	3,148	2,036	1,602	943	507	498	260	69	0
			Percent	0.7%	18.1%	28.2%	18.2%	14.3%	8.4%	4.5%	4.5%	2.3%	0.6%	0.0%
			Rate	7.3	513.8	860.0	529.4	376.7	220.4	123.5	64.4	31.5	6.7	--
2023	12,802	Population		1,116,212	398,626	366,688	377,782	422,664	429,568	418,024	767,120	817,185	1,066,384	--
		Gonorrhea Diagnoses	Number	150	2,556	3,302	2,263	1,790	1,106	599	625	321	82	8
			Percent	1.2%	20.0%	25.8%	17.7%	14.0%	8.6%	4.7%	4.9%	2.5%	0.6%	0.1%
			Rate	13.4	641.2	900.5	599.0	423.5	257.5	143.3	81.5	39.3	7.7	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Section 4b – Gonorrhea Diagnoses, 2023, Maryland

Gonorrhea Diagnosis Rates by Jurisdiction, 2023



- The rate of gonorrhea diagnoses in Maryland is **207.1 per 100,000.**
  Jurisdictions with the highest rate of gonorrhea diagnoses in Maryland include:
  - Baltimore City: 727.5 per 100,000
  - Dorchester County: 340.6 per 100,000
  - Wicomico County: 328.2 per 100,000
  - Prince George's County: 298.7 per 100,000
  - Somerset County: 232.8 per 100,000

Table 8 – Gonorrhea Diagnoses during 2023 by Jurisdiction of Residence at Diagnosis, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Gonorrhea Diagnoses			
	Population	No.	% of Total	Rate
Allegany	67,273	40	0.3%	59.5
Anne Arundel	594,582	625	4.9%	105.1
Baltimore City	565,239	4,112	32.1%	727.5
Baltimore	844,703	1,716	13.4%	203.1
Calvert	94,728	55	0.4%	58.1
Caroline	33,593	27	0.2%	80.4
Carroll	176,639	44	0.3%	24.9
Cecil	105,672	89	0.7%	84.2
Charles	171,973	344	2.7%	200.0
Dorchester	32,879	112	0.9%	340.6
Frederick	293,391	149	1.2%	50.8
Garrett	28,423	7	0.1%	24.6
Harford	264,644	243	1.9%	91.8
Howard	336,001	313	2.4%	93.2
Kent	19,303	12	0.1%	62.2
Montgomery	1,058,474	1,231	9.6%	116.3
Prince George's	947,430	2,830	22.1%	298.7
Queen Anne's	52,508	15	0.1%	28.6
Saint Mary's	115,281	102	0.8%	88.5
Somerset	24,910	58	0.5%	232.8
Talbot	37,823	24	0.2%	63.5
Washington	155,813	235	1.8%	150.8
Wicomico	104,800	344	2.7%	328.2
Worcester	54,171	66	0.5%	121.8
Unknown	--	9	0.1%	--
Total	6,180,253	12,802	100.0%	207.1

Table 9 – Gonorrhea Diagnoses during 2023 by Age at Diagnosis, Assigned Sex at Birth, and Race and Ethnicity, Reported through July 26, 2024

Demographic Characteristics	Population	Gonorrhea Diagnoses		
		No.	% of Total	Rate
Age at Diagnosis				
<15	1,116,212	150	1.2%	13.4
15-19	398,626	2,556	20.0%	641.2
20-24	366,688	3,302	25.8%	900.5
25-29	377,782	2,263	17.7%	599.0
30-34	422,664	1,790	14.0%	423.5
35-39	429,568	1,106	8.6%	257.5
40-44	418,024	599	4.7%	143.3
45-54	767,120	625	4.9%	81.5
55-64	817,185	321	2.5%	39.3
65+	1,066,384	82	0.6%	7.7
Unknown	--	8	0.1%	--
Assigned Sex at Birth				
Female	3,175,850	4,946	38.6%	155.7
Male	3,004,403	7,811	61.0%	260.0
Unknown	--	45	0.4%	--
Race and Ethnicity				
Hispanic	781,273	383	3.0%	49.0
Non-Hispanic	5,398,980	9,210	71.9%	170.6
American Indian or Alaska Native, only	14,419	26	0.2%	180.3
Asian, only	427,218	90	0.7%	21.1
Black, only	1,865,398	6,967	54.4%	373.5
Multiracial or Another Race	167,535	885	6.9%	528.2
Native Hawaiian or Another Pacific Islander, only	3,040	0	0.0%	0.0
White, only	2,921,370	1,242	9.7%	42.5
Unknown	--	3,209	25.1%	--
Total	6,180,253	12,802	100.0%	207.1

Table 10 – Gonorrhea Diagnoses during 2023 by Assigned Sex at Birth and Race and Ethnicity, Reported through July 26, 2024

Race and Ethnicity	Assigned Sex at Birth							
	Female				Male			
	Population	Gonorrhea Diagnoses			Population	Gonorrhea Diagnoses		
		No.	% of Total	Rate		No.	% of Total	Rate
Hispanic	379,092	141	2.9%	37.2	402,181	242	3.1%	60.2
Non-Hispanic	2,796,758	3,590	72.6%	128.4	2,602,222	5,613	71.9%	215.7
American Indian or Alaska Native, only	7,415	7	0.1%	94.4	7,004	19	0.2%	271.3
Asian, only	223,955	27	0.5%	12.1	203,263	63	0.8%	31.0
Black, only	995,077	2,599	52.5%	261.2	870,321	4,365	55.9%	501.5
Multiracial or Another Race	86,248	428	8.7%	496.2	81,287	455	5.8%	559.7
Native Hawaiian or Another Pacific Islander, only	1,630	0	0.0%	0.0	1,410	0	0.0%	0.0
White, only	1,482,433	529	10.7%	35.7	1,438,937	711	9.1%	49.4
Unknown	--	1,215	24.6%	--	--	1,956	25.0%	--
Total	3,175,850	4,946	100.0%	155.7	3,004,403	7,811	100.0%	260.0

Table 11 – Gonorrhea Diagnoses during 2023 by Assigned Sex at Birth and Age at Diagnosis, Reported through July 26, 2024

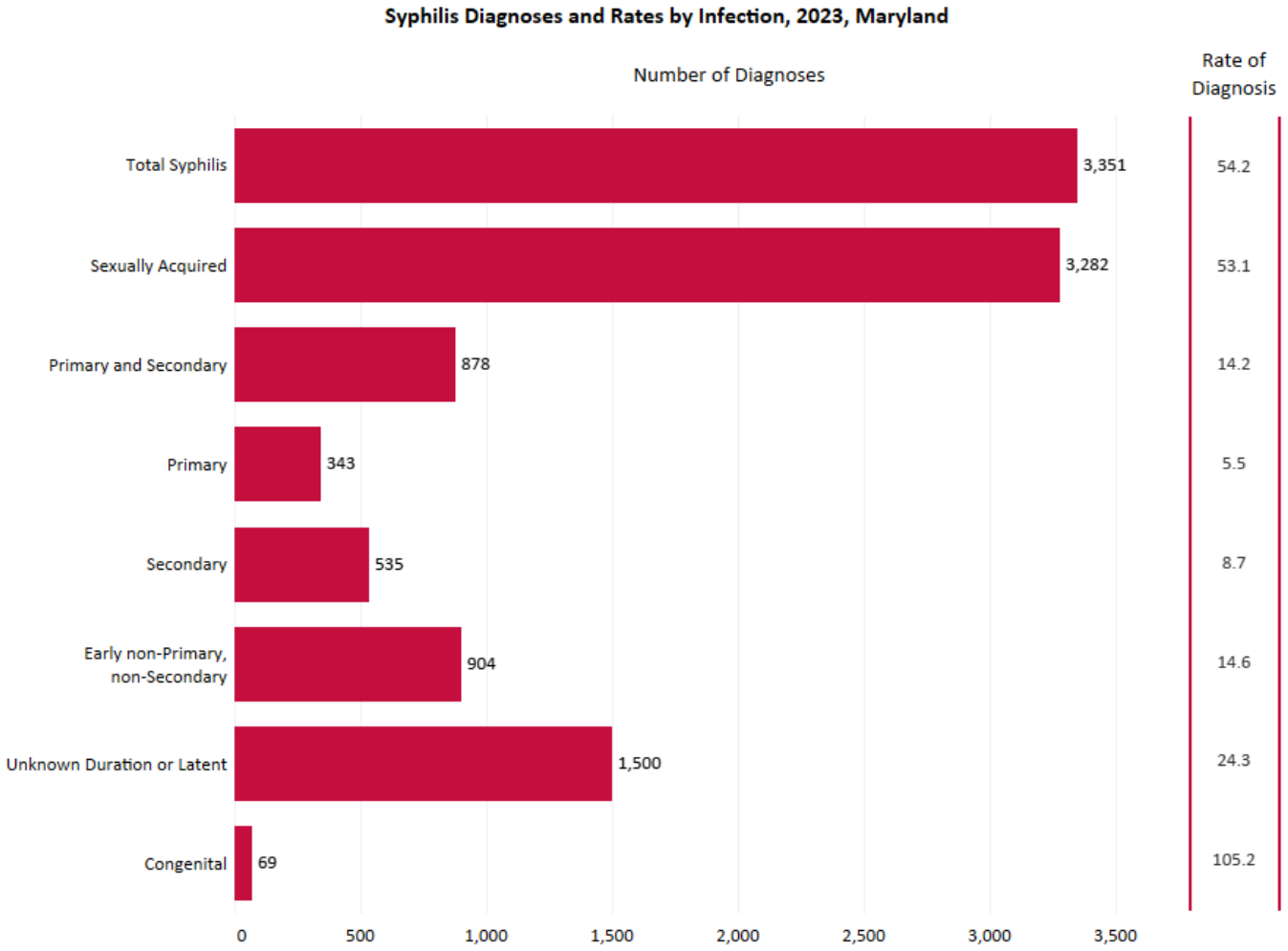
Age at Diagnosis	Assigned Sex at Birth							
	Female				Male			
	Population	Gonorrhea Diagnoses			Population	Gonorrhea Diagnoses		
		No.	% of Total	Rate		No.	% of Total	Rate
<15	546,285	104	2.1%	19.0	569,927	40	0.5%	7.0
15-19	195,325	1,427	28.9%	730.6	203,301	1,121	14.4%	551.4
20-24	181,895	1,540	31.1%	846.6	184,793	1,752	22.4%	948.1
25-29	190,189	813	16.4%	427.5	187,593	1,442	18.5%	768.7
30-34	213,928	533	10.8%	249.1	208,736	1,254	16.1%	600.8
35-39	218,850	259	5.2%	118.3	210,718	847	10.8%	402.0
40-44	212,532	121	2.4%	56.9	205,492	476	6.1%	231.6
45-54	393,774	100	2.0%	25.4	373,346	523	6.7%	140.1
55-64	424,771	38	0.8%	8.9	392,414	282	3.6%	71.9
65+	598,301	11	0.2%	1.8	468,083	69	0.9%	14.7
Unknown	--	0	0.0%	--	--	5	0.1%	--
Total	3,175,850	4,946	100.0%	155.7	3,004,403	7,811	100.0%	260.0

Section V – Syphilis

Syphilis is caused by the bacterium Treponema pallidum. Syphilis can remain dormant for years and can cause serious health problems without treatment. Syphilis develops in stages and each stage can have different signs and symptoms. The progression of syphilis can last weeks, months, or years.

In 2023, 3,351 diagnoses of syphilis were reported among Maryland residents. The rate of diagnosis was 54.2 diagnoses per 100,000 people.

Figure 10 – Syphilis Diagnoses during 2023 by Stage, Reported through July 26, 2024



Syphilis Infection	2023 Diagnoses		
	Number	% of Total	Rate
Total Syphilis	3,351	100.0%	54.2
Sexually Acquired Syphilis	3,282	97.9%	53.1
Primary and Secondary Syphilis	878	26.2%	14.2
Primary	343	10.2%	5.5
Secondary	535	16.0%	8.7
Early non-Primary, non-Secondary	904	27.0%	14.6
Late or Unknown Duration	1,500	44.8%	24.3
Congenital Syphilis	69	2.1%	105.2

Note. Congenital syphilis rates are per 100,000 live births. All other rates are per 100,00 population.

Section VI – Sexually Acquired Syphilis

Sexually acquired syphilis includes primary, secondary, and later stages of syphilis, as well as syphilis diagnoses with an unknown duration. Sexually acquired syphilis does *not* include congenital syphilis. In addition to primary and secondary syphilis, later stages are important to track as well, as they contribute to overall burden of syphilis in Maryland. Though not infectious or symptomatic, late syphilis that goes untreated can lead to major health complications later in life. Pregnant people can transmit syphilis to their unborn babies during any stage of infection.

In 2023, 3,282 diagnoses of sexually acquired syphilis were reported among Maryland residents. The rate of diagnosis was 53.1 diagnoses per 100,000 people.

In 2023, people most affected by sexually acquired syphilis include:

Geographic Region

The highest number (1,215), proportion (37.0%), and rate (215.0) of sexually acquired syphilis diagnoses were among **Baltimore City** residents.

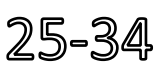
Assigned Sex at Birth

People assigned **male sex at birth** accounted for the highest number (2,388), proportion (72.8%), and rate (79.5) of sexually acquired syphilis diagnoses.

Race and Ethnicity

Non-Hispanic Black people accounted for the highest number (1,897) and proportion (57.8%) of sexually acquired syphilis diagnoses. The highest rate of syphilis diagnoses was among **Non-Hispanic multiracial people and people of another race** (133.7).

