

Hamilton County Chlamydia and Gonorrhea Quarterly Report

2023 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).

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. 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 3/5/2024.

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 513-946-7600

Overview of Chlamydia in Hamilton County

Table 1. Hamilton County Total Chlamydia Cases by Year

2019	2020	2021	2022	2023
7,154	6,769	6,625	6,184	6,086

Table 1 shows total newly reported chlamydia cases in Hamilton County from 2019-2023. The most recent data are highlighted in light green.

Figure 1 is a line graph of chlamydia cases from 2019-2023. Chlamydia cases have decreased by 15% from 2019-2023.

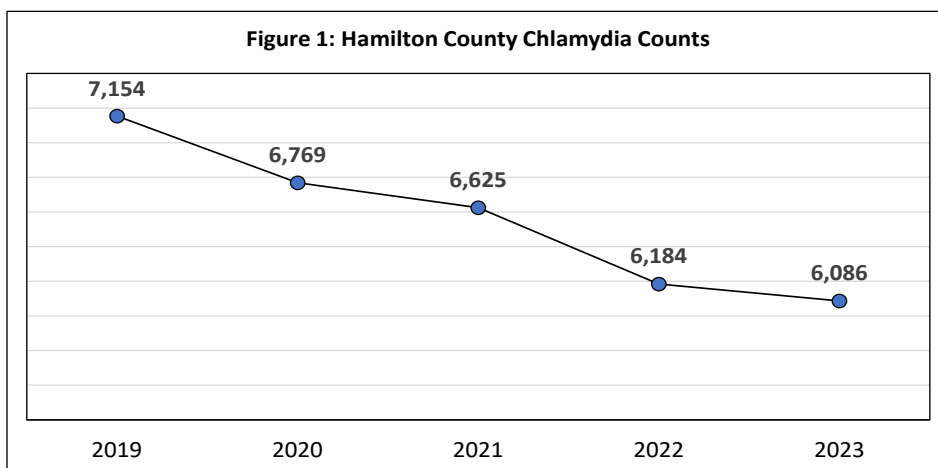


Table 2 displays the breakdown of newly reported chlamydia cases for Hamilton County residents for 2022 and 2023 by month. In 2022, the highest number of cases occurred in August (592). In 2023, the highest number of cases occurred in January (599).

Table 2. Hamilton County Chlamydia Cases by Month

Month	Chlamydia Cases	Chlamydia Cases
	2022	2023
January	461	599
February	436	539
March	585	544
April	549	507
May	522	578
June	513	475
July	473	437
August	592	534
September	544	480
October	508	518
November	539	485
December	462	390
Total	6,184	6,086

Table 3 is a comparison of year 2022 and 2023. During this time frame, Hamilton County saw a **1.6% decrease** of newly reported chlamydia cases.

