

Hamilton County Chlamydia and Gonorrhea Quarterly Report

2024 4th 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.

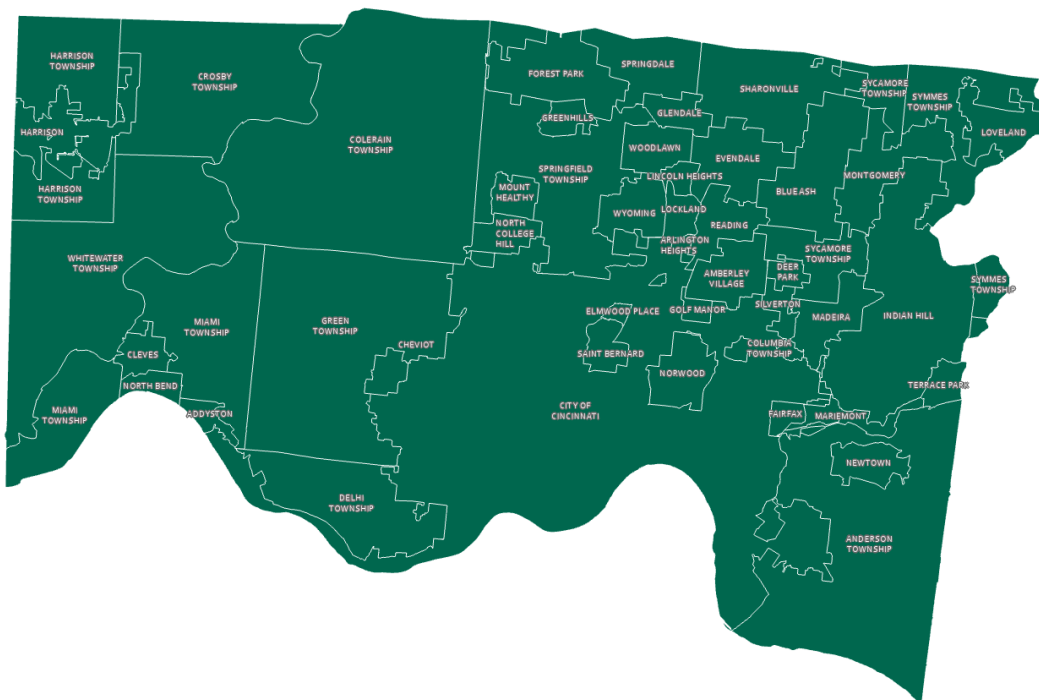
This quarterly report features total case counts and demographic data from 2020 through the 4th quarter of 2024. The purpose of collecting and distributing demographic data is to inform programming, community partners, and stakeholders so the best effort can be made to diagnose, prevent, and treat chlamydia 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 04/15/2025.

Email 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	6,143	5,428

Table 1 shows total new chlamydia cases in Hamilton County from 2020 through the 4th 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 4th quarter of 2024.

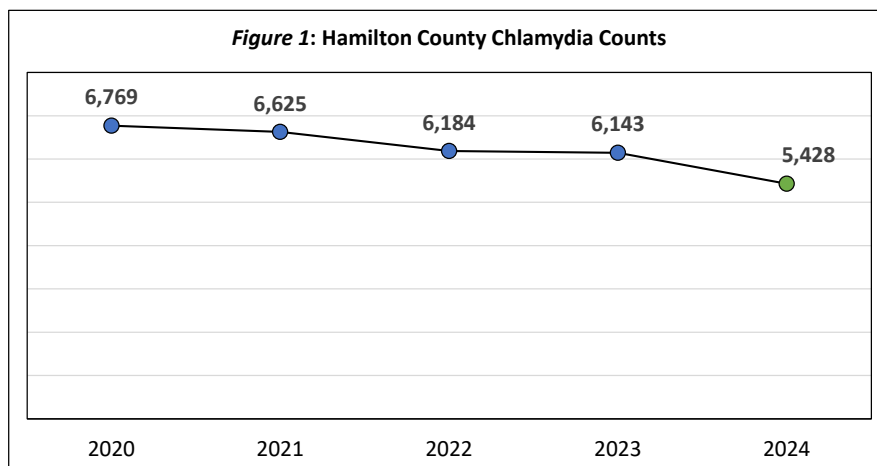


Table 2 is a comparison of year 2023 and 2024. There were **11.6% fewer** new chlamydia cases in 2024 compared to 2023 during this time period.