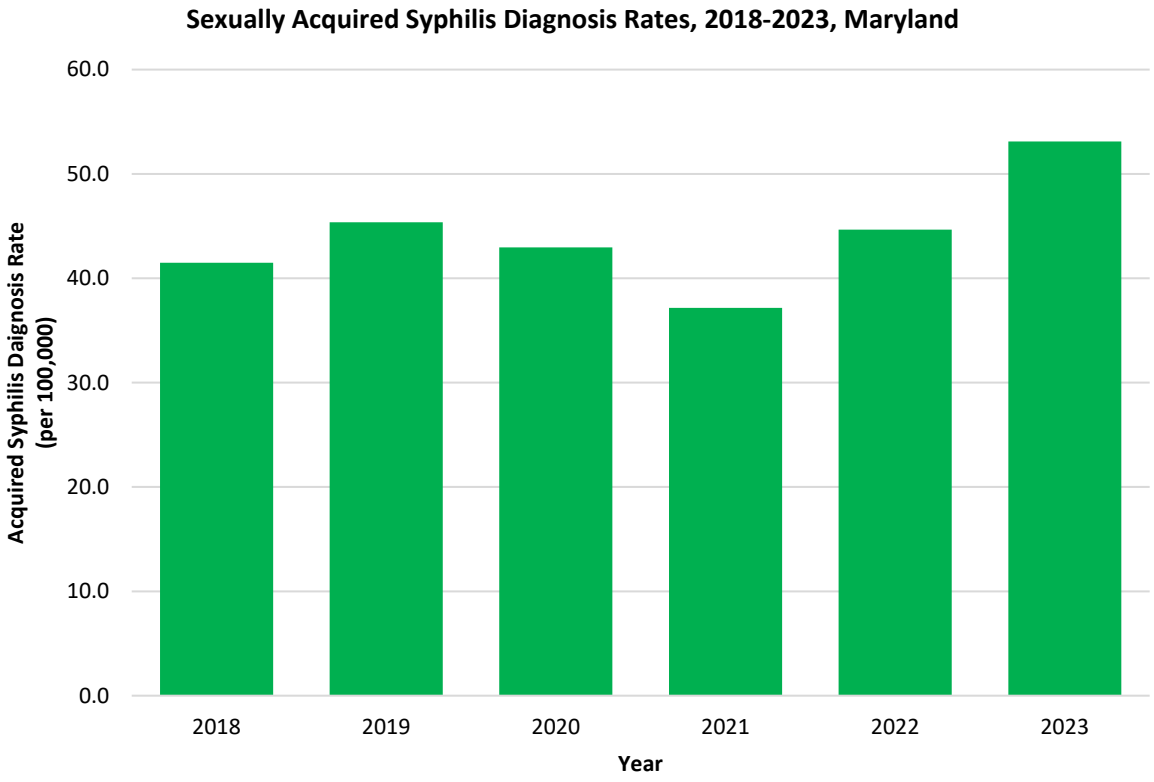
Age



People **aged 25-34** accounted for the highest number (1,170), proportion (35.6%), and rate (146.2) of sexually acquired syphilis diagnoses.

Section 6a – Trends in Sexually Acquired Syphilis Diagnoses, 2018-2023, Maryland

Figure 11 – Trends in Sexually Acquired Syphilis Diagnoses, 2018-2023, Reported through July 26, 2024



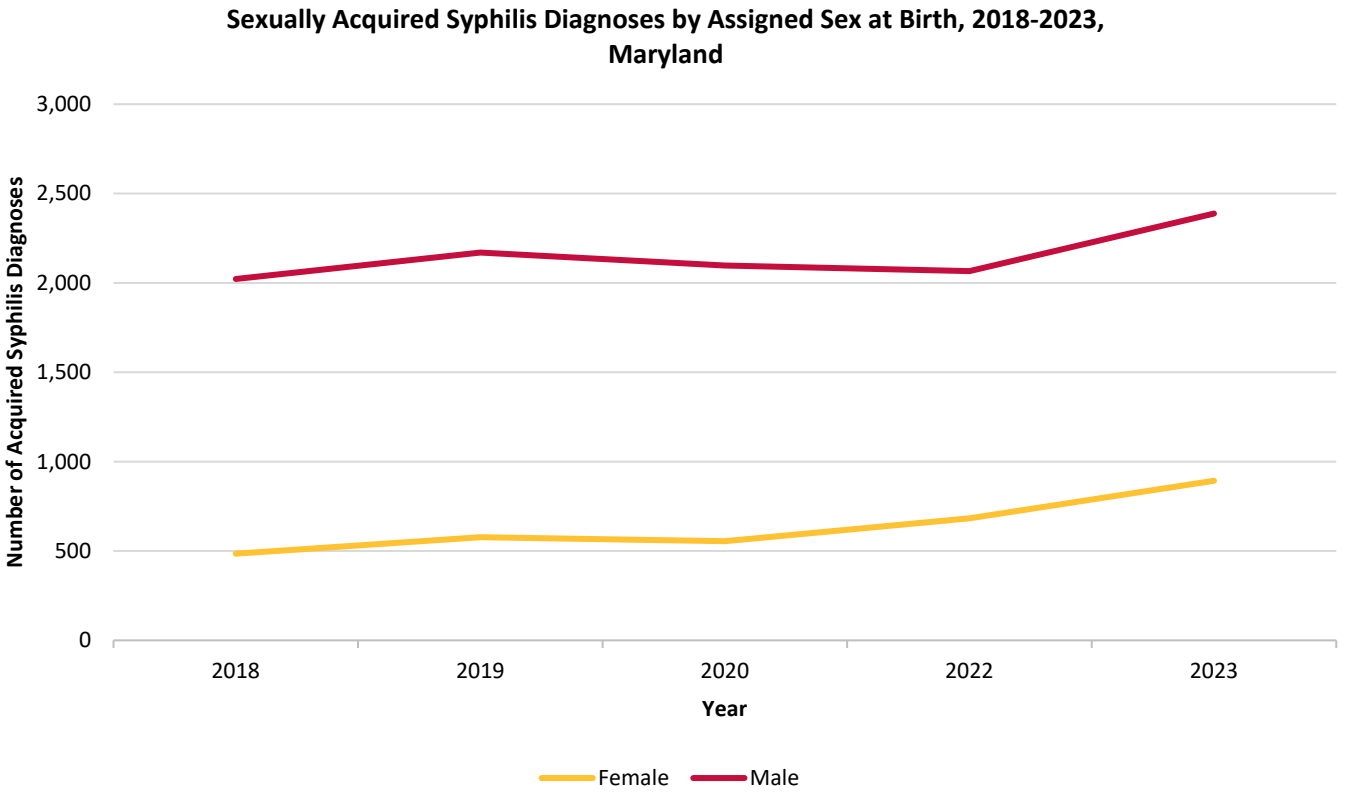
Year of Diagnosis	Population	Sexually Acquired Syphilis Diagnoses	
		Number	Rate
2018	6,042,153	2,507	41.5
2019	6,054,954	2,747	45.4
2020	6,173,689	2,652	43.0
2021	6,175,045	2,295	37.2
2022	6,163,981	2,753	44.7
2023	6,180,253	3,282	53.1

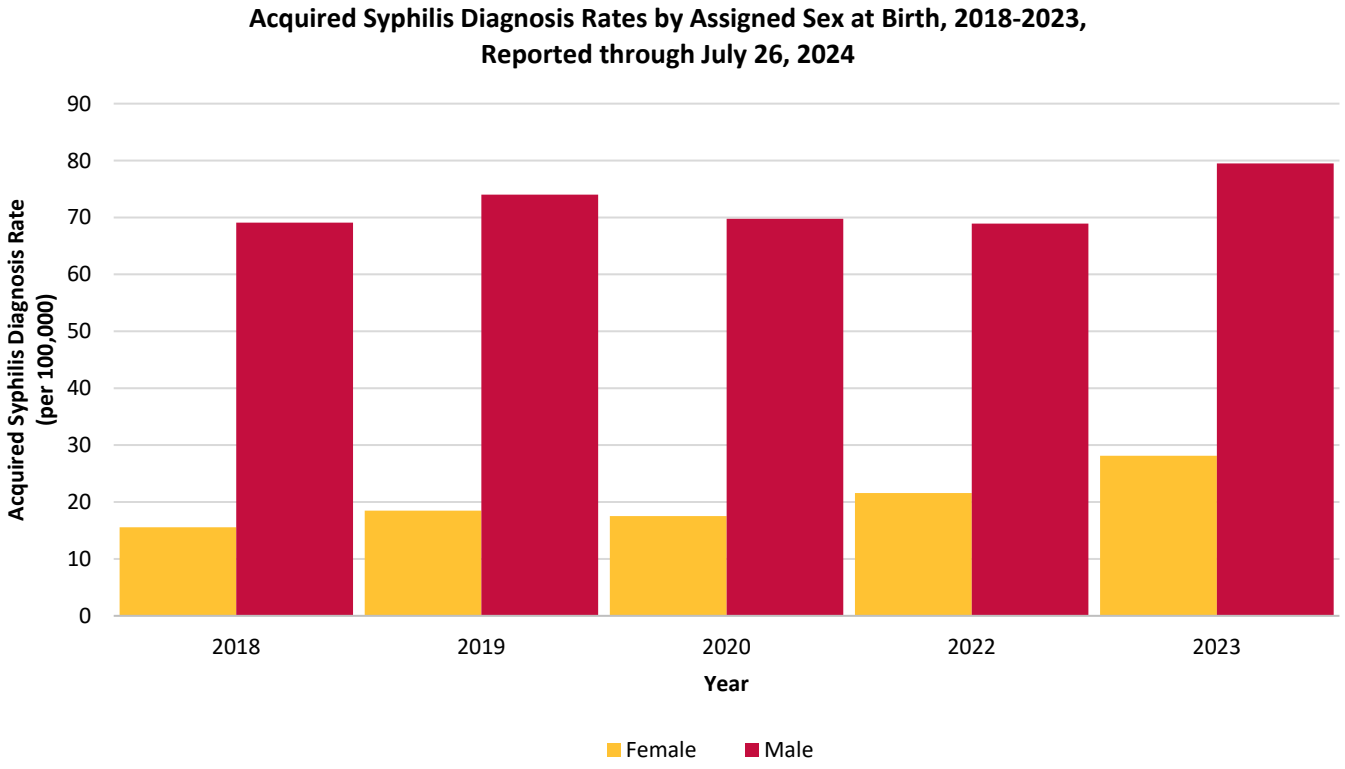
Table 12 – Trends in Sexually Acquired Syphilis Diagnoses by Jurisdiction of Residence at Diagnosis, 2018-2023, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Sexually Acquired Syphilis Diagnoses											
	2018		2019		2020		2021		2022		2023	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegany	3	4.2	10	14.2	4	5.9	--	--	5	7.4	8	11.9
Anne Arundel	124	21.5	164	28.3	118	20.0	--	--	131	22.1	190	32.0
Baltimore City	791	131.1	851	143.1	827	141.8	--	--	965	169.6	1,215	215.0
Baltimore	322	38.9	322	38.9	362	42.4	--	--	365	43.1	396	46.9
Calvert	11	11.9	14	15.1	10	10.8	--	--	6	6.3	11	11.6
Caroline	3	9.0	5	14.9	4	12.0	--	--	9	26.9	5	14.9
Carroll	18	10.7	18	10.7	5	2.9	--	--	24	13.7	20	11.3
Cecil	10	9.7	16	15.5	32	30.8	--	--	13	12.4	11	10.4
Charles	47	29.0	62	37.9	64	38.4	--	--	39	22.9	61	35.5
Dorchester	2	6.3	5	15.7	6	18.4	--	--	7	21.5	11	33.5
Frederick	45	17.6	59	22.6	44	16.1	--	--	41	14.3	46	15.7
Garrett	0	0.0	2	6.9	0	0.0.	--	--	0	0.0	0	0.0
Harford	35	13.8	31	12.1	37	14.2	--	--	38	14.4	58	21.9
Howard	75	23.2	65	19.9	61	18.3	--	--	65	19.4	73	21.7
Kent	1	5.1	4	20.6	4	20.9	--	--	2	10.4	2	10.4
Montgomery	282	26.9	307	29.2	265	25.0	--	--	318	30.2	332	31.4
Prince George's	642	70.4	640	70.2	663	68.7	--	--	637	67.3	662	69.9
Queen Anne's	5	9.9	1	2.0	3	6.0	--	--	5	9.7	7	13.3
Saint Mary's	12	10.6	15	13.2	14	12.3	--	--	3	2.6	7	6.1
Somerset	2	7.8	2	7.8	5	20.4	--	--	5	20.3	8	32.1
Talbot	2	5.4	2	5.4	1	2.7	--	--	1	2.6	5	13.2
Washington	50	33.2	130	86.1	102	65.9	--	--	36	23.2	68	43.6
Wicomico	19	18.4	21	20.2	17	16.4	--	--	31	29.7	70	66.8
Worcester	6	11.6	1	1.9	4	7.6	--	--	7	13.0	10	18.5
Unknown	0	--	0	--	0	--	--	--	0	--	6	--
Total	2,507	41.5	2,747	45.4	2,652	43.0	2,295	37.2	2,753	44.7	3,282	53.1

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 12 – Trends in Sexually Acquired Syphilis Diagnoses by Assigned Sex at Birth, 2018-2023, Reported through July 26, 2024