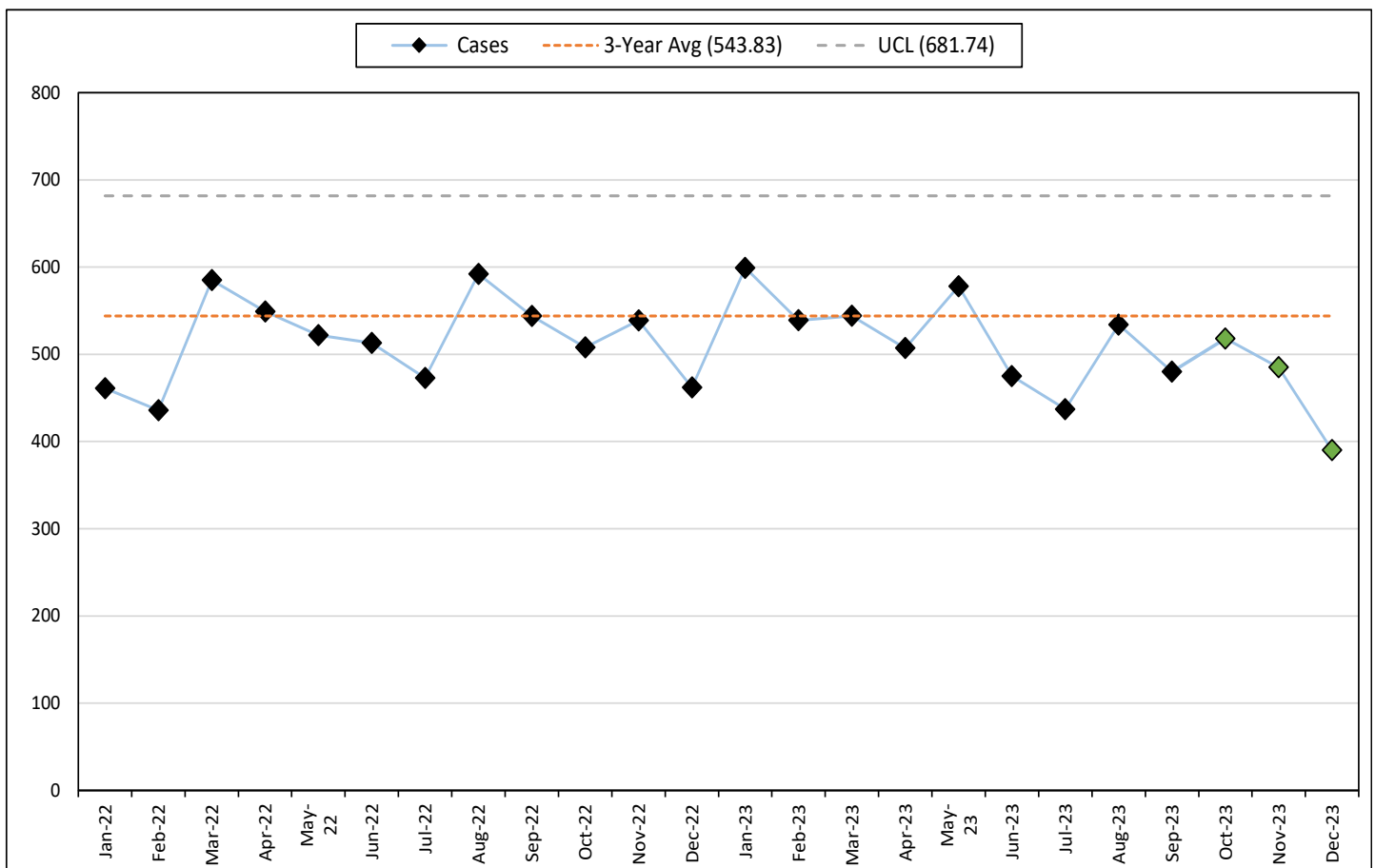
Table 3. Hamilton County Year Comparisons

2022	2023	% Change
6,184	6,086	-1.6% ↓

Figure 2 Shown below, is a surveillance control chart. The dashed orange line is the 3-year average (2020, 2021, and 2022) for monthly newly reported chlamydia cases. The 3-year average is 543.83 newly reported chlamydia cases 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 newly reported number of chlamydia cases 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. Since all points were below the UCL, no anomalies were signaled.

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.

Chlamydia Quarterly Report: Hamilton County

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 2023, newly reported chlamydia cases were primarily diagnosed in Female (67.9%), Black (61.5%), and 15-24 year old individuals (61.6%).

Table 4. Hamilton County Chlamydia Morbidity				
	2022		2023	
	#	%	#	%
Gender				
Male	1,913	30.9%	1,955	32.1%
Female	4,271	69.1%	4,131	67.9%
Race				
Black	3,631	58.7%	3,741	61.5%
White	1,114	18.0%	1,145	18.8%
Multi	256	4.1%	276	4.5%
Other	377	6.1%	417	6.9%
Unknown	806	13.0%	507	8.3%
Age Group				
<14	31	0.5%	35	0.6%
15-24	3,920	63.4%	3,751	61.6%
25-34	1,660	26.8%	1,655	27.2%
35-44	374	6.0%	417	6.9%
45-54	112	1.8%	115	1.9%
55-64	21	0.3%	42	0.7%
65+	15	0.2%	4	0.1%
Unknown	51	0.8%	67	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.