Table 2. Hamilton County Year Comparisons		
2023	2024	% Change
6,143	5,428	-11.6% ↓

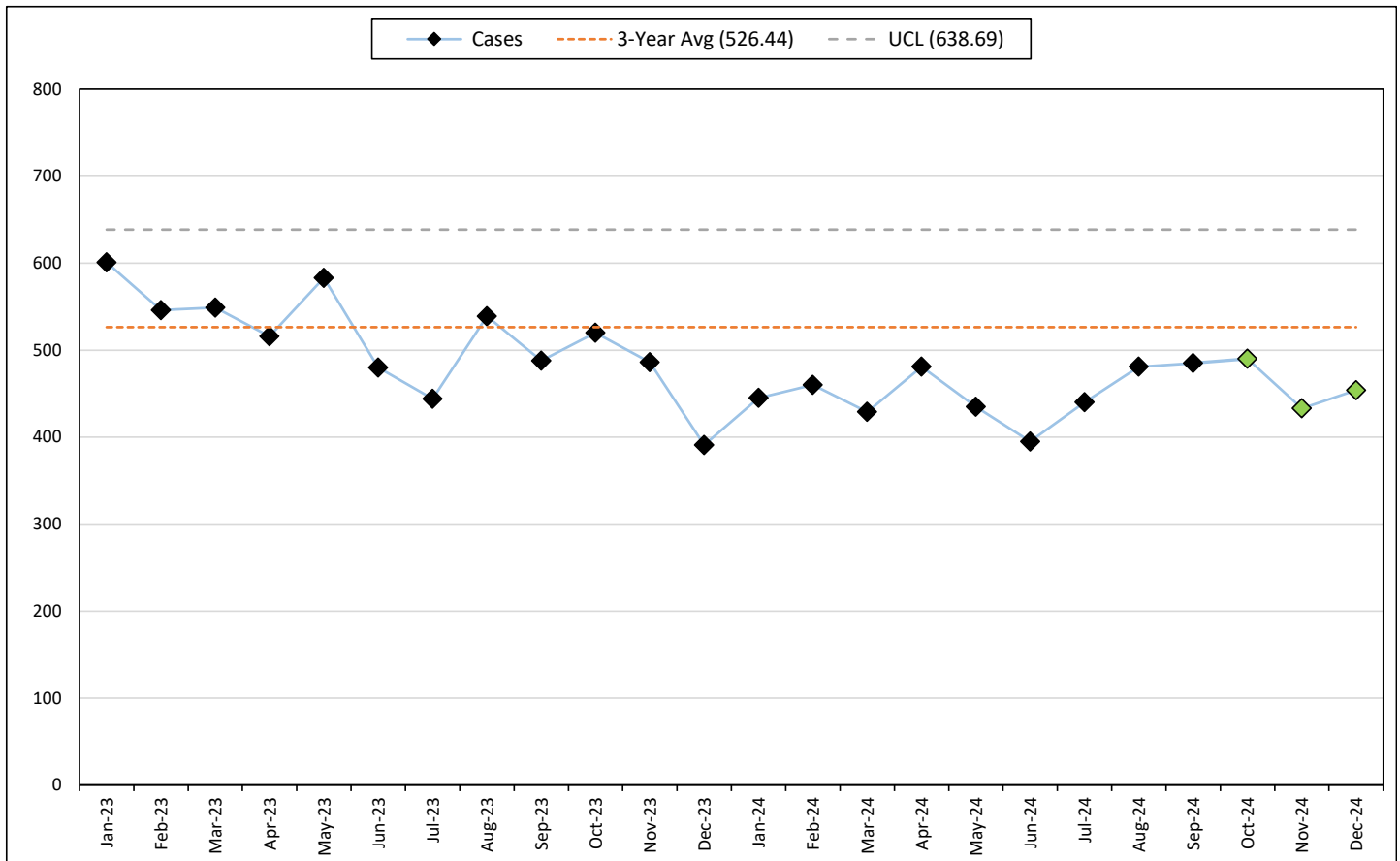
Table 3 displays the breakdown of new chlamydia cases from 2023 through the 4th quarter of 2024 by month. In 2023, the highest number of cases was seen in January (601 cases). In 2024, the highest number of chlamydia cases have occurred in October (490 cases).

