

# Hamilton County Chlamydia and Gonorrhea Quarterly Report

2024 1st Quarter

## Hamilton County Public Health Division of Epidemiology and Assessment

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## Chlamydia and Gonorrhea Surveillance Summary

This quarterly report was created as a surveillance effort to help track and prevent new cases of chlamydia and gonorrhea among Hamilton County residents. Chlamydia and gonorrhea are Class B reportable diseases. When an individual tests positive for chlamydia and/or gonorrhea, the results are sent to the Ohio Disease Reporting System (ODRS). HCPH follows up with certain gonorrhea cases, including but not limited to, disseminated gonorrhea.

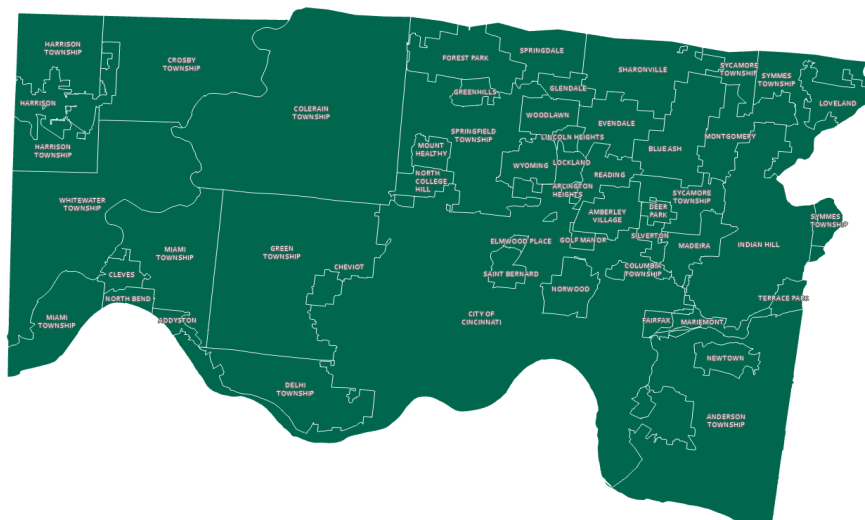
This quarterly report features total case counts and demographic data from 2020 through the 1st quarter of 2024. The purpose of collecting and distributing demographic data is to inform programming, community partners, and stakeholders so the best effort can be made to diagnose, prevent, and treat chlamydia and gonorrhea infections in our community. Data surveillance helps identify disparities in reported chlamydia and gonorrhea cases, allowing for appropriate interventions to the populations most affected. These data provide a snapshot of chlamydia and gonorrhea surveillance in the region, but do not always tell the entire story. To fully understand the situation, community voices, stakeholders, and other sources should be considered.

These data are provisional and subject to change as there is a lag time in reporting and cases may be added or removed. Ohio Department of Health specifically disclaims responsibility for analyses, interpretations, or conclusions.

Data for this report was downloaded from Ohio Disease Reporting System (ODRS) on 6/5/2024.

Email [HCPH.ID@HAMILTON-CO.ORG](mailto:HCPH.ID@HAMILTON-CO.ORG) with any questions regarding this report.

For HIV or other STI testing information please call the HCPH Clinic at 513-946-7610



## Overview of Chlamydia in Hamilton County

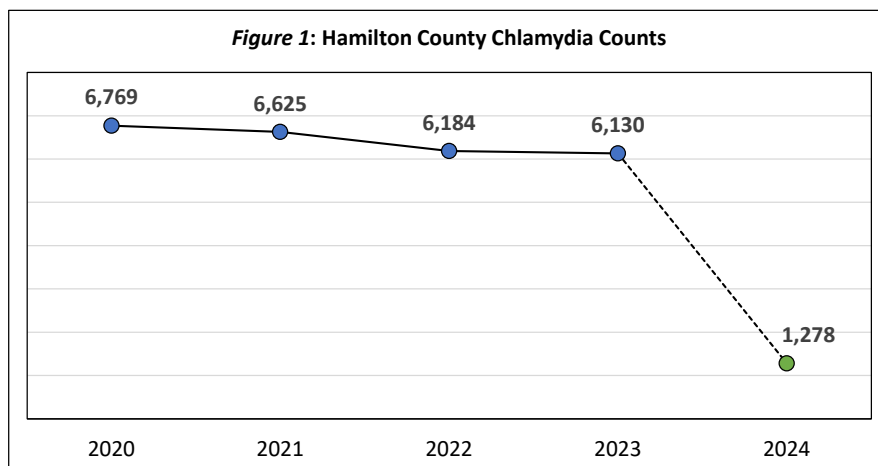
**Table 1. Hamilton County Total Chlamydia Cases by Year**

2020	2021	2022	2023	2024
6,769	6,625	6,184	6,130	1,278*

\*Q1 Only

**Table 1** shows total newly reported chlamydia cases in Hamilton County from 2020 through the 1st quarter of 2024. The most recent data are highlighted in light green.