Overview of Gonorrhea in Hamilton County

Table 5. Hamilton County Total Gonorrhea Cases by Year

2019	2020	2021	2022	2023
2,772	4,112	3,759	2,803	2,654

Table 5 shows total newly reported gonorrhea cases in Hamilton County from 2019-2023. The most recent data are highlighted in light green.

Figure 3 is a line graph of gonorrhea cases from 2019-2023. Gonorrhea cases have decreased 35% since 2020.

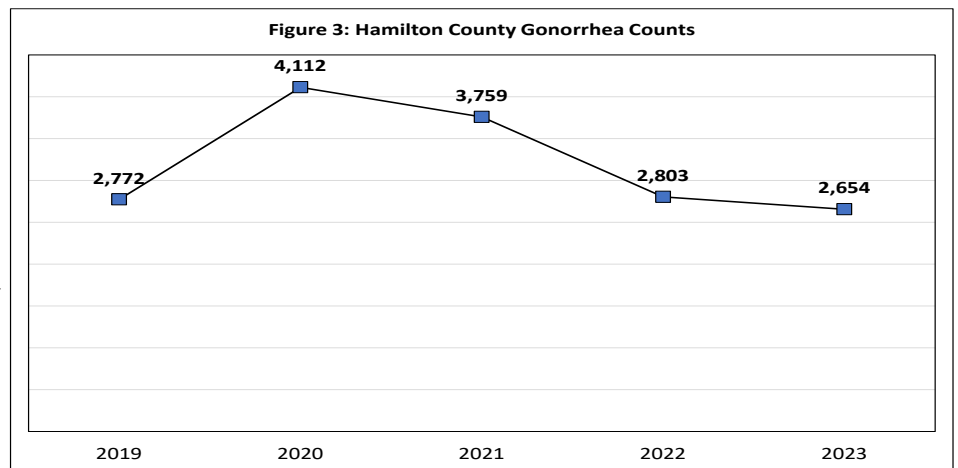


Table 6. Hamilton County Gonorrhea Cases by Month

Table 6 displays the breakdown of newly reported gonorrhea cases for Hamilton County residents from 2022 through 2023 by month. In 2022, the highest number of cases occurred in May (274). In 2023, the highest number of cases occurred in August (238).

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	228
November	198	218
December	235	222
Total	2,803	2,654

Table 7 is a comparison of the years 2022 and 2023. During this time frame, Hamilton County saw a **5.3% decrease** of newly reported gonorrhea cases.

