

# **Hamilton County Chlamydia and Gonorrhea Quarterly Report**

**2023 3rd Quarter**

## **Hamilton County Public Health Division of Epidemiology and Assessment**

**250 William Howard Taft Road  
Cincinnati, Ohio 45219  
513.946.7800**

**[www.hamiltoncountyhealth.org](http://www.hamiltoncountyhealth.org)**

**Date Reported: December 2023**

# 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).

This quarterly report features total case counts and demographic data. 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. 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 12/11/2023.

**Email [Jacob.Henderson@hamilton-co.org](mailto:Jacob.Henderson@hamilton-co.org) with any questions regarding this report.**

For HIV or other STI testing information please call the HCPH Clinic at 513-946-7600

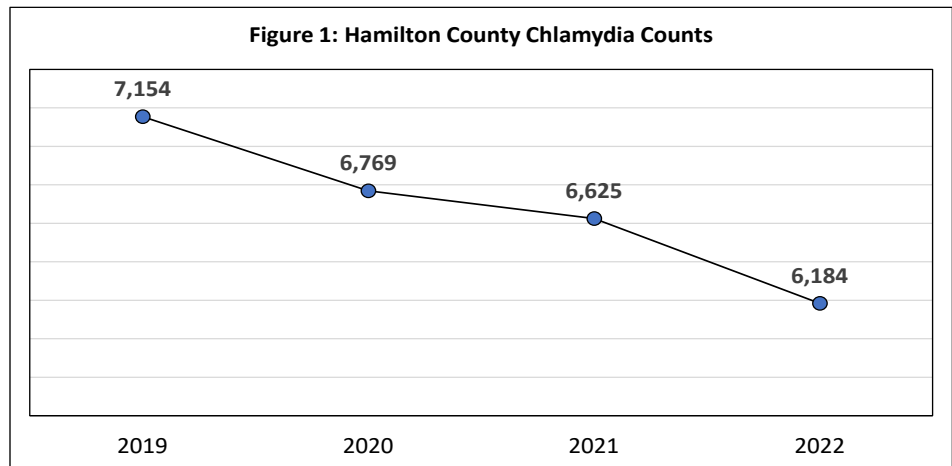
## Overview of Chlamydia in Hamilton County

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

2019	2020	2021	2022	Jan - Sept 2023
7,154	6,769	6,625	6,184	4,692

**Table 1** shows total chlamydia infections in Hamilton County from 2019 through September of 2023. The most recent data are highlighted in light green.

**Figure 1** is a line graph of chlamydia infections from 2019-2022. Chlamydia diagnoses have been decreasing annually since 2019.



**Table 2** displays the breakdown of new chlamydia cases for Hamilton County residents from January 2022 through September 2023 by month. In 2022, the highest number of cases occurred in August (592). In 2023, the highest number of cases occurred in January (599).

Table 2. Hamilton County Chlamydia Infections by Month		
Month	Chlamydia Cases 2022	Chlamydia Cases 2023
January	461	599
February	436	538
March	585	544
April	549	507
May	522	578
June	513	475
July	473	437
August	592	534
September	544	480
October	508	-
November	539	-
December	462	-
<b>Total</b>	<b>6,184</b>	<b>4,692</b>