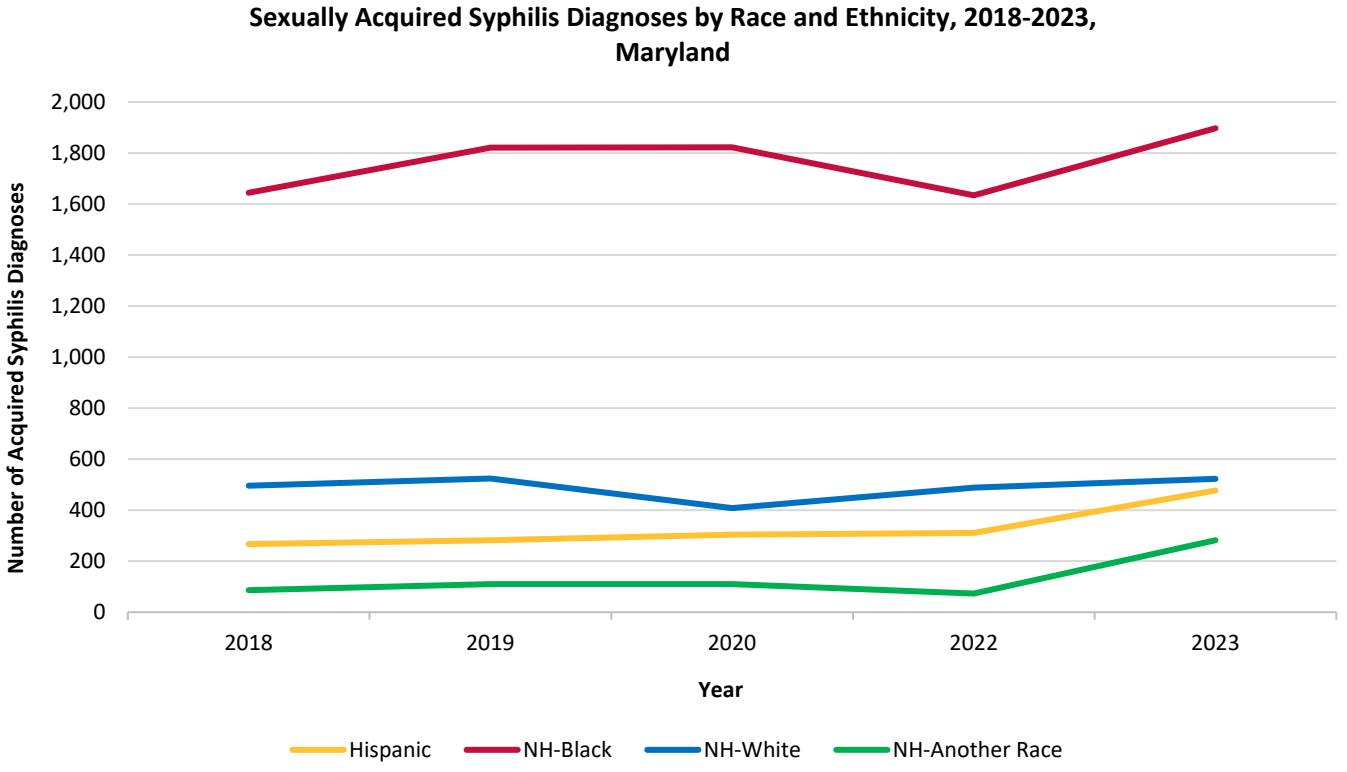


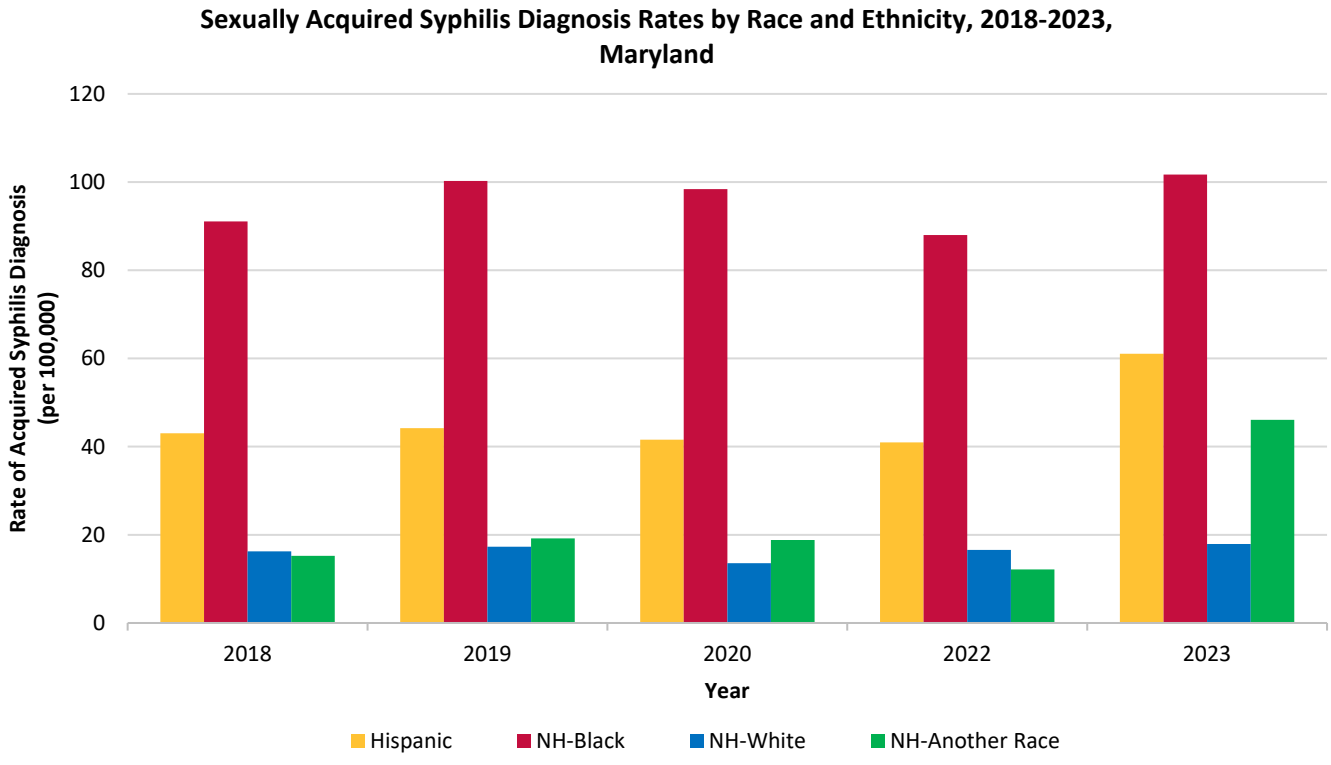
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Sexually Acquired Syphilis Diagnoses			Assigned Sex at Birth		
				Female	Male	Unknown
2018	2,507	Population		3,115,060	2,927,093	--
		Sexually Acquired Syphilis Diagnoses	Number	485	2,022	0
			Percent	19.3%	80.7%	0.0%
			Rate	15.6	69.1	--
2019	2,747	Population		3,122,480	2,932,474	--
		Sexually Acquired Syphilis Diagnoses	Number	577	2,170	0
			Percent	21.0%	79.0%	0.0%
			Rate	18.5	74.0	--
2020	2,652	Population		3,168,085	3,005,604	--
		Sexually Acquired Syphilis Diagnoses	Number	555	2,097	0
			Percent	20.9%	79.1%	0.0%
			Rate	17.5	69.8	
2021	2,295	Population		3,170,013	3,005,032	--
		Sexually Acquired Syphilis Diagnoses	Number	--	--	--
			Percent	--	--	--
			Rate	--	--	--
2022	2,753	Population		3,166,110	2,997,871	--
		Sexually Acquired Syphilis Diagnoses	Number	683	2,066	4
			Percent	24.8%	75.0%	0.1%
			Rate	21.6	68.9	--
2023	3,282	Population		3,175,850	3,004,403	--
		Sexually Acquired Syphilis Diagnoses	Number	893	2,388	1
			Percent	27.2%	72.8%	0.0%
			Rate	28.1	79.5	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 13 – Trends in Sexually Acquired Syphilis Diagnoses by Race and Ethnicity, 2018-2023, Reported through July 26, 2024





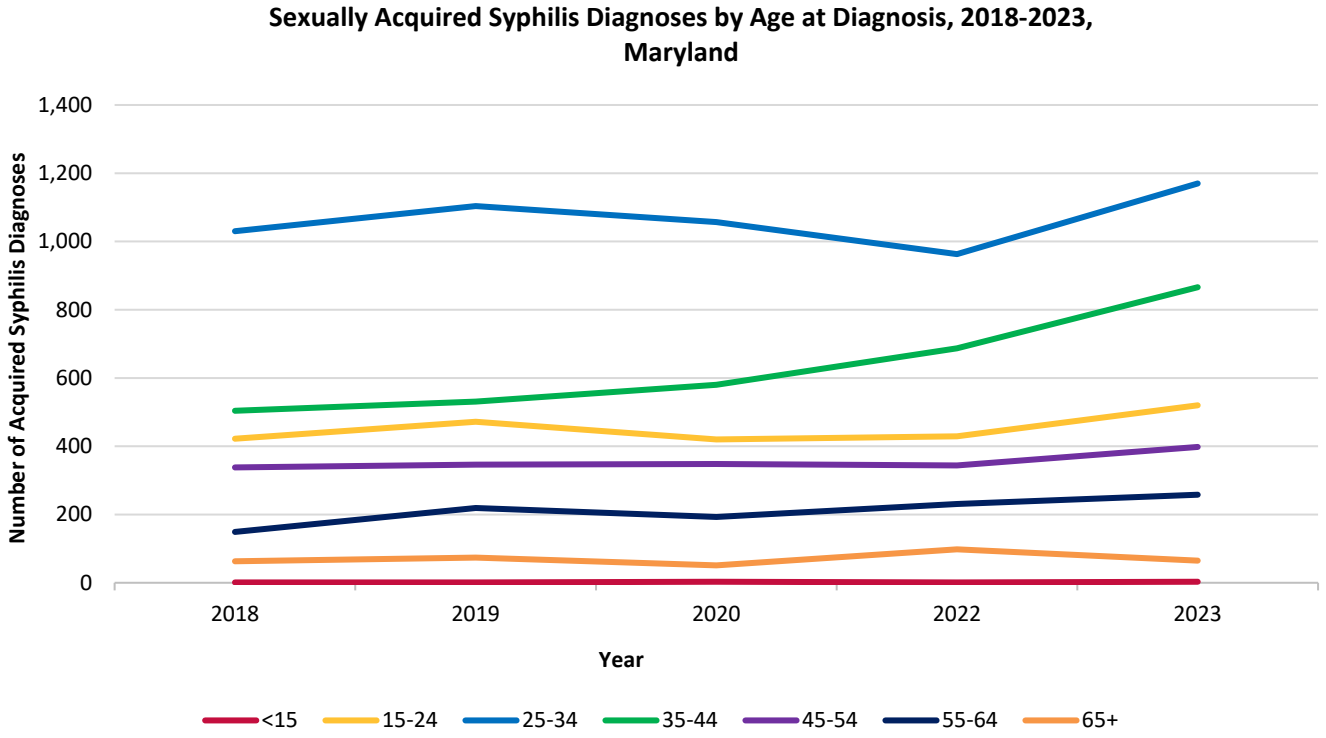
Non-Hispanic Asian, Non-Hispanic American Indian or Alaska Native, Non-Hispanic Native Hawaiian or Another Pacific Islander, and Non-Hispanic Multiracial or Another Race are combined in the above figures.

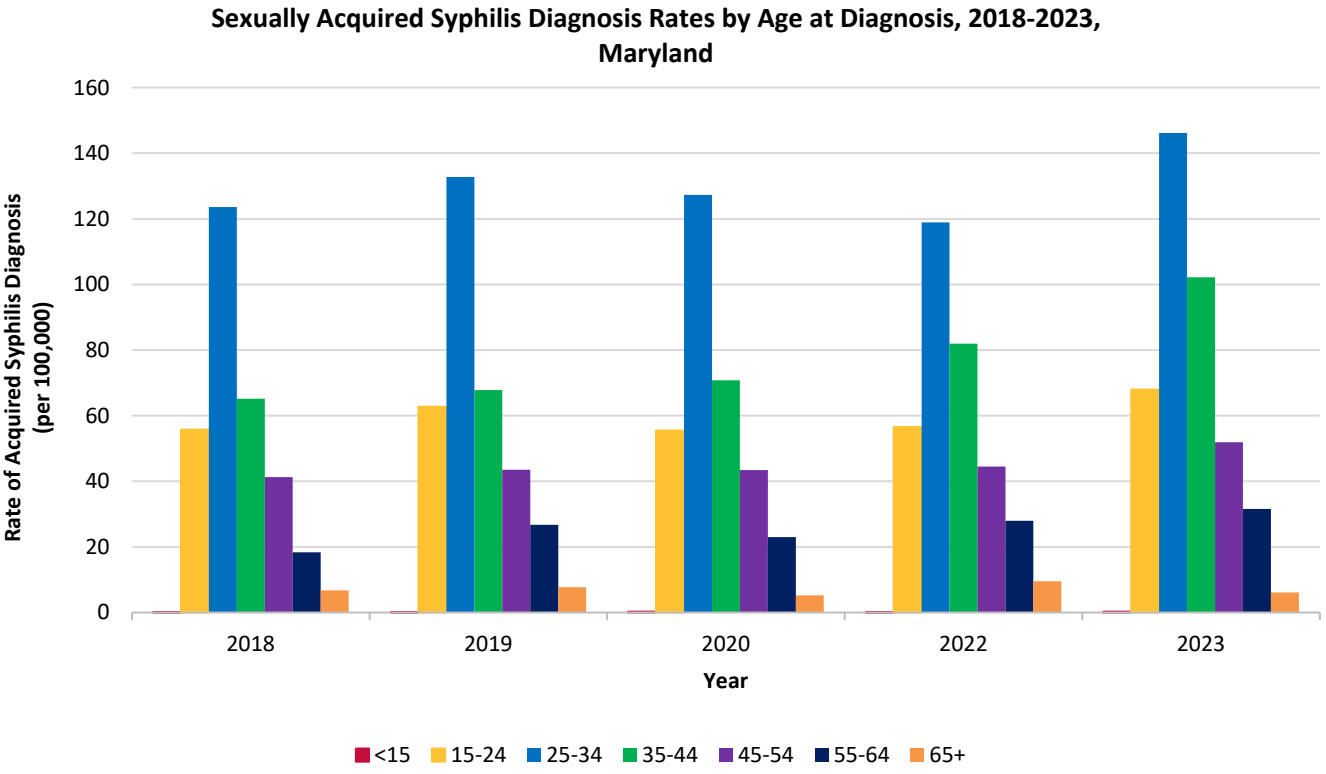
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Sexually Acquired Syphilis Diagnoses			Race and Ethnicity							
				Hispanic	Non-Hispanic American Indian or Alaska Native	Non-Hispanic Asian	Non-Hispanic Black	Non-Hispanic Multiracial or Another Race or Ethnicity	Non-Hispanic Native Hawaiian or Another Pacific Islander	Non-Hispanic White	Unknown
2018	2,507	Population		620,598	14,656	397,624	1,805,077	149,790	2,951	3,051,457	--
		Sexually Acquired Syphilis Diagnoses	Number	267	4	46	1,644	2	34	496	14
			Percent	10.7%	0.2%	1.8%	65.6%	0.1%	1.4%	19.8%	0.6%
			Rate	43.0	27.3	11.6	91.1	1.3	1152.2	16.3	--
2019	2,747	Population		638,293	14,675	402,888	1,816,071	153,138	2,944	3,026,945	--
		Sexually Acquired Syphilis Diagnoses	Number	282	6	74	1,821	28	2	524	10
			Percent	10.3%	0.2%	2.7%	66.3%	1.0%	0.1%	19.1%	0.4%
			Rate	44.2	40.9	18.4	100.3	18.3	67.9	17.3	--
2020	2,652	Population		731,359	14,711	409,473	1,851,700	157,214	2,996	3,006,236	--
		Sexually Acquired Syphilis Diagnoses	Number	304	3	46	1,822	55	6	408	8
			Percent	11.5%	0.1%	1.7%	68.7%	2.1%	0.2%	15.4%	0.3%
			Rate	41.6	20.4	11.2	98.4	35.0	200.3	13.6	
2021	2,295	Population		743,580	14,582	414,577	1,856,924	160,336	3,004	2,982,042	--
		Sexually Acquired Syphilis Diagnoses	Number	--	--	--	--	--	--	--	--
			Percent	--	--	--	--	--	--	--	--
			Rate	--	--	--	--	--	--	--	--
2022	2,753	Population		759,452	14,465	419,536	1,857,381	163,656	3,012	2,946,479	--
		Sexually Acquired Syphilis Diagnoses	Number	311	21	49	1,634	0	3	488	247
			Percent	11.3%	0.8%	1.8%	59.4%	0.0%	0.1%	17.7%	9.0%
			Rate	41.0	145.2	11.7	88.0	0.0	99.6	16.6	--
2023	3,282	Population		781,273	14,419	427,218	1,865,398	167,535	3,040	2,921,370	--
		Sexually Acquired Syphilis Diagnoses	Number	477	5	53	1,897	224	0	523	103
			Percent	14.5%	0.2%	1.6%	57.8%	6.8%	0.0%	15.9%	3.1%
			Rate	61.1	34.7	12.4	101.7	133.7	0.0	17.9	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 14 – Trends in Sexually Acquired Syphilis Diagnoses by Age at Diagnosis, 2018-2023, Reported through July 26, 2024