**Figure 1** is a line graph of chlamydia cases from 2020 through the 1st quarter of 2024. The dotted line signifies that 2024 data is not yet complete.



**Table 2** is a comparison of the 1st quarters of 2023 and 2024. There were **24.6% fewer** new chlamydia cases in Q1 2024 as compared to Q1 2023.

**Table 2. Hamilton County 1st Quarter Comparisons**

2023	2024	% Change
1,695	1,278	<b>-24.6% ↓</b>

**Table 3** displays the breakdown of new chlamydia cases from 2023 through the 1st quarter of 2024 by month. In 2023, the highest number of cases was seen in January (601 cases). In Q1 2024, the highest number of chlamydia cases have occurred in January (448 cases).

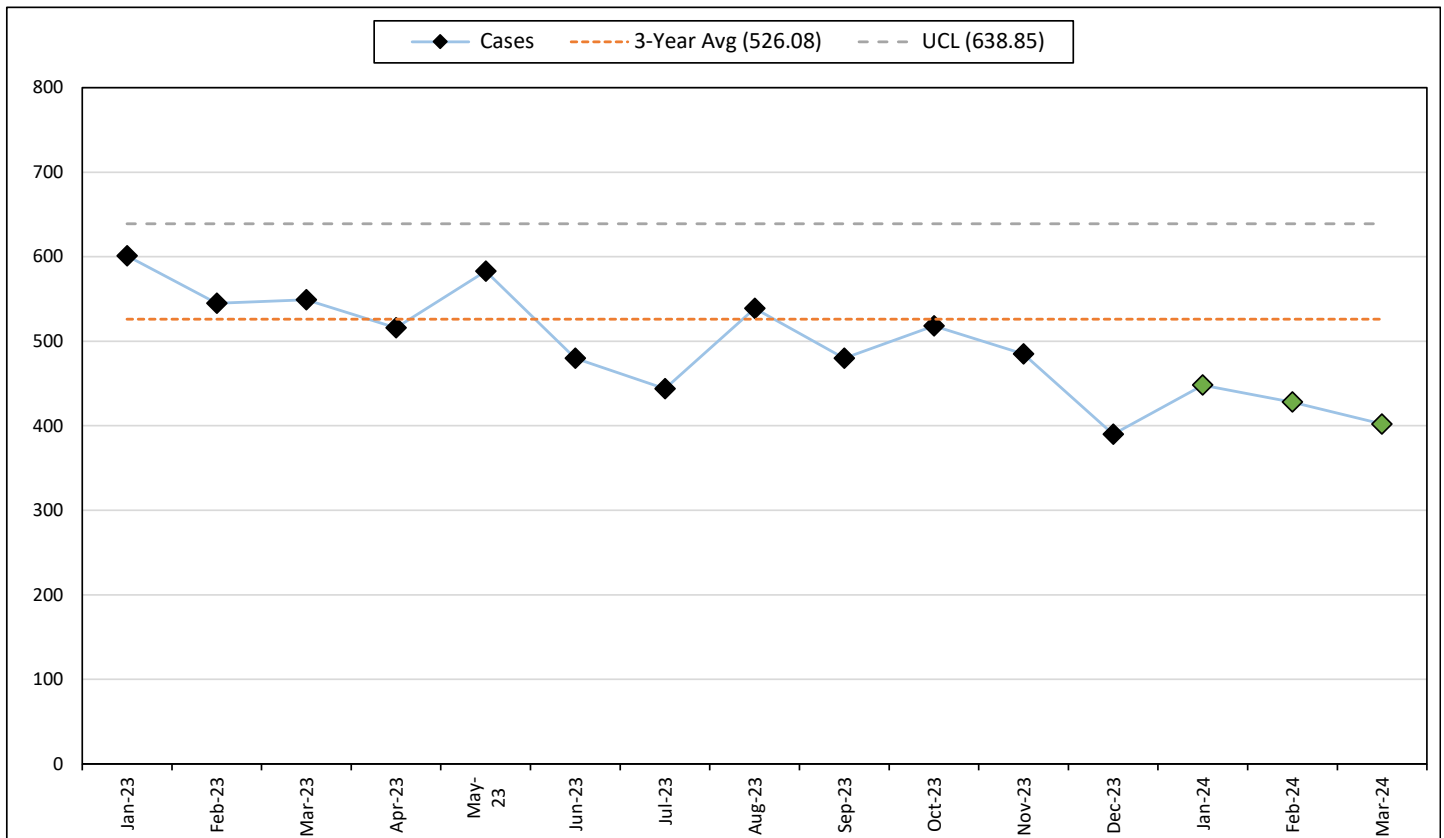
**Table 3. Hamilton County Chlamydia Cases by Month**