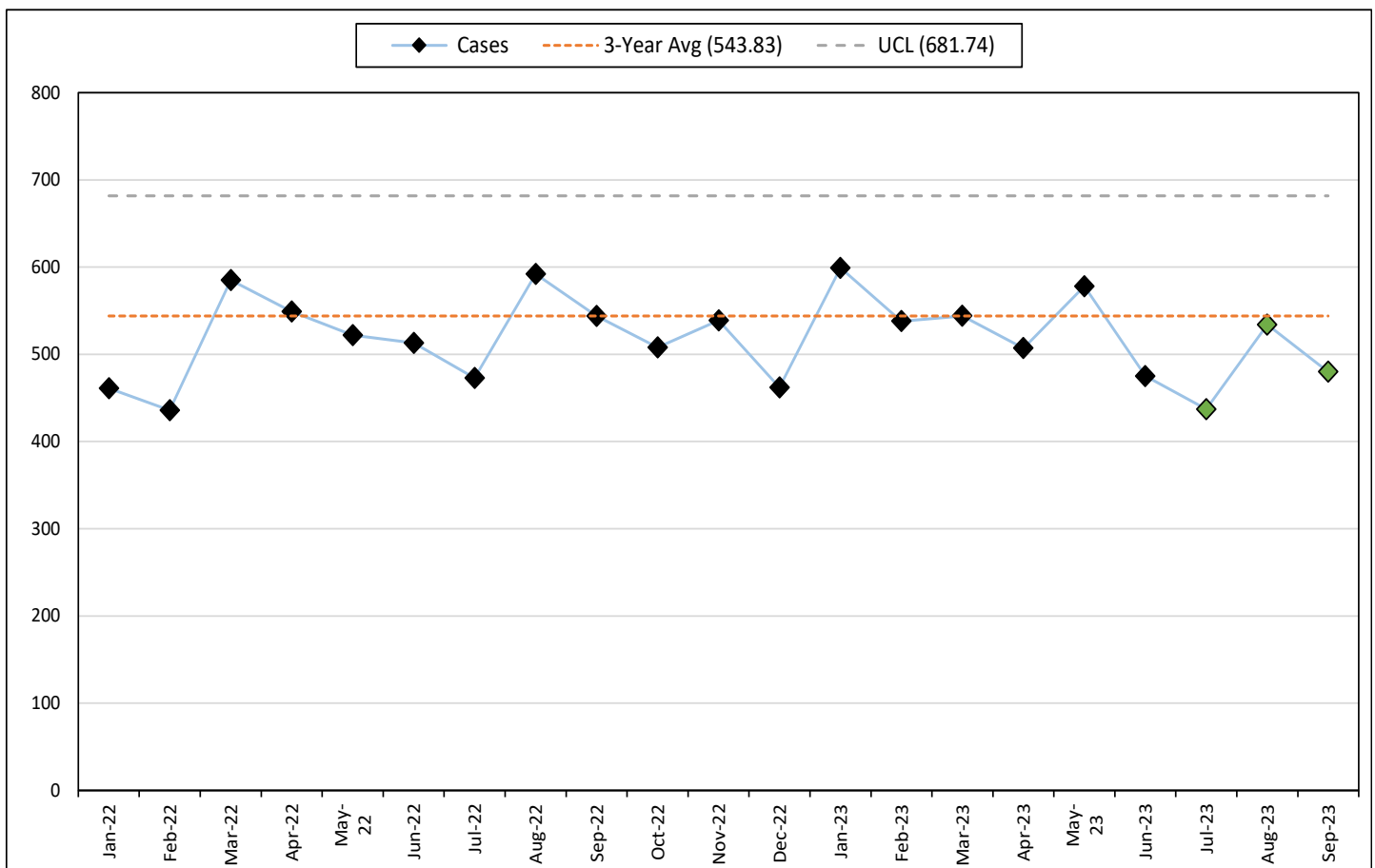
**Table 3** is a comparison of the 1st through 3rd quarters of 2022 and 2023. During this time frame, Hamilton County saw a **0.4% increase** of new chlamydia infections.

Table 3. Hamilton County 1st - 3rd Quarter Comparisons		
2022	2023	% Change
4,675	4,692	<b>0.4% ↑</b>

**Figure 2** shows a surveillance control chart. The dashed orange line is the 3-year average (2020, 2021, and 2022) for monthly new chlamydia infections. The 3-year average is 543.83 new chlamydia infections per month. The dashed gray line is the upper control limit (UCL) with a value of 681.74. The diamonds on the blue line graph show the reported number of chlamydia infections by month. The green diamonds are the months from the most recent quarter.

**Analysis:** For 2023, January, March, and May were above the 3-year average. All points have been below the upper control limit. A single point above or near the UCL or consecutive points above the average may signal anomalies that need to be investigated. However, when there are a small number of cases it may be difficult to distinguish random fluctuations in disease/injury incidence from true changes in the underlying risk for the disease/injury.

**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 chlamydia cases among Hamilton County residents. Within each category, the highest number percentages are highlighted in blue. For 2023, new chlamydia infections were primarily diagnosed in Female (68.2%), Black (61.4%), and 15-24 year olds (62.7%).

<b>Table 4. Hamilton County Chlamydia Morbidity</b>				
	<b>2022</b>		<b>Jan - Sept 2023</b>	
	<b>#</b>	<b>%</b>	<b>#</b>	<b>%</b>
<b>Gender</b>				
Male	1,913	30.9%	1,490	31.8%
Female	4,271	69.1%	3,202	68.2%
<b>Race</b>				
Black	3,631	58.7%	2,882	61.4%
White	1,114	18.0%	877	18.7%
Multi	256	4.1%	219	4.7%
Other	377	6.1%	308	6.6%
Unknown/Null	806	13.0%	406	8.7%
<b>Age Group</b>				
<14	31	0.5%	31	0.7%
15-24	3,920	63.4%	2,944	62.7%
25-34	1,660	26.8%	1,240	26.4%
35-44	374	6.0%	301	6.4%
45-54	112	1.8%	88	1.9%
55-64	21	0.3%	29	0.6%
65+	15	0.2%	4	0.1%
Unknown/Null	51	0.8%	55	1.2%

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.