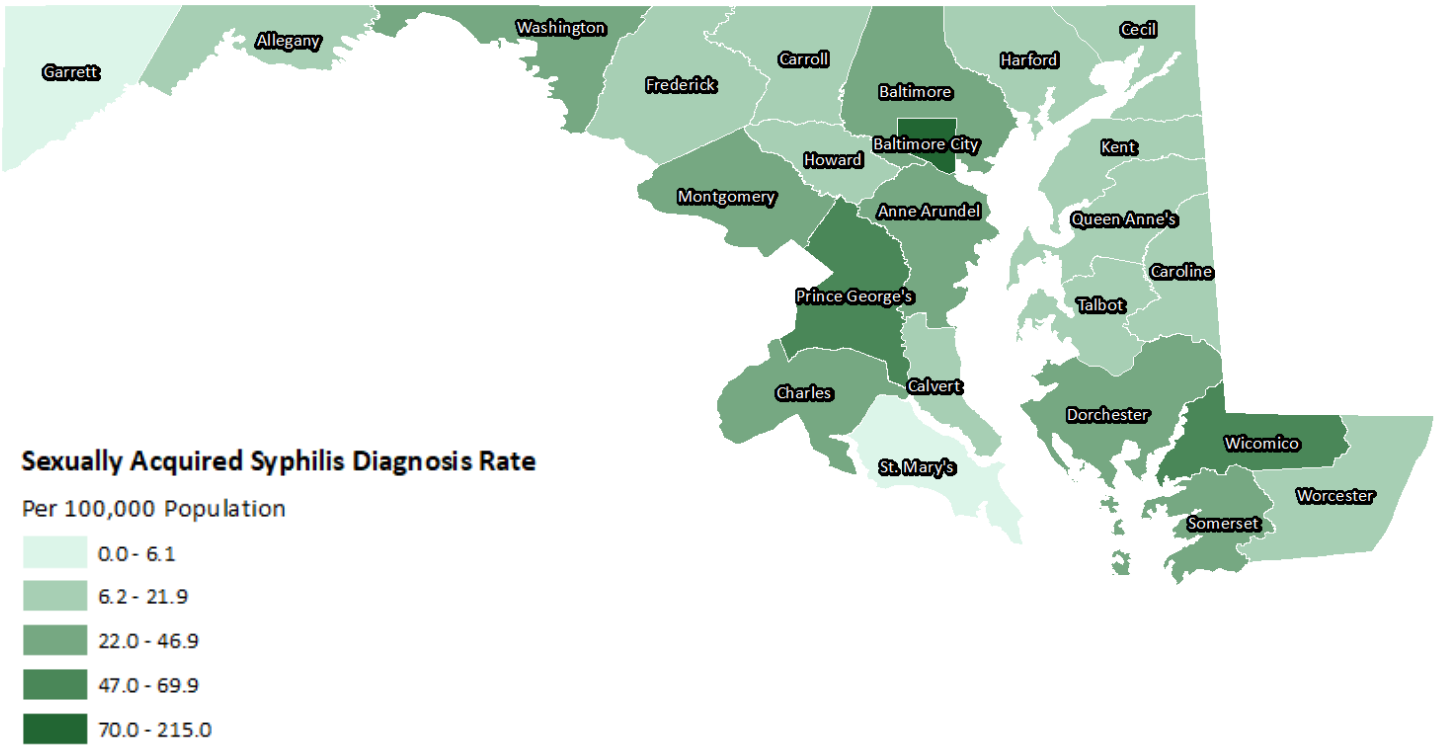
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Sexually Acquired Syphilis Diagnoses			Age at Diagnosis										
				<15	15-19	20-24	25-29	30-34	35-39	40-44	45-54	55-64	65+	Unknown
2018	2,507	Population		1,114,857	381,315	375,877	417,022	416,303	407,285	366,192	818,963	812,830	931,509	--
		Sexually Acquired Syphilis Diagnoses	Number	1	81	341	550	480	315	189	338	149	63	0
			Percent	0.0%	3.2%	13.6%	21.9%	19.1%	12.6%	7.5%	13.5%	5.9%	2.5%	0.0%
			Rate	0.1	21.2	90.7	131.9	115.3	77.3	51.6	41.3	18.3	6.8	--
2019	2,747	Population		1,112,990	380,590	371,722	413,011	418,662	411,204	371,921	795,426	819,177	960,251	--
		Sexually Acquired Syphilis Diagnoses	Number	1	94	378	570	534	325	206	346	219	74	0
			Percent	0.0%	3.4%	13.8%	20.7%	19.4%	11.8%	7.5%	12.6%	8.0%	2.7%	0.0%
			Rate	0.1	24.7	101.7	138.0	127.5	79.0	55.4	43.5	26.7	7.7	--
2020	2,652	Population		1,150,967	389,957	367,650	402,219	428,307	426,014	393,335	801,369	840,371	973,500	--
		Sexually Acquired Syphilis Diagnoses	Number	3	85	335	518	539	363	217	348	193	51	0
			Percent	0.1%	3.2%	12.6%	19.5%	20.3%	13.7%	8.2%	13.1%	7.3%	1.9%	0.0%
			Rate	0.3	21.8	91.1	128.8	125.8	85.2	55.2	43.4	23.0	5.2	--
2021	2,295	Population		1,136,702	391,294	369,420	394,841	428,803	427,555	403,208	785,163	836,690	1,001,369	--
		Sexually Acquired Syphilis Diagnoses	Number	--	--	--	--	--	--	--	--	--	--	--
			Percent	--	--	--	--	--	--	--	--	--	--	--
			Rate	--	--	--	--	--	--	--	--	--	--	--
2022	2,753	Population		1,124,972	392,978	366,027	384,556	425,294	427,922	410,565	773,669	826,328	1,031,670	--
		Sexually Acquired Syphilis Diagnoses	Number	1	82	347	467	496	415	272	344	231	98	0
			Percent	0.0%	3.0%	12.6%	17.0%	18.0%	15.1%	9.9%	12.5%	8.4%	3.6%	0.0%
			Rate	0.1	20.9	94.8	121.4	116.6	97.0	66.3	44.5	28.0	9.5	--
2023	3,282	Population		1,116,212	398,626	366,688	377,782	422,664	429,568	418,024	767,120	817,185	1,066,384	--
		Sexually Acquired Syphilis Diagnoses	Number	3	105	415	542	628	530	336	398	258	65	2
			Percent	0.1%	3.2%	12.6%	16.5%	19.1%	16.1%	10.2%	12.1%	7.9%	2.0%	0.1%
			Rate	0.3	26.3	113.2	143.5	148.6	123.4	80.4	51.9	31.6	6.1	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Section 6b – Sexually Acquired Syphilis Diagnoses, 2023, Maryland

Sexually Acquired Syphilis Diagnosis Rates by Jurisdiction, 2023



State Rate: 53.1 per 100,000

- The rate of sexually acquired syphilis diagnoses in Maryland is **53.1 per 100,000.**
  Jurisdictions with the highest rate of sexually acquired syphilis diagnoses in Maryland include:
  - Baltimore City: 215.0 per 100,000
  - Prince George's County: 69.9 per 100,000
  - Wicomico County: 66.8 per 100,000
  - Baltimore County: 46.9 per 100,000
  - Washington County: 43.6 per 100,000

Table 13 – Sexually Acquired Syphilis Diagnoses during 2023 by Jurisdiction of Residence at Diagnosis, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Population	Sexually Acquired Syphilis Diagnoses		
		No.	% of Total	Rate
Allegany	67,273	8	0.2%	11.9
Anne Arundel	594,582	190	5.8%	32.0
Baltimore City	565,239	1215	37.0%	215.0
Baltimore	844,703	396	12.1%	46.9
Calvert	94,728	11	0.3%	11.6
Caroline	33,593	5	0.2%	14.9
Carroll	176,639	20	0.6%	11.3
Cecil	105,672	11	0.3%	10.4
Charles	171,973	61	1.9%	35.5
Dorchester	32,879	11	0.3%	33.5
Frederick	293,391	46	1.4%	15.7
Garrett	28,423	0	0.0%	0.0
Harford	264,644	58	1.8%	21.9
Howard	336,001	73	2.2%	21.7
Kent	19,303	2	0.1%	10.4
Montgomery	1,058,474	332	10.1%	31.4
Prince George's	947,430	662	20.2%	69.9
Queen Anne's	52,508	7	0.2%	13.3
Saint Mary's	115,281	7	0.2%	6.1
Somerset	24,910	8	0.2%	32.1
Talbot	37,823	5	0.2%	13.2
Washington	155,813	68	2.1%	43.6
Wicomico	104,800	70	2.1%	66.8
Worcester	54,171	10	0.3%	18.5
Unknown	--	6	0.2%	--
Total	6,180,253	3,282	100.0%	53.1

Table 14 – Sexually Acquired Syphilis Diagnoses during 2023 by Age at Diagnosis, Assigned Sex at Birth, and Race and Ethnicity, Reported through July 26, 2024

Demographic Characteristics	Population	Sexually Acquired Syphilis Diagnoses		
		No.	% of Total	Rate
Age at Diagnosis				
<15	1,116,212	3	0.1%	0.3
15-19	398,626	105	3.2%	26.3
20-24	366,688	415	12.6%	113.2
25-29	377,782	542	16.5%	143.5
30-34	422,664	628	19.1%	148.6
35-39	429,568	530	16.1%	123.4
40-44	418,024	336	10.2%	80.4
45-54	767,120	398	12.1%	51.9
55-64	817,185	258	7.9%	31.6
65+	1,066,384	65	2.0%	6.1
Unknown	--	2	0.1%	--
Assigned Sex at Birth				
Female	3,175,850	893	27.2%	28.1
Male	3,004,403	2,388	72.8%	79.5
Unknown	--	1	0.0%	--
Race and Ethnicity				
Hispanic	781,273	477	14.5%	61.1
Non-Hispanic	5,398,980	2,702	82.3%	50.0
American Indian or Alaska Native, only	14,419	5	0.2%	34.7
Asian, only	427,218	53	1.6%	12.4
Black, only	1,865,398	1,897	57.8%	101.7
Multiracial or Another Race	167,535	224	6.8%	133.7
Native Hawaiian or Another Pacific Islander, only	3,040	0	0.0%	0.0
White, only	2,921,370	523	15.9%	17.9
Unknown	--	103	3.1%	--
Total	6,180,253	3,282	100.0%	53.1

Table 15 – Sexually Acquired Syphilis Diagnoses during 2023 by Assigned Sex at Birth and Race and Ethnicity, Reported through July 26, 2024

Race and Ethnicity	Assigned Sex at Birth							
	Female				Male			
	Population	Sexually Acquired Syphilis Diagnoses			Population	Sexually Acquired Syphilis Diagnoses		
		No.	% of Total	Rate		No.	% of Total	Rate
Hispanic	379,092	118	13.2%	31.1	402,181	359	15.0%	89.3
Non-Hispanic	2,796,758	757	84.8%	27.1	2,602,222	1,945	81.4%	74.7
American Indian or Alaska Native, only	7,415	2	0.2%	27.0	7,004	3	0.1%	42.8
Asian, only	223,955	8	0.9%	3.6	203,263	45	1.9%	22.1
Black, only	995,077	484	54.2%	48.6	870,321	1,413	59.2%	162.4
Multiracial or Another Race	86,248	57	6.4%	66.1	81,287	167	7.0%	205.4
Native Hawaiian or Another Pacific Islander, only	1,630	0	0.0%	0.0	1,410	0	0.0%	0.0
White, only	1,482,433	206	23.1%	13.9	1,438,937	317	13.3%	22.0
Unknown	--	18	2.0%	--	--	84	3.5%	--
Total	3,175,850	893	100.0%	28.1	3,004,403	2,388	100.0%	79.5

Table 16 – Sexually Acquired Syphilis Diagnoses during 2023 by Assigned Sex at Birth and Age at Diagnosis, Reported through July 26, 2024

Age at Diagnosis	Assigned Sex at Birth							
	Female				Male			
	Population	Sexually Acquired Syphilis Diagnoses			Population	Sexually Acquired Syphilis Diagnoses		
		No.	% of Total	Rate		No.	% of Total	Rate
<15	546,285	2	0.2%	0.4	569,927	1	0.0%	0.2
15-19	195,325	47	5.3%	24.1	203,301	58	2.4%	28.5
20-24	181,895	131	14.7%	72.0	184,793	284	11.9%	153.7
25-29	190,189	170	19.0%	89.4	187,593	371	15.5%	197.8
30-34	213,928	182	20.4%	85.1	208,736	446	18.7%	213.7
35-39	218,850	153	17.1%	69.9	210,718	377	15.8%	178.9
40-44	212,532	77	8.6%	36.2	205,492	259	10.8%	126.0
45-54	393,774	91	10.2%	23.1	373,346	307	12.9%	82.2
55-64	424,771	35	3.9%	8.2	392,414	223	9.3%	56.8
65+	598,301	4	0.4%	0.7	468,083	61	2.6%	13.0
Unknown	--	1	0.1%	--	--	1	0.0%	--
Total	3,175,850	893	100.0%	28.1	3,004,403	2,388	100.0%	79.5

Section VII – Primary and Secondary Syphilis

Primary and secondary syphilis are the infectious stages of syphilis, although pregnant people can transmit the infection to their unborn babies during any stage of infection.