Table 7. Hamilton County Year Comparisons

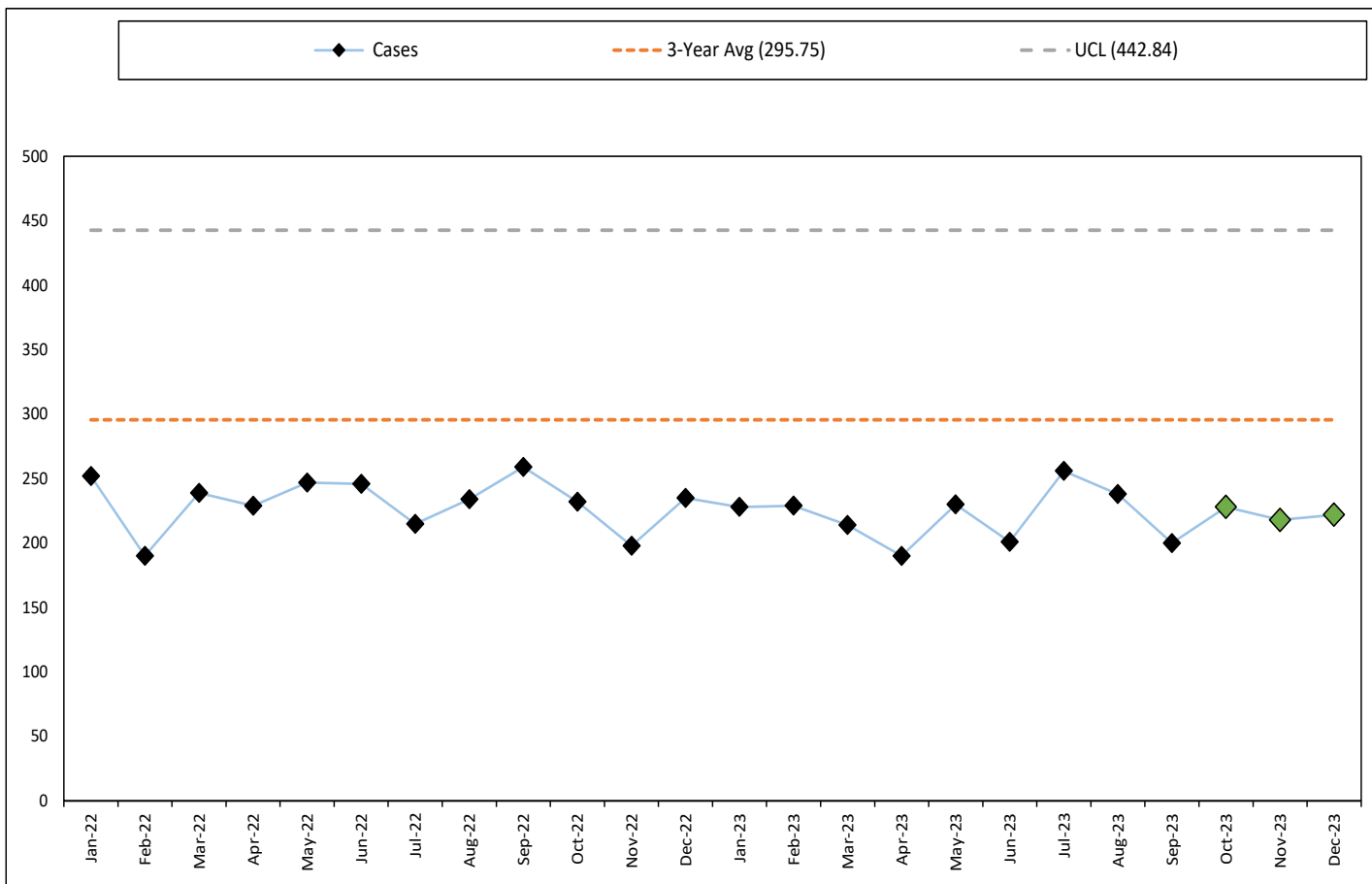
2022	2023	% Change
2,803	2,654	-5.3% ↓

Gonorrhea Quarterly Report: Hamilton County

Figure 4 Shown below, is a surveillance control chart. The dashed orange line is the 3-year average (2020, 2021, and 2022) for monthly newly reported gonorrhea cases. The 3-year average is 295.75 newly reported gonorrhea cases 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 newly reported number of gonorrhea cases 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. Since all points have been below the average and below the UCL, no anomalies were signaled.

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, newly reported gonorrhea infections were primarily diagnosed in Male (53.4%), Black (74.3%), and 15-24 year old individuals (49.5%).

Table 8. Hamilton County Gonorrhea Morbidity				
	2022		2023	
	#	%	#	%
Gender				
Male	1,389	49.6%	1,416	53.4%
Female	1,414	50.4%	1,238	46.6%
Race				
Black	1,979	70.6%	1,972	74.3%
White	345	12.3%	327	12.3%
Multi	133	4.7%	109	4.1%
Other	104	3.7%	95	3.6%
Unknown	242	8.6%	151	5.7%
Age Group				
<14	17	0.6%	8	0.3%
15-24	1,449	51.7%	1,313	49.5%
25-34	878	31.3%	855	32.2%
35-44	309	11.0%	313	11.8%
45-54	77	2.7%	93	3.5%
55-64	43	1.5%	36	1.4%
65+	12	0.4%	12	0.5%
Unknown	18	0.6%	24	0.9%

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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