Table 3. Hamilton County Chlamydia Cases by Month		
Month	Chlamydia Cases 2023	Chlamydia Cases 2024
January	601	445
February	546	460
March	549	429
April	516	481
May	583	435
June	480	395
July	444	440
August	539	481
September	488	485
October	520	490
November	486	433
December	391	454
Total	6,143	5,428

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 526.44 new chlamydia cases per month. The dashed gray line is the upper control limit (UCL) with a value of 638.69. 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 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 (65.9%), Black (60.9%), and 15-24 year old individuals (59.2%).

Table 4. Hamilton County Chlamydia Morbidity				
	2023		2024	
	#	%	#	%
Gender				
Male	1,989	32.3%	1,849	34.1%
Female	4,154	67.7%	3,579	65.9%
Race				
Black	3,761	61.2%	3,303	60.9%
White	1,157	18.8%	1,080	19.9%
Multi	291	4.7%	232	4.3%
Other	422	6.9%	455	8.4%
Unknown	512	8.3%	358	6.6%
Age Group				
<14	35	0.6%	18	0.3%
15-24	3,785	61.6%	3,212	59.2%
25-34	1,666	27.1%	1,536	28.3%
35-44	426	6.9%	465	8.6%
45-54	117	1.9%	121	2.2%
55-64	43	0.7%	27	0.5%
65+	4	0.1%	19	0.4%
Unknown	67	1.1%	30	0.6%

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	2,569

Table 5 shows total new gonorrhea cases in Hamilton County from 2020 through the 4th 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 4th quarter of 2024.

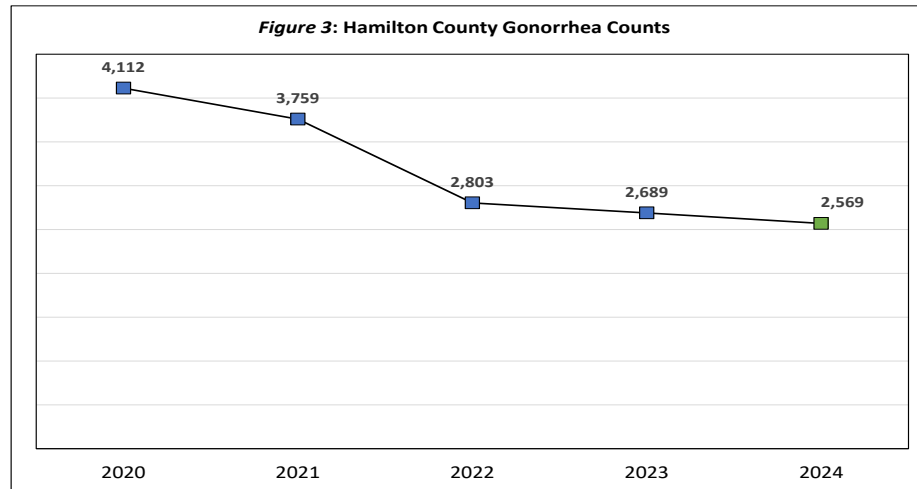


Table 6 is a comparison of year 2023 and 2024. There were **4.5% fewer** new gonorrhea cases in 2024 compared to 2023 during this time period.

Table 6. Hamilton County Year Comparisons		
2023	2024	% Change
2,689	2,569	-4.5% ↓

Table 7 displays the breakdown of new gonorrhea cases from 2023 through the 4th quarter of 2024 by month. In 2023, the highest number of cases was seen in July (262 cases). In 2024, the highest number of gonorrhea cases have occurred in September (264 cases).