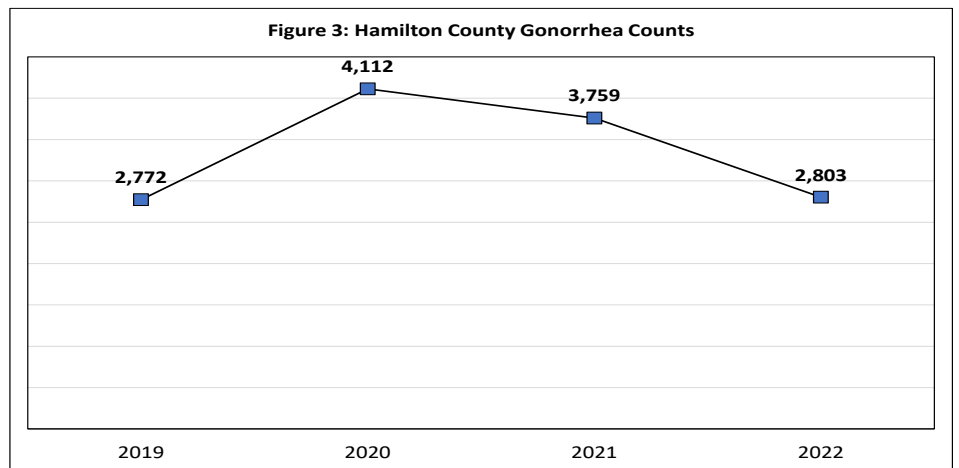
## Overview of Gonorrhea in Hamilton County

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

2019	2020	2021	2022	Jan - Sept 2023
2,772	4,112	3,759	2,803	1,986

**Table 5** shows total gonorrhea infections in Hamilton County from 2019 through September of 2023. The most recent data are highlighted in light green.

**Figure 3** is a line graph of gonorrhea infections from 2019-2022. Gonorrhea diagnoses have been decreasing annually since 2020.



**Table 6. Hamilton County Gonorrhea Infections by Month**

**Table 6** displays the breakdown of new gonorrhea cases for Hamilton County residents from January 2022 through September 2023 by month. In 2022, the highest number of cases occurred in May (274). In 2023, the highest number of cases occurred in May (230).

Month	Gonorrhea Cases	Gonorrhea Cases
	2022	2023
January	252	228
February	190	229
March	239	214
April	229	190
May	274	230
June	246	201
July	215	256
August	234	238
September	259	200
October	232	-
November	198	-
December	235	-
<b>Total</b>	<b>2,803</b>	<b>1,986</b>

**Table 7** is a comparison of the 1st through 3rd quarters of 2022 and 2023. During this time frame, Hamilton County saw a **7.1% decrease** of new gonorrhea infections.