In 2023, 878 diagnoses of primary and secondary syphilis were reported among Maryland residents. The rate of diagnosis was 14.2 diagnoses per 100,000 people.

In 2023, people most affected by primary and secondary syphilis include:

Geographic Region

The highest number (283), proportion (32.2%), and rate (50.1) of primary and secondary syphilis diagnoses were among **Baltimore City** residents.

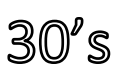
Assigned Sex at Birth

People assigned **male sex at birth** accounted for the highest number (695), proportion (79.2%), and rate (23.1) of primary and secondary syphilis diagnoses.

Race and Ethnicity

Non-Hispanic Black people accounted for the highest number (510) and proportion (58.1%) of primary and secondary syphilis diagnoses. The highest rate of primary and secondary syphilis diagnoses was among **Non-Hispanic multiracial people and people of another race** (32.8).

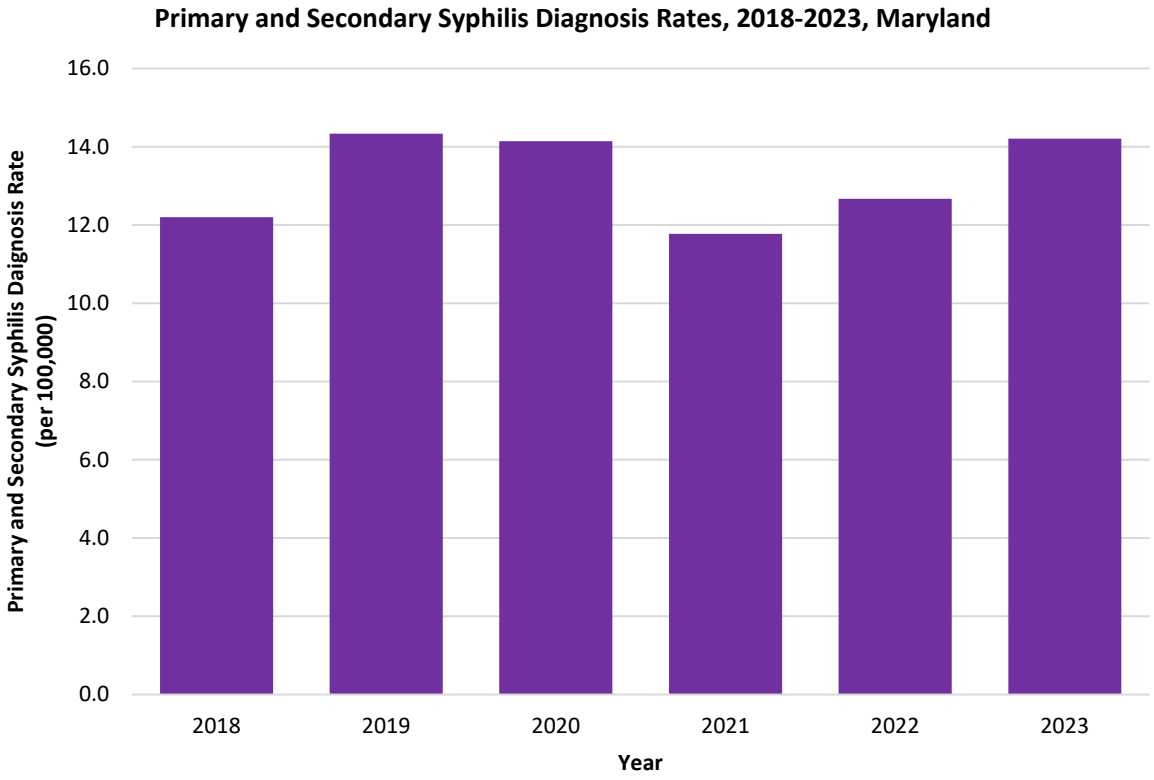
Age



People in their **30s** accounted for the highest number (298) and proportion (33.9%) of primary and secondary syphilis diagnoses. The diagnosis rate among people in their 30s was 35.0 per 100,000.

Section 7a – Trends in Primary and Secondary Syphilis Diagnoses, 2018-2023, Maryland

Figure 15 – Trends in Primary and Secondary Syphilis Diagnoses, 2018-2023, Reported through July 26, 2024



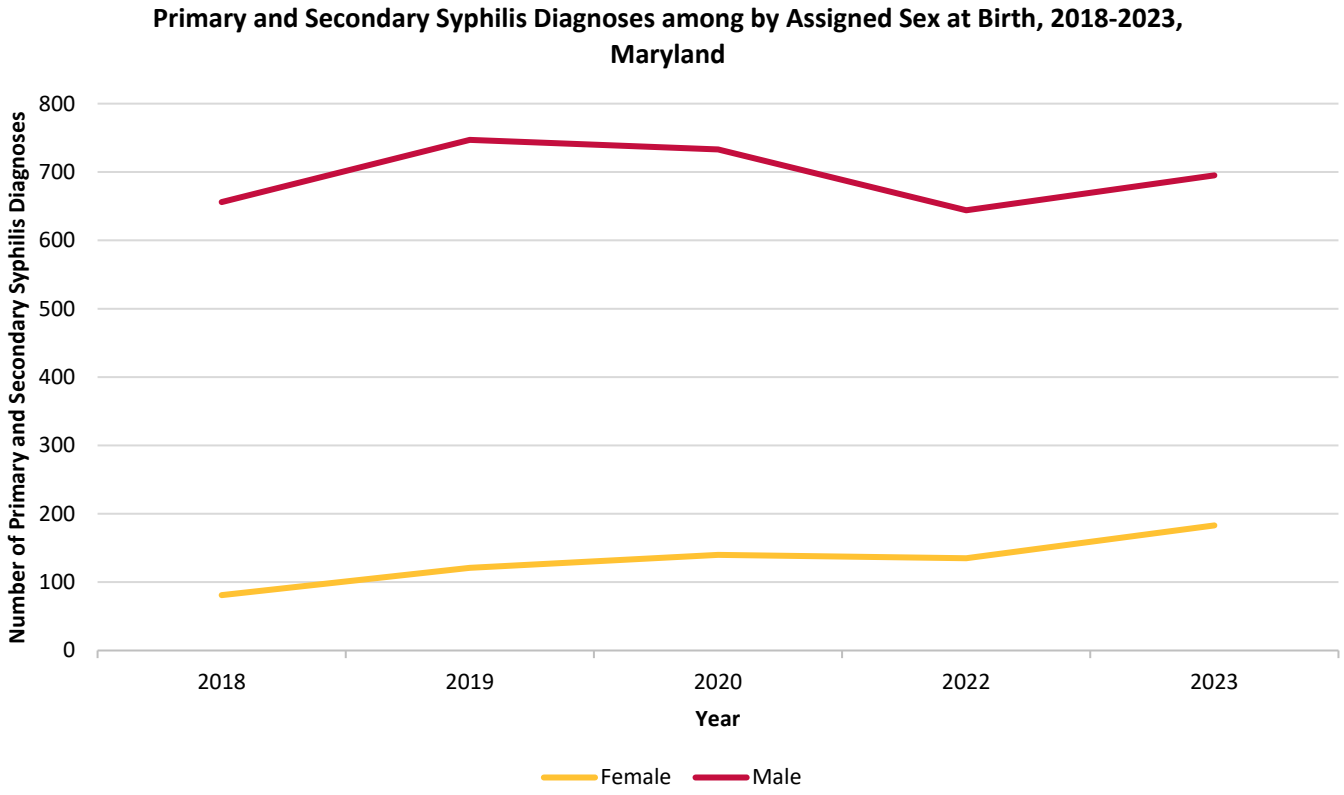
Year of Diagnosis	Population	Primary and Secondary Syphilis Diagnoses	
		Number	Rate
2018	6,042,153	737	12.2
2019	6,054,954	868	14.3
2020	6,173,689	873	14.1
2021	6,175,045	727	11.8
2022	6,163,981	781	12.7
2023	6,180,253	878	14.2

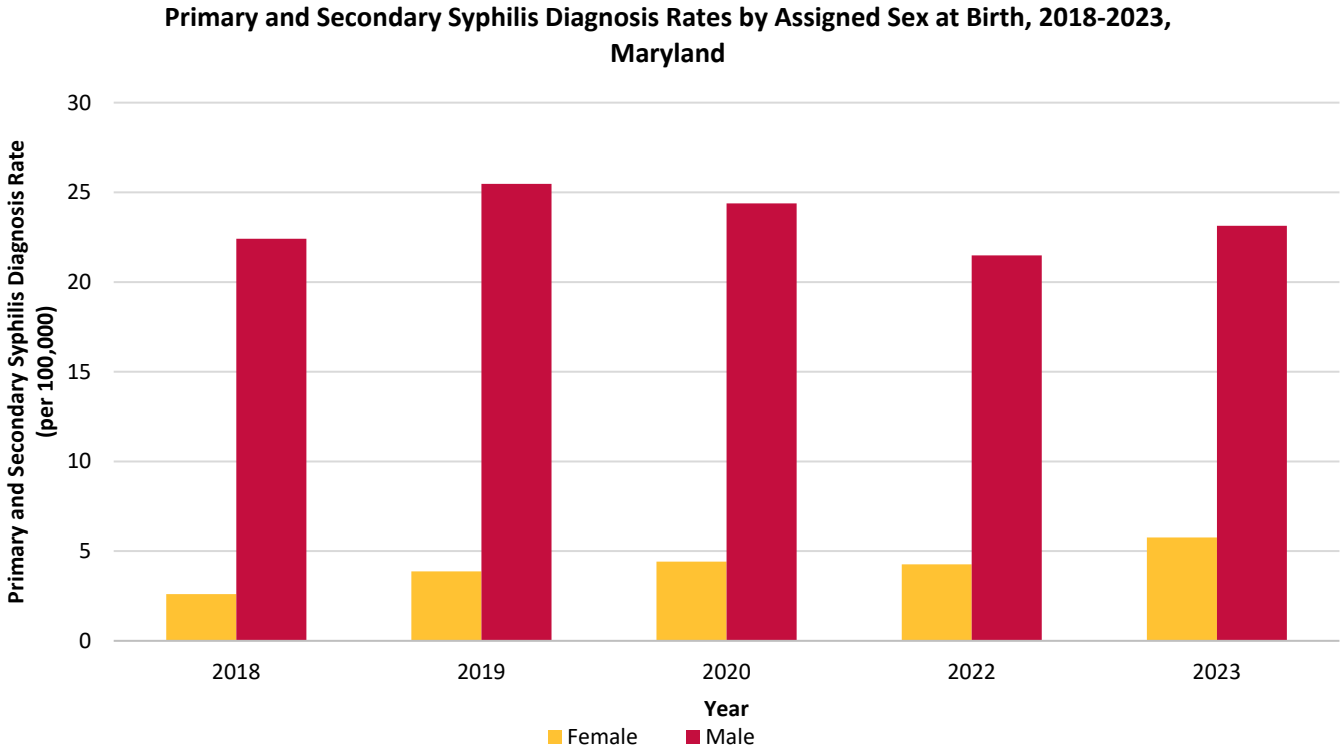
Table 17 – Trends in Primary and Secondary Syphilis Diagnoses by Jurisdiction of Residence at Diagnosis, 2018-2023, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Primary and Secondary Syphilis Diagnoses											
	2018		2019		2020		2021		2022		2023	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Allegany	1	1.4	4	5.7	1	1.5	--	--	0	0.0	2	3.0
Anne Arundel	27	4.7	39	6.7	32	5.4	--	--	54	9.1	65	10.9
Baltimore City	277	45.9	312	52.5	314	53.8	--	--	307	53.9	283	50.1
Baltimore	103	12.4	103	12.4	148	17.3	--	--	121	14.3	164	19.4
Calvert	3	3.3	1	1.1	2	2.2	--	--	1	1.1	3	3.2
Caroline	1	3.0	1	3.0	1	3.0	--	--	3	9.0	2	6.0
Carroll	7	4.2	9	5.3	3	1.7	--	--	6	3.4	7	4.0
Cecil	2	1.9	4	3.9	13	12.5	--	--	3	2.9	5	4.7
Charles	14	8.6	14	8.6	21	12.6	--	--	9	5.3	19	11.0
Dorchester	1	3.1	1	3.1	4	12.3	--	--	3	9.2	1	3.0
Frederick	13	5.1	23	8.8	13	4.8	--	--	15	5.2	8	2.7
Garrett	0	0.0	1	3.4	0	0.0	--	--	0	0.0	0	0.0
Harford	5	2.0	7	2.7	15	5.7	--	--	13	4.9	24	9.1
Howard	25	7.7	22	6.7	16	4.8	--	--	24	7.2	24	7.1
Kent	0	0.0	0	0.0	1	5.2	--	--	0	0.0	0	0.0
Montgomery	66	6.3	89	8.5	76	7.2	--	--	90	8.5	65	6.1
Prince George's	153	16.8	169	18.5	163	16.9	--	--	111	11.7	147	15.5
Queen Anne's	2	4.0	1	2.0	1	2.0	--	--	1	1.9	4	7.6
Saint Mary's	5	4.4	3	2.6	6	5.3	--	--	1	0.9	1	0.9
Somerset	2	7.8	0	0.0	2	8.1	--	--	1	4.1	3	12.0
Talbot	1	2.7	1	2.7	0	0.0	--	--	0	0.0	0	0.0
Washington	22	14.6	58	38.4	37	23.9	--	--	7	4.5	26	16.7
Wicomico	5	4.8	5	4.8	2	1.9	--	--	8	7.7	17	16.2
Worcester	2	3.9	1	1.9	2	3.8	--	--	3	5.6	6	11.0
Unknown	0	--	0	--	0	--	--	--	0	--	2	--
Total	737	12.2	868	14.3	873	14.1	727	11.8	781	12.7	878	14.2

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 16 – Trends in Primary and Secondary Syphilis Diagnoses by Assigned Sex at Birth, 2018-2023, Reported through July 26, 2024