Month	Chlamydia Cases	
	2023	2024
January	601	448
February	545	428
March	549	402
April	516	-
May	583	-
June	480	-
July	444	-
August	539	-
September	480	-
October	518	-
November	485	-
December	390	-
<b>Total</b>	<b>6,130</b>	<b>1,278</b>

**Figure 2** shows a surveillance control chart. The dashed orange line shows the average number of new chlamydia cases per month for the past 3 years (2021, 2022, and 2023). The previous 3-year average is 526.08 new chlamydia cases per month. The dashed gray line is the upper control limit (UCL) with a value of 638.85. A single point above or near the UCL may signal anomalies that need to be investigated. The diamonds on the blue line graph show the actual number of new chlamydia infections by month. The green diamonds are the months from the most recent quarter.

**Analysis:** For Q1 2024, all points have been below the 3-year average. Consecutive points above the average may signal anomalies that need to be investigated. All points have been below the UCL which indicates no anomalies related to the UCL for this time frame. When there are only a small number of cases, it may be difficult to distinguish random fluctuations in disease incidence from true changes in the underlying risk for the disease.

**Figure 2. Hamilton County Chlamydia Control Chart**



The average is found using chlamydia counts by month for the previous 3 years. A standard deviation is calculated using the same time frame. The upper control limit is determined by multiplying the standard deviation by 2 and adding the 3-year average.

**Table 4** shows gender, race, and age group data for newly reported chlamydia cases among Hamilton County residents. Within each category, the highest number percentages are highlighted in **blue**. For 2024, newly reported chlamydia cases were primarily diagnosed in Female (69%), Black (59.9%), and 15-24 year old individuals (59.1%).

Table 4. Hamilton County Chlamydia Morbidity				
	2023		2024 1st Quarter	
	#	%	#	%
<b>Gender</b>				
Male	1,979	32.3%	396	31.0%
Female	4,151	67.7%	882	69.0%
<b>Race</b>				
Black	3,754	61.2%	765	59.9%
White	1,157	18.9%	306	23.9%
Multi	285	4.6%	3	0.2%
Other	421	6.9%	114	8.9%
Unknown	513	8.4%	90	7.0%
<b>Age Group</b>				
<14	35	0.6%	4	0.3%
15-24	3,777	61.6%	755	59.1%
25-34	1,664	27.1%	371	29.0%
35-44	424	6.9%	105	8.2%
45-54	117	1.9%	26	2.0%
55-64	42	0.7%	7	0.5%
65+	4	0.1%	4	0.3%
Unknown	67	1.1%	6	0.5%

Percentages may not total to 100 due to rounding. Percentages are based on availability of data for all cases. These data are provisional and subject to change.