**Table 7. Hamilton County 1st - 3rd Quarter Comparisons**

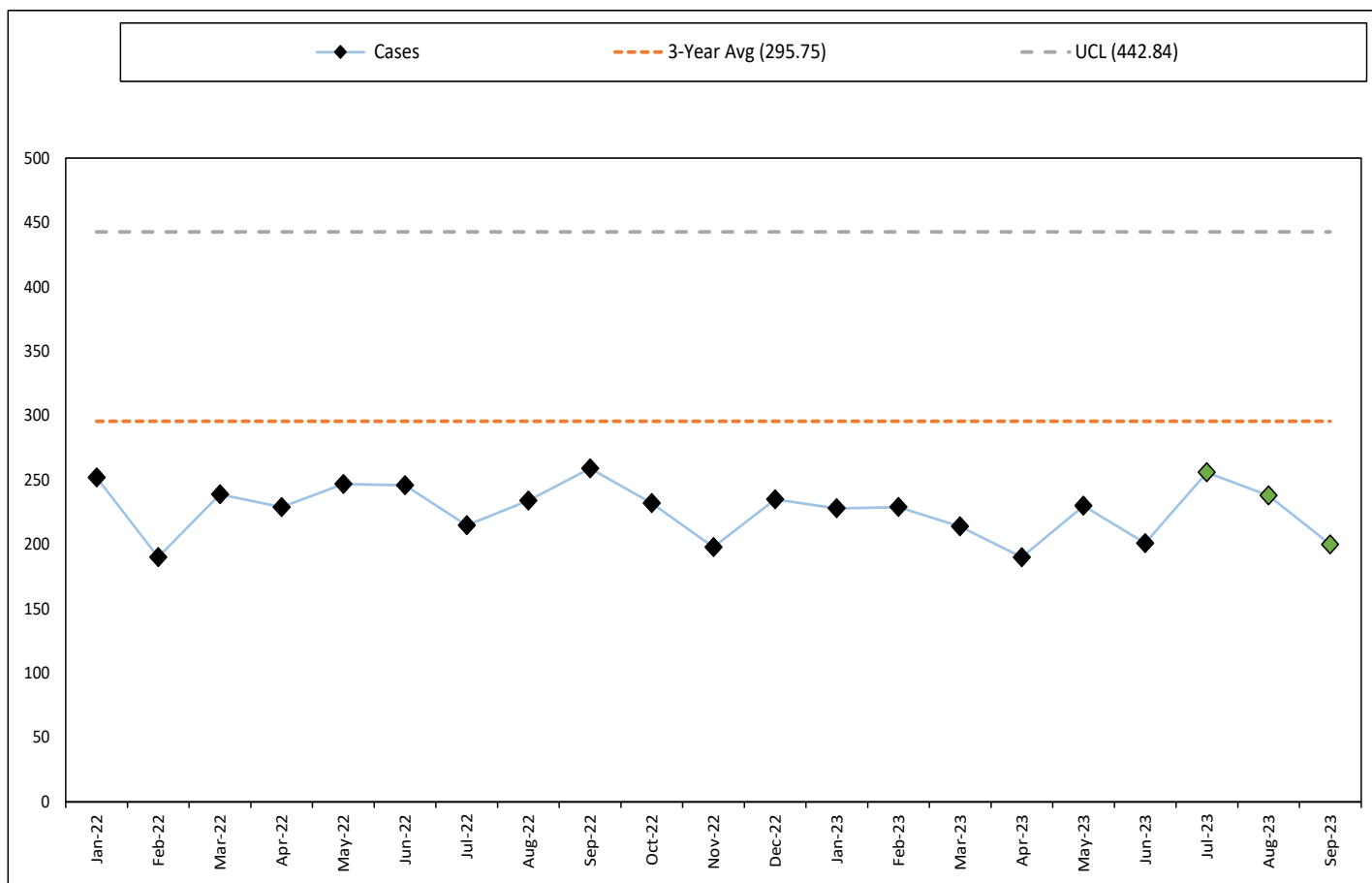
2022	2023	% Change
2,138	1,986	-7.1% ↓

## Gonorrhea Quarterly Report: Hamilton County

**Figure 4** shows a surveillance control chart. The dashed orange line is the 3-year average (2020, 2021, and 2022) for monthly new gonorrhea infections. The 3-year average is 295.75 new gonorrhea infections per month. The dashed gray line is the upper control limit (UCL) with a value of 442.84. The diamonds on the blue line graph show the reported number of new gonorrhea infections by month. The green diamonds are the months from the most recent quarter.

**Analysis:** For 2023, all points have been below the previous 3-year average. A single point above or near the UCL or consecutive points above the average may signal anomalies that need to be investigated. However, when there are a small number of cases it may be difficult to distinguish random fluctuations in disease/injury incidence from true changes in the underlying risk for the disease/injury.

**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 2023, new gonorrhea infections were primarily diagnosed in Male (52.6%), Black (72.1%), and 15-24 year olds (48.1%).

<b>Table 8. Hamilton County Gonorrhea Morbidity</b>				
	<b>2022</b>		<b>Jan - Sept 2023</b>	
	#	%	#	%
<b>Gender</b>				
Male	1,389	49.6%	1,045	52.6%
Female	1,414	50.4%	941	47.4%
<b>Race</b>				
Black	1,979	70.6%	1,432	72.1%
White	345	12.3%	275	13.8%
Multi	133	4.7%	83	4.2%
Other	104	3.7%	71	3.6%
Unknown/Null	242	8.6%	125	6.3%
<b>Age Group</b>				
<14	17	0.6%	8	0.4%
15-24	1,449	51.7%	955	48.1%
25-34	878	31.3%	663	33.4%
35-44	309	11.0%	231	11.6%
45-54	77	2.7%	74	3.7%
55-64	43	1.5%	26	1.3%
65+	12	0.4%	8	0.4%
Unknown/Null	18	0.6%	21	1.1%

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.



250 William Howard Taft Road, 2nd Floor  
Cincinnati, OH 45219 • 513.946.7800  
hamiltoncountyhealth.org