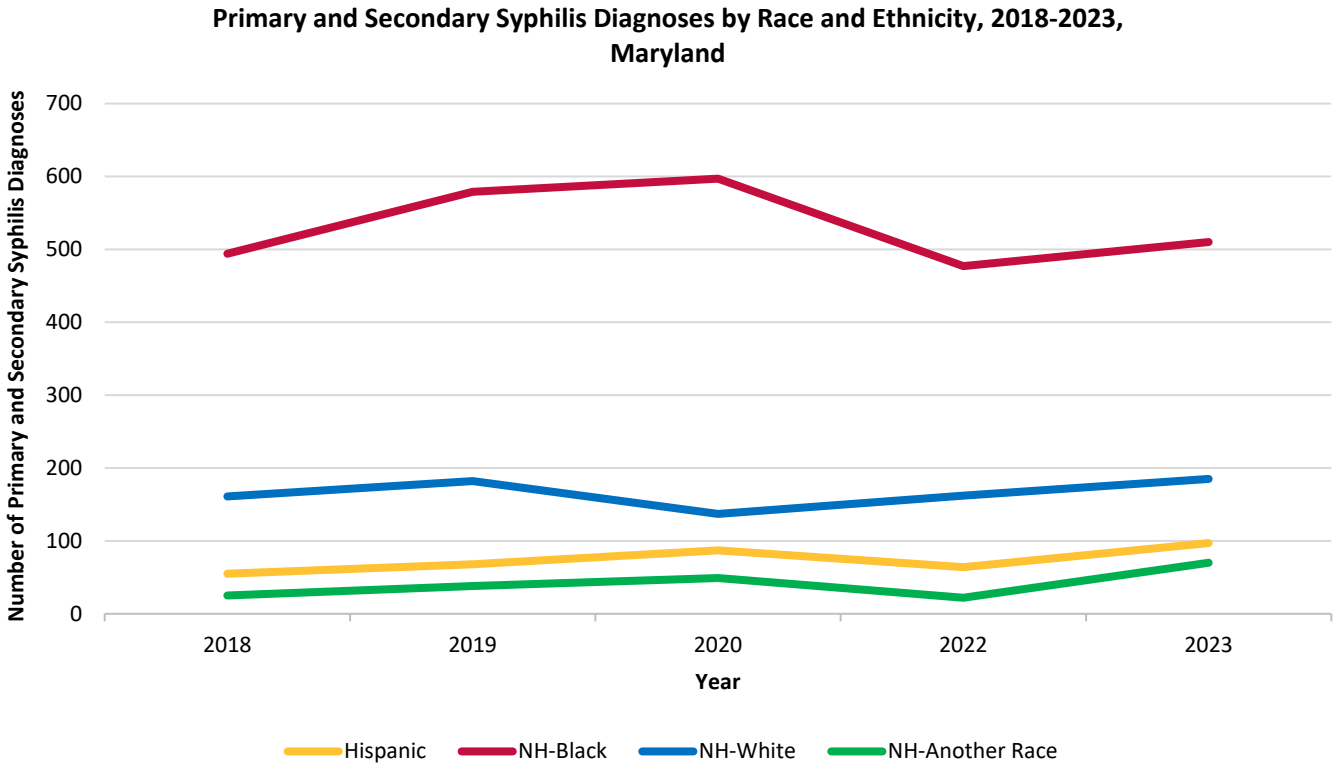


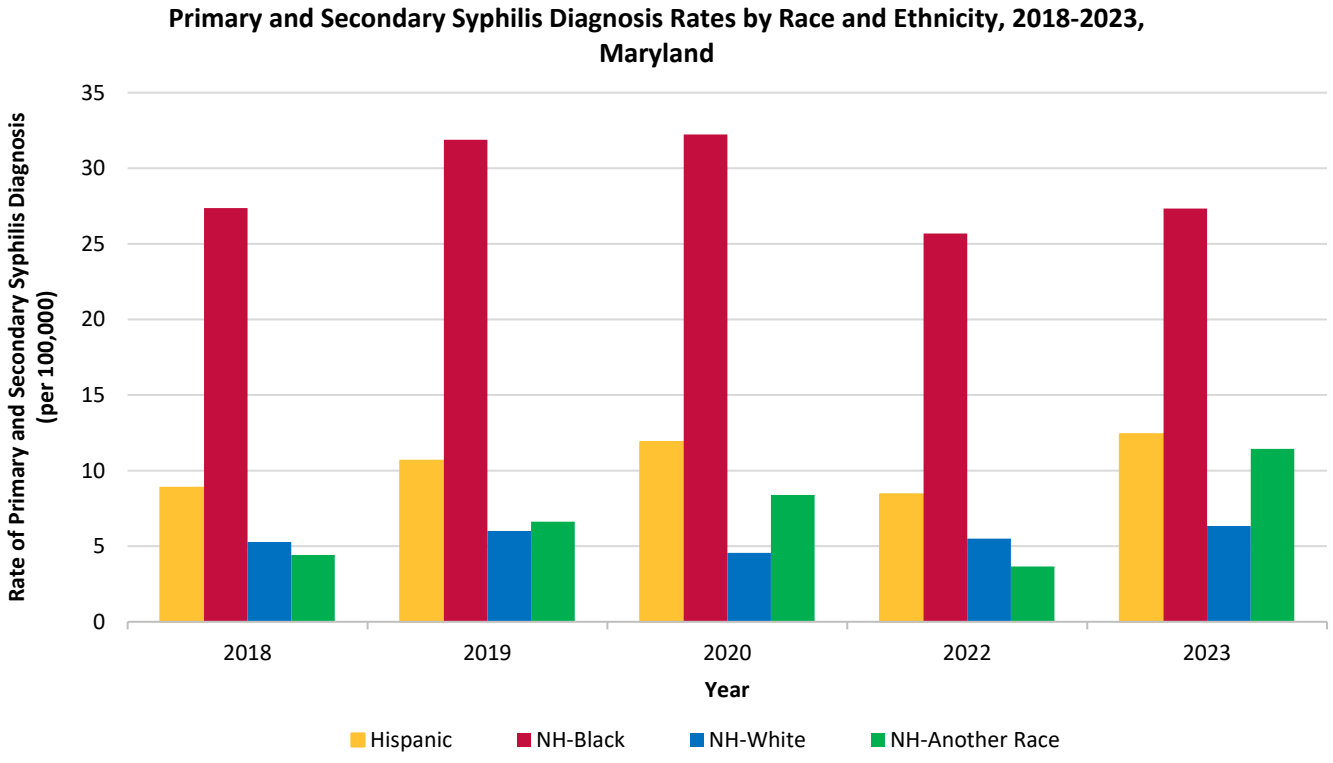
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Primary and Secondary Syphilis Diagnoses			Assigned Sex at Birth		
				Female	Male	Unknown
2018	737	Population		3,115,060	2,927,093	--
		Primary and Secondary Syphilis Diagnoses	Number	81	656	0
			Percent	11.0%	89.0%	0.0%
			Rate	2.6	22.4	--
2019	868	Population		3,122,480	2,932,474	--
		Primary and Secondary Syphilis Diagnoses	Number	121	747	0
			Percent	13.9%	86.1%	0.0%
			Rate	3.9	25.5	--
2020	873	Population		3,168,085	3,005,604	--
		Primary and Secondary Syphilis Diagnoses	Number	140	733	0
			Percent	16.0%	84.0%	0.0%
			Rate	4.4	24.4	
2021	727	Population		3,170,013	3,005,032	--
		Primary and Secondary Syphilis Diagnoses	Number	--	--	--
			Percent	--	--	--
			Rate	--	--	--
2022	781	Population		3,166,110	2,997,871	--
		Primary and Secondary Syphilis Diagnoses	Number	135	644	2
			Percent	17.3%	82.5%	0.3%
			Rate	4.3	21.5	--
2023	878	Population		3,175,850	3,004,403	--
		Primary and Secondary Syphilis Diagnoses	Number	183	695	0
			Percent	20.8%	79.2%	0.0%
			Rate	5.8	23.1	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 17 – Trends in Primary and Secondary Syphilis Diagnoses by Race and Ethnicity, 2018-2023, Reported through July 26, 2024





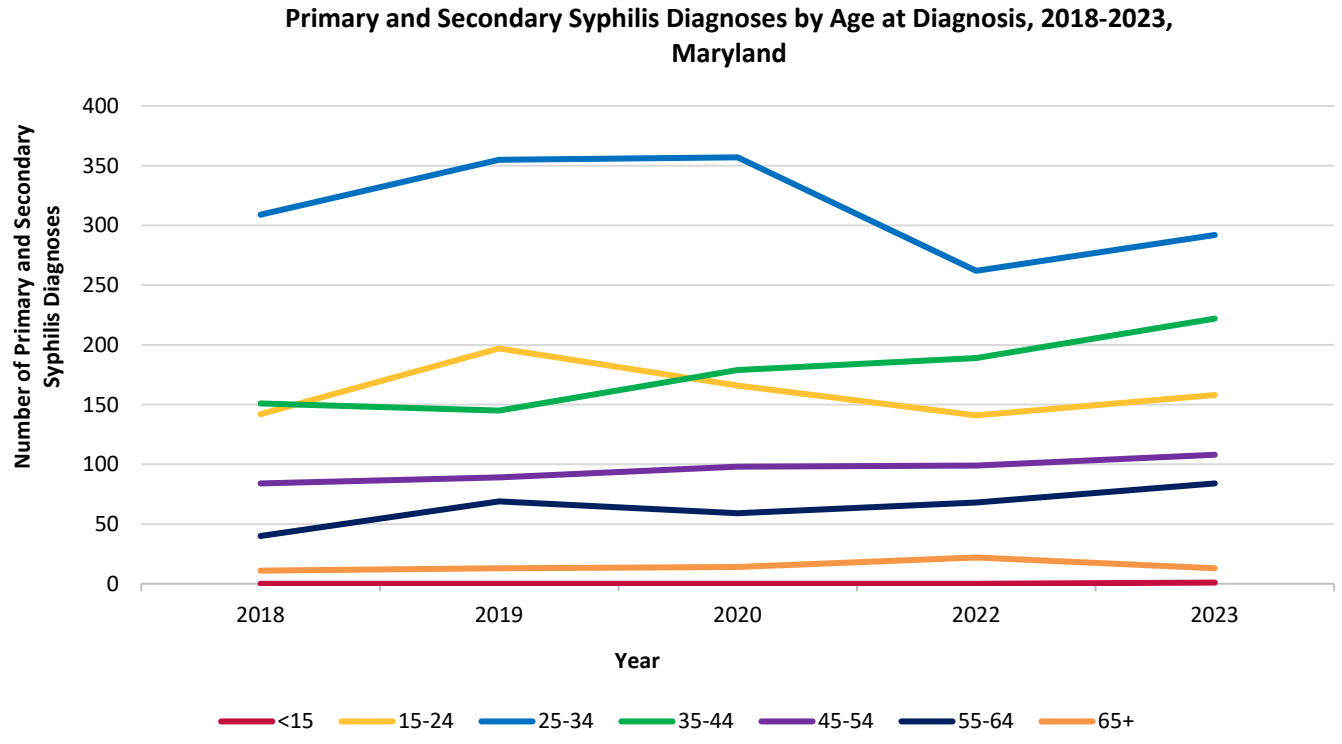
Non-Hispanic Asian, Non-Hispanic American Indian or Alaska Native, Non-Hispanic Native Hawaiian or Another Pacific Islander, and Non-Hispanic Multiracial or Another Race are combined in the above figures.

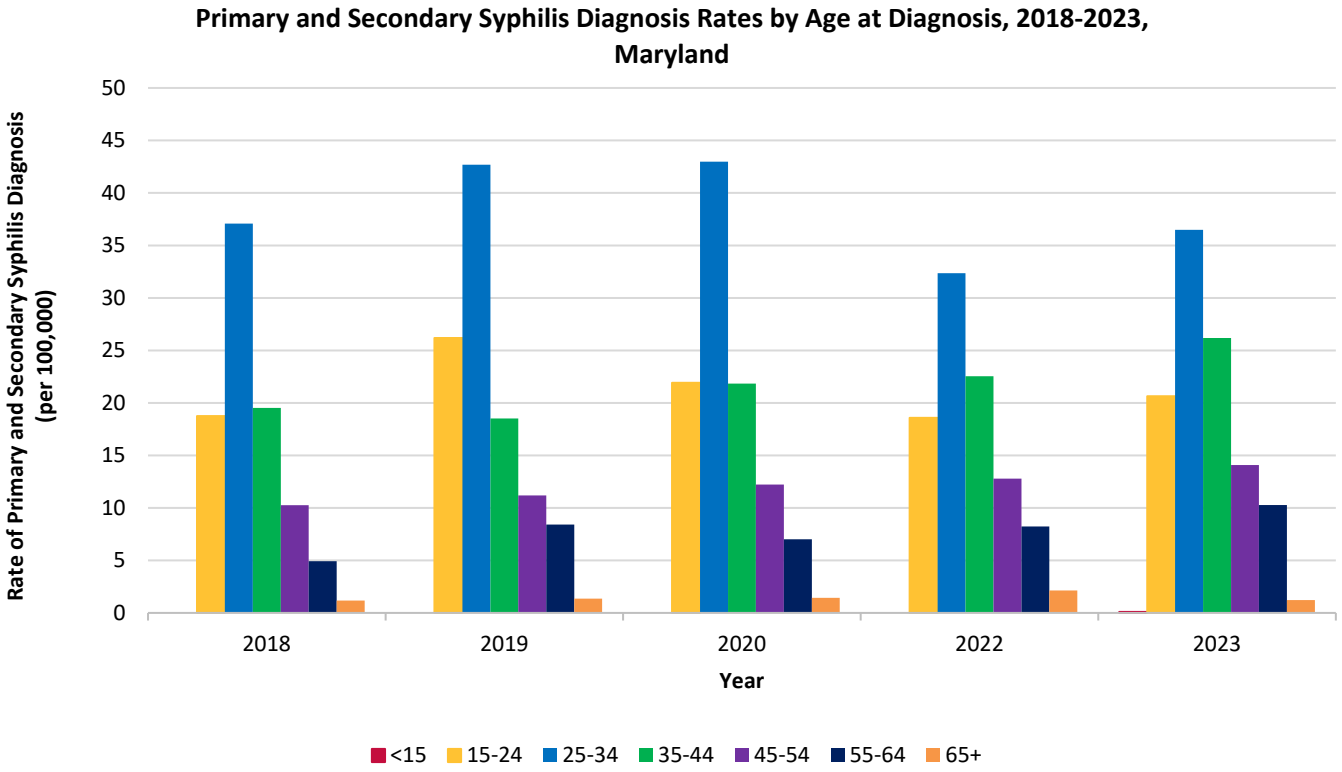
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Primary and Secondary Syphilis Diagnoses			Race and Ethnicity							
				Hispanic	Non-Hispanic American Indian or Alaska Native	Non-Hispanic Asian	Non-Hispanic Black	Non-Hispanic Multiracial or Another Race or Ethnicity	Non-Hispanic Native Hawaiian or Another Pacific Islander	Non-Hispanic White	Unknown
2018	737	Population		620,598	14,656	397,624	1,805,077	149,790	2,951	3,051,457	--
		Primary and Secondary Syphilis Diagnoses	Number	55	2	10	494	12	1	161	2
			Percent	7.5%	0.3%	1.4%	67.0%	1.6%	0.1%	21.8%	0.3%
			Rate	8.9	13.6	2.5	27.4	8.0	33.9	5.3	--
2019	868	Population		638,293	14,675	402,888	1,816,071	153,138	2,944	3,026,945	--
		Primary and Secondary Syphilis Diagnoses	Number	68	1	27	579	9	1	182	1
			Percent	7.8%	0.1%	3.1%	66.7%	1.0%	0.1%	21.0%	0.1%
			Rate	10.7	6.8	6.7	31.9	5.9	34.0	6.0	--
2020	873	Population		731,359	14,711	409,473	1,851,700	157,214	2,996	3,006,236	--
		Primary and Secondary Syphilis Diagnoses	Number	87	1	20	597	24	4	137	3
			Percent	10.0%	0.1%	2.3%	68.4%	2.7%	0.5%	15.7%	0.3%
			Rate	11.9	6.8	4.9	32.2	15.3	133.5	4.6	
2021	727	Population		743,580	14,582	414,577	1,856,924	160,336	3,004	2,982,042	--
		Primary and Secondary Syphilis Diagnoses	Number	--	--	--	--	--	--	--	--
			Percent	--	--	--	--	--	--	--	--
			Rate	--	--	--	--	--	--	--	--
2022	781	Population		759,452	14,465	419,536	1,857,381	163,656	3,012	2,946,479	--
		Primary and Secondary Syphilis Diagnoses	Number	64	8	14	477	0	0	162	56
			Percent	8.2%	1.0%	1.8%	61.1%	0.0%	0.0%	20.7%	7.2%
			Rate	8.4	55.3	3.3	25.7	0.0	0.0	5.5	--
2023	878	Population		781,273	14,419	427,218	1,865,398	167,535	3,040	2,921,370	--
		Primary and Secondary Syphilis Diagnoses	Number	97	2	13	510	55	0	185	16
			Percent	11.0%	0.2%	1.5%	58.1%	6.3%	0.0%	21.1%	1.8%
			Rate	12.4	13.9	3.0	27.3	32.8	0.0	6.3	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Figure 18 – Trends in Primary and Secondary Syphilis Diagnoses by Age at Diagnosis, 2018-2023, Reported through July 26, 2024