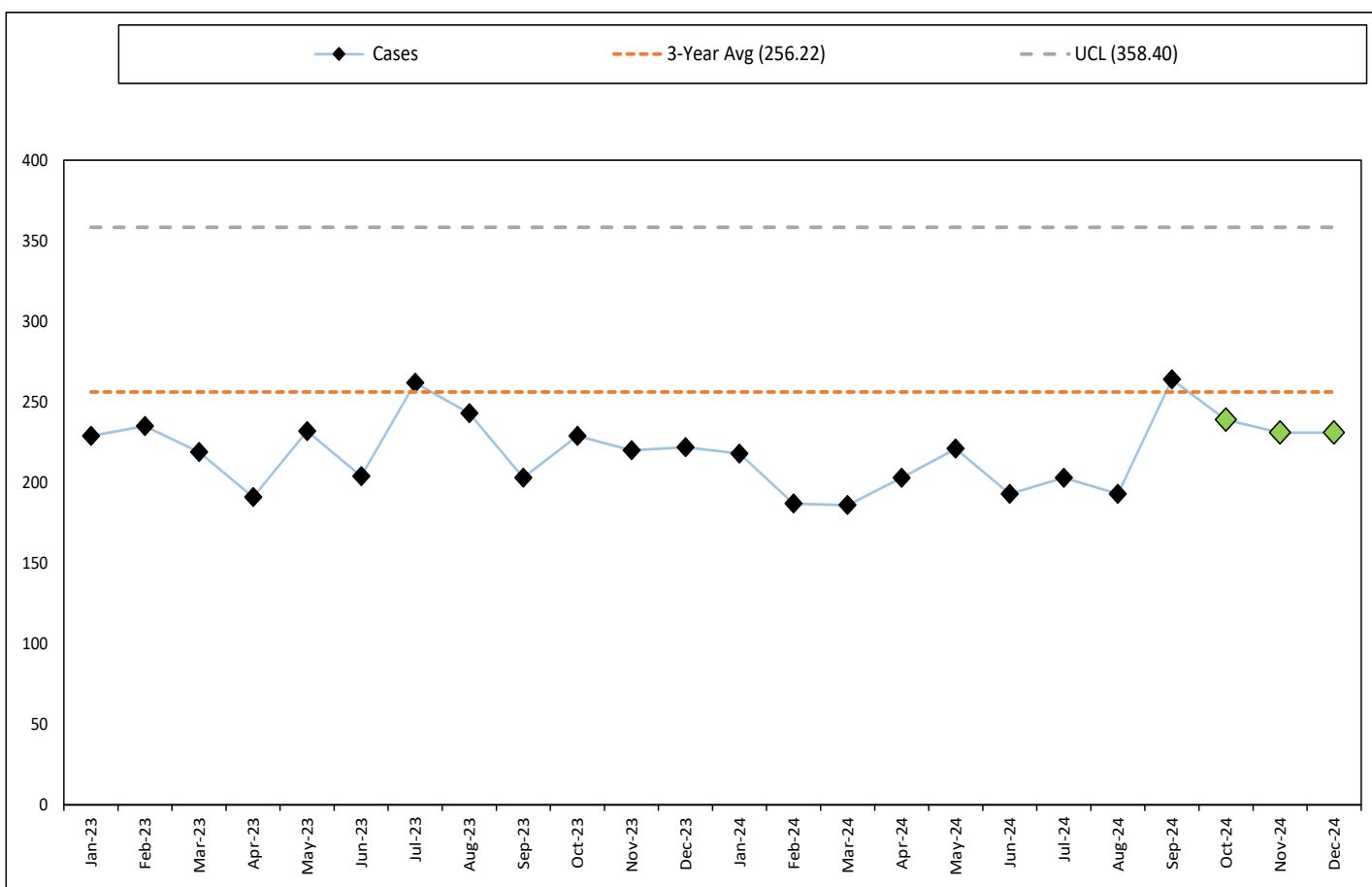
Table 7. Hamilton County Gonorrhea Cases by Month		
Month	Gonorrhea Cases	Gonorrhea Cases
	2023	2024
January	229	218
February	235	187
March	219	186
April	191	203
May	232	221
June	204	193
July	262	203
August	243	193
September	203	264
October	229	239
November	220	231
December	222	231
Total	2,689	2,569

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 2024, one point in September has been above 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 (54.1%), Black (71.6%), and 15-24 year old individuals (50.4%).

Table 8. Hamilton County Gonorrhea Morbidity				
	2023		2024	
	#	%	#	%
Gender				
Male	1,441	53.6%	1,390	54.1%
Female	1,248	46.4%	1,179	45.9%
Race				
Black	1,979	73.6%	1,839	71.6%
White	337	12.5%	382	14.9%
Multi	116	4.3%	118	4.6%
Other	97	3.6%	115	4.5%
Unknown	160	6.0%	115	4.5%
Age Group				
<14	8	30.0%	8	0.3%
15-24	1,337	49.7%	1,296	50.4%
25-34	862	32.1%	788	30.7%
35-44	317	11.8%	303	11.8%
45-54	93	3.5%	103	4.0%
55-64	36	1.3%	35	1.4%
65+	12	0.4%	15	0.6%
Unknown	24	0.9%	21	0.8%

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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