## Overview of Gonorrhea in Hamilton County

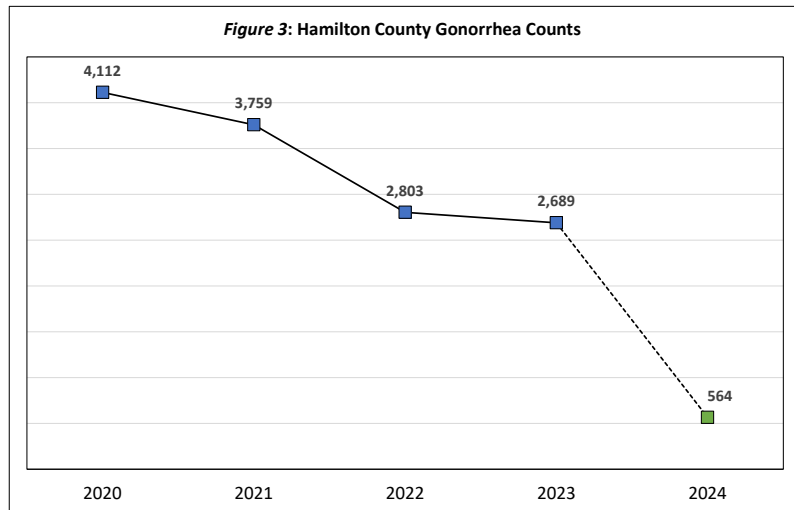
**Table 5. Hamilton County Total Gonorrhea Cases by Year**

2020	2021	2022	2023	2024
4,112	3,759	2,803	2,689	564*

\*Q1 Only

**Table 5** shows total new gonorrhea cases in Hamilton County from 2020 through the 1st quarter of 2024. The most recent data are highlighted in light green.

**Figure 3** is a line graph of gonorrhea cases from 2020 through the 1st quarter of 2024. The dotted line signifies that 2024 data is not yet complete.



**Table 6** is a comparison of the 1st quarters of 2023 and 2024. There were **17.4% fewer** new gonorrhea cases in Q1 2024 as compared to Q1 2023.

**Table 6. Hamilton County 1st Quarter Comparisons**

2023	2024	% Change
683	564	-17.4% ↓

**Table 7** displays the breakdown of new gonorrhea cases from 2023 through the 1st quarter of 2024 by month. In 2023, the highest number of cases was seen in July (262 cases). In Q1 2024, the highest number of gonorrhea cases have occurred in January (217 cases).

**Table 7. Hamilton County Gonorrhea Cases by Month**

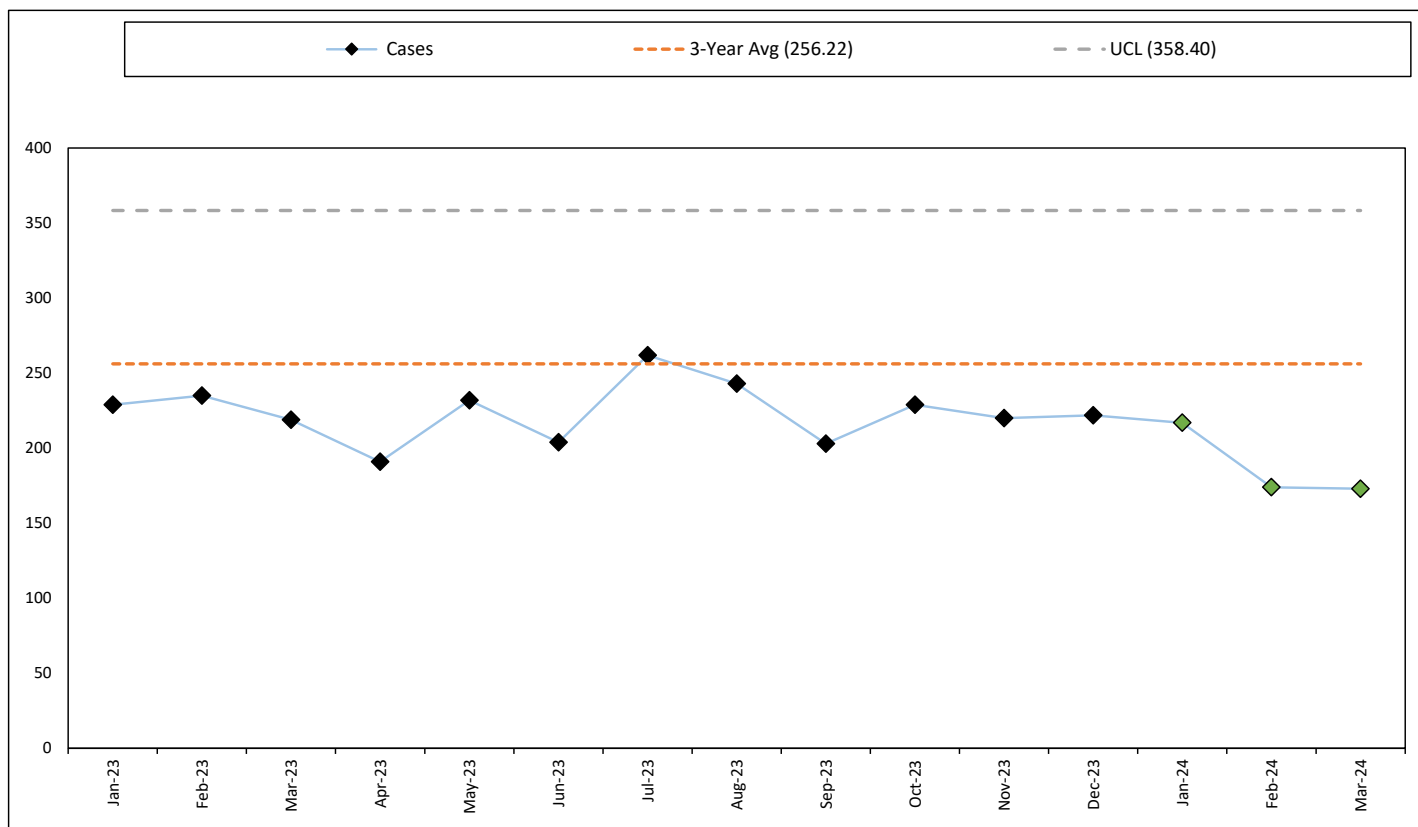
Month	Gonorrhea Cases	Gonorrhea Cases
	2023	2024
January	229	217
February	235	174
March	219	173
April	191	-
May	232	-
June	204	-
July	262	-
August	243	-
September	203	-
October	229	-
November	220	-
December	222	-
<b>Total</b>	<b>2,689</b>	<b>564</b>