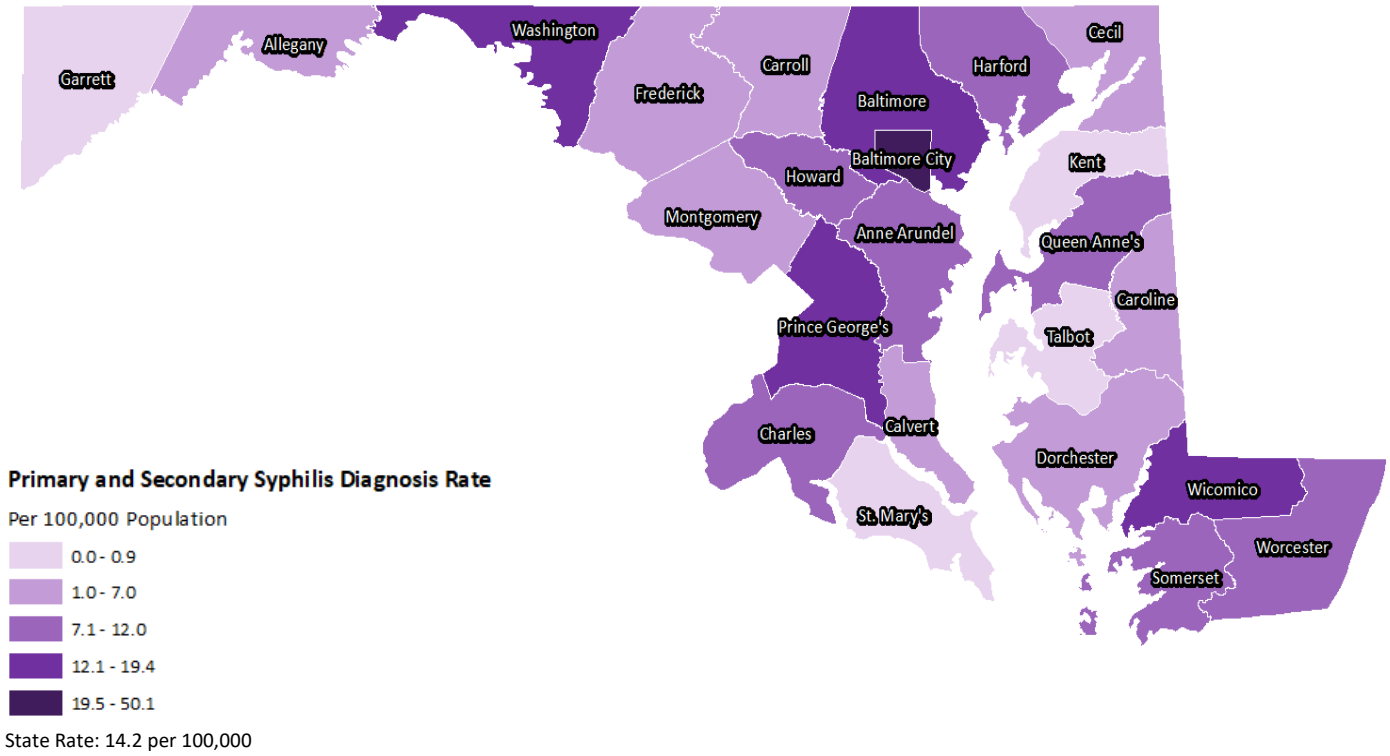
Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Year of Diagnosis	Number of Primary and Secondary Syphilis Diagnoses			Age at Diagnosis										
				<15	15-19	20-24	25-29	30-34	35-39	40-44	45-54	55-64	65+	Unknown
2018	737	Population		1,114,857	381,315	375,877	417,022	416,303	407,285	366,192	818,963	812,830	931,509	--
		Primary and Secondary Syphilis Diagnoses	Number	0	30	112	177	132	87	64	84	40	11	0
			Percent	0.0%	4.1%	15.2%	24.0%	17.9%	11.8%	8.7%	11.4%	5.4%	1.5%	0.0%
			Rate	0.0	7.9	29.8	42.4	31.7	21.4	17.5	10.3	4.9	1.2	--
2019	868	Population		1,112,990	380,590	371,722	413,011	418,662	411,204	371,921	795,426	819,177	960,251	--
		Primary and Secondary Syphilis Diagnoses	Number	0	43	154	200	155	93	52	89	69	13	0
			Percent	0.0%	5.0%	17.7%	23.0%	17.9%	10.7%	6.0%	10.3%	7.9%	1.5%	0.0%
			Rate	0.0	11.3	41.4	48.4	37.0	22.6	14.0	11.2	8.4	1.4	--
2020	873	Population		1,150,967	389,957	367,650	402,219	428,307	426,014	393,335	801,369	840,371	973,500	--
		Primary and Secondary Syphilis Diagnoses	Number	0	39	127	177	180	108	71	98	59	14	0
			Percent	0.0%	4.5%	14.5%	20.3%	20.6%	12.4%	8.1%	11.2%	6.8%	1.6%	0.0%
			Rate	0.0	10.0	34.5	44.0	42.0	25.4	18.1	12.2	7.0	1.4	--
2021	727	Population		1,136,702	391,294	369,420	394,841	428,803	427,555	403,208	785,163	836,690	1,001,369	--
		Primary and Secondary Syphilis Diagnoses	Number	--	--	--	--	--	--	--	--	--	--	--
			Percent	--	--	--	--	--	--	--	--	--	--	--
			Rate	--	--	--	--	--	--	--	--	--	--	--
2022	781	Population		1,124,972	392,978	366,027	384,556	425,294	427,922	410,565	773,669	826,328	1,031,670	--
		Primary and Secondary Syphilis Diagnoses	Number	0	27	114	114	148	125	64	99	68	22	0
			Percent	0.0%	3.5%	14.6%	14.6%	19.0%	16.0%	8.2%	12.7%	8.7%	2.8%	0.0%
			Rate	0.0	6.9	31.1	29.6	34.8	29.2	15.6	12.8	8.2	2.1	--
2023	878	Population		1,116,212	398,626	366,688	377,782	422,664	429,568	418,024	767,120	817,185	1,066,384	--
		Primary and Secondary Syphilis Diagnoses	Number	1	28	130	142	150	148	74	108	84	13	0
			Percent	0.1%	3.2%	14.8%	16.2%	17.1%	16.9%	8.4%	12.3%	9.6%	1.5%	0.0%
			Rate	0.1	7.0	35.5	37.6	35.5	34.5	17.7	14.1	10.3	1.2	--

Note. Due to a Network Security Incident in 2021, only the total number of diagnoses at the state-level is available for 2021.

Section 7b – Primary and Secondary Syphilis Diagnoses, 2023, Maryland

Primary and Secondary Syphilis Diagnosis Rates by Jurisdiction, 2023



- The rate of primary and secondary syphilis diagnoses in Maryland is **14.2 per 100,000.**
  Jurisdictions with the highest rate of primary and secondary syphilis diagnoses in Maryland include:
  - Baltimore City: 50.1 per 100,000
  - Baltimore County: 19.4 per 100,000
  - Washington County: 16.7 per 100,000
  - Wicomico County: 16.2 per 100,000
  - Prince George's County: 15.5 per 100,000

Table 18 – Primary and Secondary Syphilis Diagnoses during 2023 by Jurisdiction of Residence at Diagnosis, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Primary and Secondary Syphilis Diagnoses			
	Population	No.	% of Total	Rate
Allegany	67,273	2	0.2%	3.0
Anne Arundel	594,582	65	7.4%	10.9
Baltimore City	565,239	283	32.2%	50.1
Baltimore	844,703	164	18.7%	19.4
Calvert	94,728	3	0.3%	3.2
Caroline	33,593	2	0.2%	6.0
Carroll	176,639	7	0.8%	4.0
Cecil	105,672	5	0.6%	4.7
Charles	171,973	19	2.2%	11.0
Dorchester	32,879	1	0.1%	3.0
Frederick	293,391	8	0.9%	2.7
Garrett	28,423	0	0.0%	0.0
Harford	264,644	24	2.7%	9.1
Howard	336,001	24	2.7%	7.1
Kent	19,303	0	0.0%	0.0
Montgomery	1,058,474	65	7.4%	6.1
Prince George's	947,430	147	16.7%	15.5
Queen Anne's	52,508	4	0.5%	7.6
Saint Mary's	115,281	1	0.1%	0.9
Somerset	24,910	3	0.3%	12.0
Talbot	37,823	0	0.0%	0.0
Washington	155,813	26	3.0%	16.7
Wicomico	104,800	17	1.9%	16.2
Worcester	54,171	6	0.7%	11.1
Unknown	--	2	0.2%	--
Total	6,180,253	878	100.0%	14.2

Table 19 – Primary and Secondary Syphilis Diagnoses during 2023 by Age at Diagnosis, Assigned Sex at Birth, and Race and Ethnicity, Reported through July 26, 2024

Demographic Characteristics	Population	Primary and Secondary Syphilis Diagnoses		
		No.	% of Total	Rate
Age at Diagnosis				
<15	1,116,212	1	0.1%	0.1
15-19	398,626	28	3.2%	7.0
20-24	366,688	130	14.8%	35.5
25-29	377,782	142	16.2%	37.6
30-34	422,664	150	17.1%	35.5
35-39	429,568	148	16.9%	34.5
40-44	418,024	74	8.4%	17.7
45-54	767,120	108	12.3%	14.1
55-64	817,185	84	9.6%	10.3
65+	1,066,384	13	1.5%	1.2
Unknown	--	0	0.0%	--
Assigned Sex at Birth				
Female	3,175,850	183	20.8%	5.8
Male	3,004,403	695	79.2%	23.1
Unknown	--	0	0.0%	--
Race and Ethnicity				
Hispanic	781,273	97	11.0%	12.4
Non-Hispanic	5,398,980	765	87.1%	14.2
American Indian or Alaska Native, only	14,419	2	0.2%	13.9
Asian, only	427,218	13	1.5%	3.0
Black, only	1,865,398	510	58.1%	27.3
Multiracial or Another Race	167,535	55	6.3%	32.8
Native Hawaiian or Another Pacific Islander, only	3,040	0	0.0%	0.0
White, only	2,921,370	185	21.1%	6.3
Unknown	--	16	1.8%	--
Total	6,180,253	878	100.0%	14.2

Table 20 – Primary and Secondary Syphilis Diagnoses during 2023 by Assigned Sex at Birth and Race and Ethnicity, Reported through July 26, 2024

Race and Ethnicity	Assigned Sex at Birth							
	Female				Male			
	Population	Primary and Secondary Syphilis Diagnoses			Population	Primary and Secondary Syphilis Diagnoses		
		No.	% of Total	Rate		No.	% of Total	Rate
Hispanic	379,092	12	6.6%	3.2	402,181	85	12.2%	21.1
Non-Hispanic	2,796,758	169	92.3%	6.0	2,602,222	596	46.2%	22.9
American Indian or Alaska Native, only	7,415	1	0.5%	13.5	7,004	1	0.1%	14.3
Asian, only	223,955	0	0.0%	0.0	203,263	13	1.9%	6.4
Black, only	995,077	96	52.5%	9.6	870,321	414	59.6%	47.6
Multiracial or Another Race	86,248	12	6.6%	13.9	81,287	43	6.2%	52.9
Native Hawaiian or Another Pacific Islander, only	1,630	0	0.0%	0.0	1,410	0	0.0%	0.0
White, only	1,482,433	60	32.8%	4.0	1,438,937	125	18.0%	8.7
Unknown	--	2	1.1%	--	--	14	2.0%	--
Total	3,175,850	183	100.0%	5.8	3,004,403	695	100.0%	23.1

Table 21 – Primary and Secondary Syphilis Diagnoses during 2023 by Assigned Sex at Birth and Age at Diagnosis, Reported through July 26, 2024

Age at Diagnosis	Assigned Sex at Birth							
	Female				Male			
	Population	Primary and Secondary Syphilis Diagnoses			Population	Primary and Secondary Syphilis Diagnoses		
		No.	% of Total	Rate		No.	% of Total	Rate
<15	546,285	0	0.0%	0.0	569,927	1	0.1%	0.2
15-19	195,325	13	7.1%	6.7	203,301	15	2.2%	7.4
20-24	181,895	31	16.9%	17.0	184,793	99	14.2%	53.6
25-29	190,189	40	21.9%	21.0	187,593	102	14.7%	54.4
30-34	213,928	27	14.8%	12.6	208,736	123	17.7%	58.9
35-39	218,850	32	17.5%	14.6	210,718	116	16.7%	55.0
40-44	212,532	10	5.5%	4.7	205,492	64	9.2%	31.1
45-54	393,774	20	10.9%	5.1	373,346	88	12.7%	23.6
55-64	424,771	10	5.5%	2.4	392,414	74	10.6%	18.9
65+	598,301	0	0.0%	0.0	468,083	13	1.9%	2.8
Unknown	--	0	0.0%	--	--	0	0.0%	--
Total	3,175,850	183	100.0%	5.8	3,004,403	695	100.0%	23.1

Section VIII – Congenital Syphilis

Congenital syphilis is when syphilis is passed from a birthing person to their infant and can occur at any stage of syphilis. Syphilis infections can be transmitted to unborn babies if a pregnant person is not treated at least 30 days prior to delivery. Congenital syphilis can cause serious health problems for the baby.