## Gonorrhea Quarterly Report: Hamilton County

**Figure 4** shows a surveillance control chart. The dashed orange line shows the average number of new gonorrhea cases per month for the past 3 years (2021, 2022, and 2023). The previous 3-year average is 256.22 new gonorrhea cases per month. The dashed gray line is the upper control limit (UCL) with a value of 358.40. A single point above or near the UCL may signal anomalies that need to be investigated. The diamonds on the blue line graph show the actual number of new gonorrhea infections by month. The green diamonds are the months from the most recent quarter.

**Analysis:** For Q1 2024, all points have been below the 3-year average. Consecutive points above the average may signal anomalies that need to be investigated. All points have been below the UCL which indicates no anomalies related to the UCL for this time frame. When there are only a small number of cases, it may be difficult to distinguish random fluctuations in disease incidence from true changes in the underlying risk for the disease.

**Figure 4. Hamilton County Gonorrhea Control Chart**



The average is found using gonorrhea counts by month for the previous 3 years. A standard deviation is calculated using the same time frame. The upper control limit is determined by multiplying the standard deviation by 2 and adding the 3-year average. These data are provisional and subject to change.

**Table 6** shows gender, race, and age group data for gonorrhea cases among Hamilton County residents. Within each category, the highest number percentages are highlighted in blue. For 2024, newly reported gonorrhea infections were primarily diagnosed in Male (50.2%), Black (70.2%), and 15-24 year old individuals (55.7%).

<b>Table 8. Hamilton County Gonorrhea Morbidity</b>				
	<b>2023</b>		<b>2024 1st Quarter</b>	
	#	%	#	%
<b>Gender</b>				
Male	1,441	53.6%	283	50.2%
Female	1,248	46.4%	281	49.8%
<b>Race</b>				
Black	1,979	73.6%	396	70.2%
White	337	12.5%	87	15.4%
Multi	116	4.3%	31	5.5%
Other	97	3.6%	28	5.0%
Unknown	160	6.0%	22	3.9%
<b>Age Group</b>				
<14	8	30.0%	2	0.4%
15-24	1,337	49.7%	314	55.7%
25-34	862	32.1%	167	29.6%
35-44	317	11.8%	52	9.2%
45-54	93	3.5%	18	3.2%
55-64	36	1.3%	5	0.9%
65+	12	0.4%	4	0.7%
Unknown	24	0.9%	2	0.4%

Percentages may not total to 100 due to rounding. Percentages are based on availability of data for all cases. These data are provisional and subject to change.



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