In 2023, there were 69 congenital syphilis diagnoses in Maryland. The diagnosis rate was 105.2 per 100,000 live births.

In 2023, people most affected by congenital syphilis include:

Geographic Region

The highest number (27), proportion (39.1%), and rate (372.9 per 100,000 live births) of congenital syphilis diagnoses were among **Baltimore City** residents.

Assigned Sex at Birth

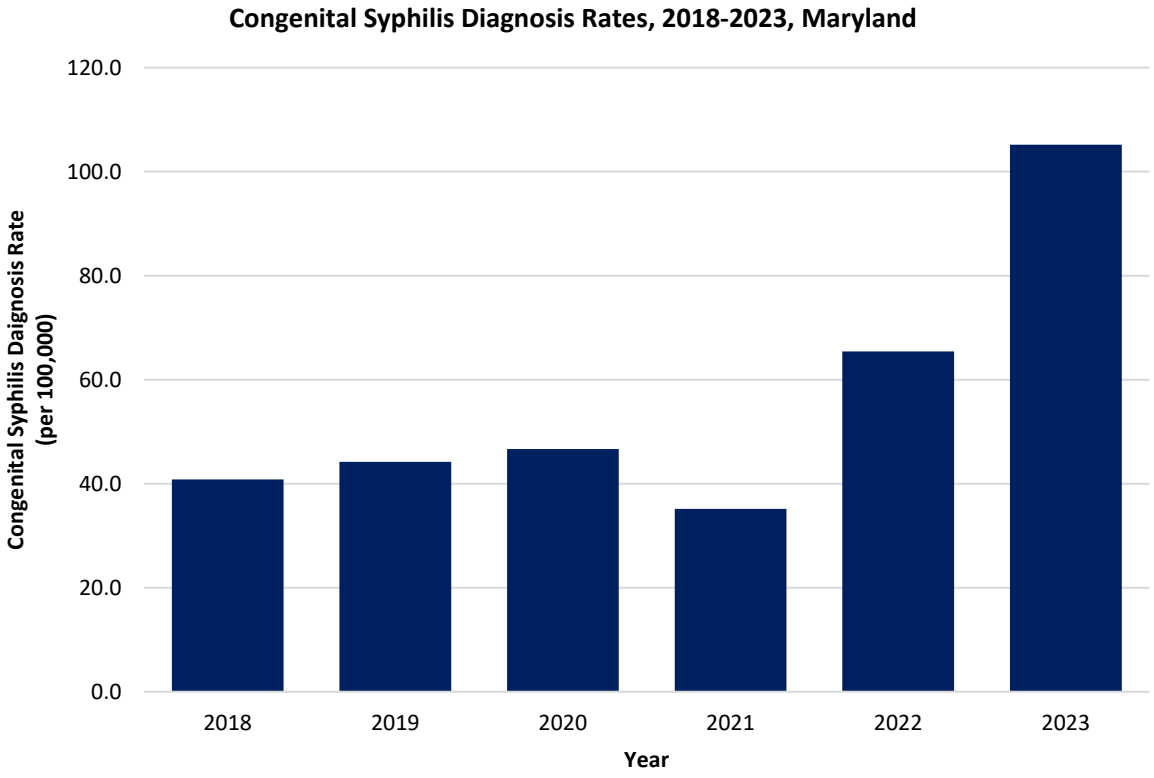
People assigned **male sex at birth** accounted for the highest number (36), proportion (52.2%), and rate (106.6 per 100,000 live births) of congenital syphilis diagnoses.

Race and Ethnicity

Non-Hispanic Black people accounted for the highest number (40), proportion (58.0%), and rate (197.0 per 100,000 live births) of congenital syphilis diagnoses.

Section 8a – Trends in Congenital Syphilis Diagnoses, 2018-2023, Maryland

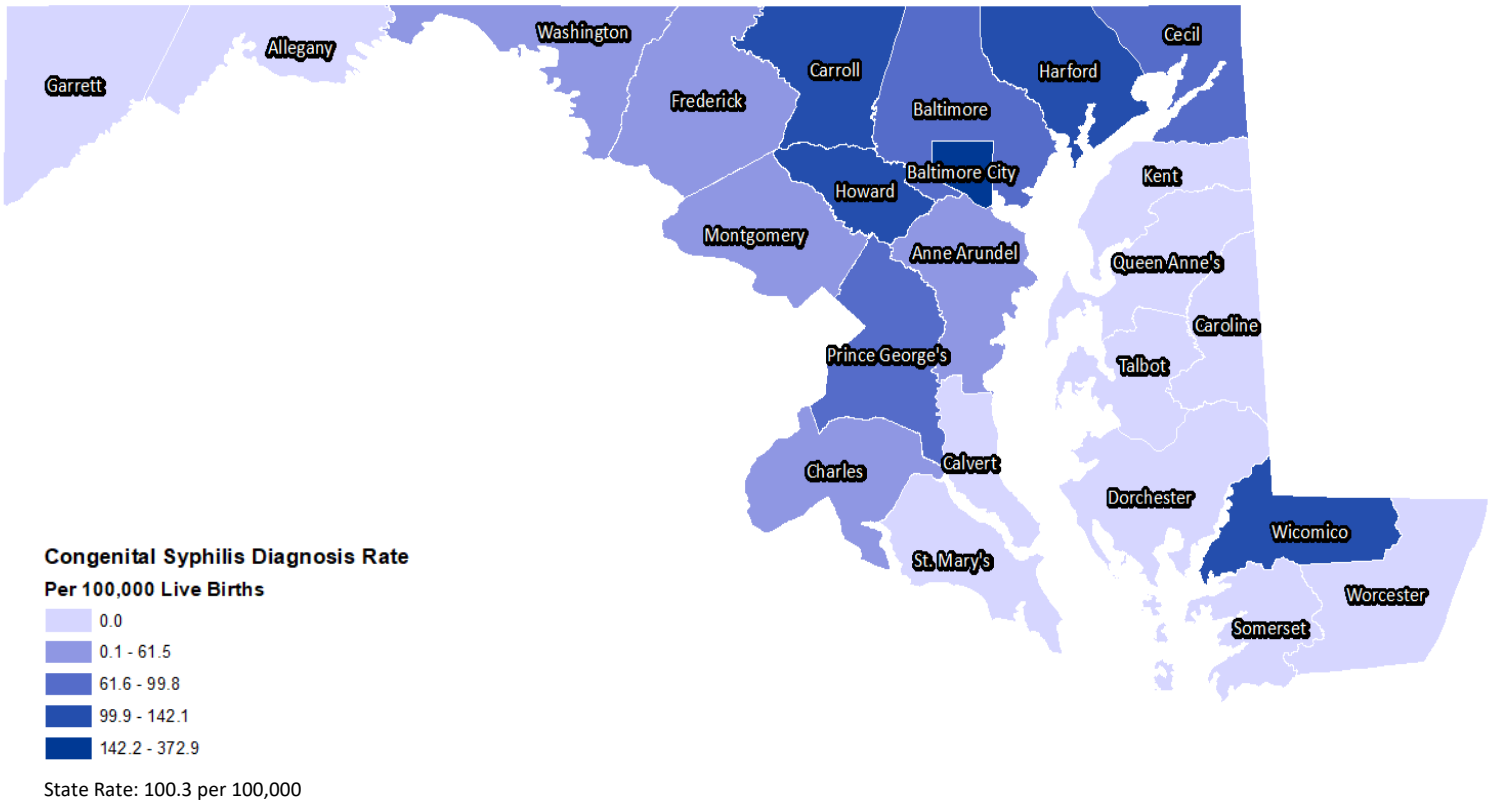
Figure 19 – Trends in Congenital Syphilis Diagnoses, 2018-2023, Reported through July 26, 2024



Year of Diagnosis	Live Births	Congenital Syphilis Diagnoses	
		Number	Rate
2018	71,037	29	40.8
2019	70,130	31	44.2
2020	68,546	32	46.7
2021	68,266	24	35.2
2022	68,765	45	65.4
2023	65,594	69	105.2

Section 8b – Congenital Syphilis Diagnoses, 2023, Maryland

Congenital Syphilis Diagnosis Rates by Jurisdiction, 2023



State Rate: 100.3 per 100,000

- The rate of congenital syphilis diagnoses in Maryland is **100.3 per 100,000 live births.** Jurisdictions with the highest rate of congenital syphilis diagnoses in Maryland include:
  - Baltimore City: 372.9 per 100,000 live births
  - Wicomico County: 142.1 per 100,000 live births
  - Howard County: 125.8 per 100,000 live births
  - Harford County: 113.3 per 100,000 live births
  - Carroll County: 111.5 per 100,000 live births

Table 22 – Congenital Syphilis Diagnoses during 2023 by Jurisdiction of Residence at Diagnosis, Reported through July 26, 2024

Jurisdiction of Residence at Diagnosis	Congenital Syphilis Diagnoses			
	Live Births*	No.	% of Total	Rate
Allegany	582	0	0.0%	0.0
Anne Arundel	6,920	3	4.3%	43.4
Baltimore City	7,241	27	39.1%	372.9
Baltimore	9,297	8	11.6%	86.0
Calvert	979	0	0.0%	0.0
Caroline	488	0	0.0%	0.0
Carroll	1,793	2	2.9%	111.5
Cecil	1,131	1	1.4%	88.4
Charles	1,840	1	1.4%	54.3
Dorchester	349	0	0.0%	0.0
Frederick	3,102	1	1.4%	32.2
Garrett	271	0	0.0%	0.0
Harford	2,647	3	4.3%	113.3
Howard	3,180	4	5.8%	125.8
Kent	159	0	0.0%	0.0
Montgomery	11,738	5	7.2%	42.6
Prince George's	11,015	11	15.9%	99.9
Queen Anne's	528	0	0.0%	0.0
Saint Mary's	1,425	0	0.0%	0.0
Somerset	264	0	0.0%	0.0
Talbot	343	0	0.0%	0.0
Washington	1,624	1	1.4%	61.6
Wicomico	1,407	2	2.9%	142.1
Worcester	442	0	0.0%	0.0
Unknown	--	0	0.0%	--
Total	65,594	69	100.0%	105.2

Note. *The sum of live births will not equal the total. Live births by jurisdiction are for 2022; however, the total number of live births is for 2023, as live births by jurisdiction for 2023 have not been released yet.

Table 23 – Congenital Syphilis Diagnoses during 2023 by Assigned Sex at Birth and Race and Ethnicity, Reported through July 26, 2024

Demographic Characteristics	Live Births	Congenital Syphilis Diagnoses		
		No.	% of Total	Rate
Assigned Sex at Birth				
Female	33,763	36	52.2%	106.6
Male	34,999	33	47.8%	94.3
Unknown	3	0	0.0%	--
Race and Ethnicity				
Hispanic	14,372	8	11.6%	55.7
Non-Hispanic	53,935	59	85.5%	109.4
American Indian or Alaska Native, only	74	0	0.0%	0.0
Asian, Native Hawaiian, or Another Pacific Islander, only	4,542	0	0.0%	0.0
Black, only	20,301	40	58.0%	197.0
Multiracial or Another Race	1,855	3	4.3%	161.7
White, only	27,163	16	23.2%	58.9
Unknown	--	2	2.9%	--
Total	65,594	69	100.0%	105.2

Note. Diagnoses for Asian people, Native Hawaiian people, and other Pacific Islanders have been combined to align with the aggregation of live birth data. *The sum of live births will not equal the total. Live births by jurisdiction are for 2022; however, the total number of live births is for 2023, as live births by demographics for 2023 have not been released yet.

Glossary of Terms

Age: Age group at time of STI diagnosis.

Sexually Acquired Syphilis Diagnoses: Reported primary, secondary, early non-primary/non-secondary, late, and duration unknown syphilis diagnoses during the specified year.

Chlamydia Diagnoses: Reported chlamydia diagnoses during the specified year.

Congenital Syphilis Diagnoses: Reported congenital syphilis diagnoses during the specified year.

Female: A person whose assigned sex at birth is female.

Gonorrhea Diagnoses: Reported gonorrhea diagnoses during the specified year.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the time of STI diagnosis.

Live births: Babies born alive in the general population.

Male: A person whose assigned sex at birth is male.

People of Childbearing Age: People of childbearing age (13-49 years old) with childbearing potential.

Population: Population estimate for July 1 of the specified year.

Primary and Secondary Syphilis Diagnoses: Reported primary and secondary syphilis diagnoses during the specified year.

Rate: Number of people living with diagnosed with the specified STI, divided by the population, and multiplied by 100,000.

STI: A sexually transmitted infection (STI) is a virus, bacteria, fungus, or parasite people can get through sexual contact.

STD: A sexually transmitted disease (STD) develops because of an STI, and the term implies that the infection has led to some symptom of disease.

Total Syphilis Diagnoses: Reported primary, secondary, early non-primary/non-secondary, late, duration unknown, and congenital syphilis diagnoses during the specified year.