



# Monthly Communicable Disease Surveillance Report

February 2023

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**HAMILTON COUNTY  
PUBLIC HEALTH**

PREVENT. PROMOTE. PROTECT.



# NOTIFIABLE COMMUNICABLE DISEASES

## Hamilton County Public Health (HCPH) Jurisdiction

Number of Communicable Diseases Reported: 102

Most frequently reported communicable diseases:

- Chronic hepatitis C (n=28)
- Chronic Hepatitis B (n=11)
- Streptococcal pneumoniae (invasive) (n=9)
- Streptococcal, Group A (invasive) (n=7)
- Influenza-associated hospitalization (n=6)
- Syphilis (n=6)

## Southwest Ohio (SWOH)

Number of Communicable Diseases Reported: 396

Most frequently reported communicable diseases:

- Chronic hepatitis C (n=137)
- Chronic hepatitis B (n=48)
- Streptococcal, Group A (invasive) (n=27)
- Streptococcal pneumoniae (invasive) (n=23)
- Influenza-associated hospitalization (n=21)

## Summary

In February, the overall rates of reported communicable diseases for HCPH, SWOH, and Ohio decreased by 4%, 12%, and 30% respectively. (Figure 1). The SWOH rate (24.2) was the highest of the three rates, followed by the HCPH rate (22.9) and the Ohio rate (22.2) (Table 1). These rates are prorated to 30 days so they can be compared accurately.

Chronic hepatitis C was the most commonly reported communicable disease across SWOH, with chronic hepatitis B and Streptococcal, Group A (invasive) 2<sup>nd</sup> and 3<sup>rd</sup> respectively (Table 2). Chronic hepatitis (Hepatitis C and Hepatitis B combined) comprised 46.7% of the total communicable diseases reported during February. Southwest Ohio is currently on pace to have a 4.8% increase in hepatitis cases over the previous year's average number of cases (189). The rate of chronic hepatitis within Hamilton County for February was 10.6 per 100,000 residents. This rate was equal to the SWOH rate of 10.6 per 100,000 residents.

Streptococcal, Group A (invasive) was the third most frequently reported disease in SWOH (Table 2). Streptococcal, Group A (invasive) cases accounted for 6.8% of the total communicable diseases reported during February. The number of cases of Streptococcal, Group A (invasive) reported for SWOH in February (27) was higher than the number of cases reported in the previous month (25). The rate of Streptococcal, Group A (invasive) within Hamilton County for February was 2.1 per 100,000 residents. This rate was 37% higher than the SWOH rate of 1.6 per 100,000 residents.

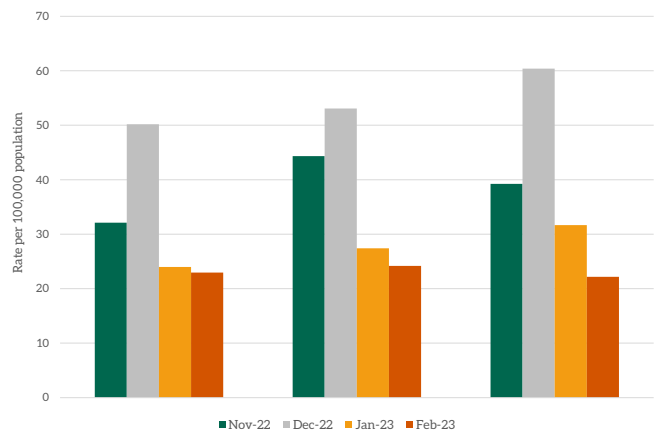
**Table 1. Comparison of the Reported Cases of Notifiable Communicable Diseases by Location, February 2023**

| Location | Number of Reported Cases | Rate per 100,000 | Rate Ratio† | Confidence Interval (99%)‡ |
|----------|--------------------------|------------------|-------------|----------------------------|
| HCPH     | 102                      | 21.42            | 0.76        | 0.59 - 0.96                |
| SWOH     | 396                      | 22.57            | 0.87        | 0.77 - 0.98                |
| Ohio     | 2,396                    | 20.70            | .           | .-.                        |

rate of Streptococcal pneumoniae (invasive) within Hamilton County for February was 1.4 per 100,000 residents. This rate was 4% higher than the SWOH rate of 1.3 per 100,000 residents.

Streptococcal pneumoniae (invasive) was the fourth most frequently reported disease in SWOH (Table 2). Streptococcal pneumoniae (invasive) cases accounted for 5.8% of the total communicable diseases reported during February. The number of cases of Streptococcal pneumoniae (invasive) reported for SWOH in February (23) was lower than the number of cases reported in the previous month (28). The

**Figure 1. 30-Day Rates of Reported Communicable Diseases in Ohio, Southwest Ohio, and Hamilton County Public Health Jurisdiction, November 2022 - February 2023**



†Ratio of local rate to the Ohio rate.

‡Confidence intervals that do not contain the value of one are considered statistically significant.

Table 2. Cases of Notifiable Diseases in Southwest Ohio as Reported in ODRS by County, February 2023

| Reportable Condition                      | County   |       |       |        |          |         |          |        |   |   | Total |
|---|----------|-------|-------|--------|----------|---------|----------|--------|---|---|-------|
|   | Hamilton | Adams | Brown | Butler | Clermont | Clinton | Highland | Warren |   |   |       |
| C. auris                                  | 3        | .     | .     | .      | .        | .       | .        | .      | . | . | 3     |
| C. auris - Investigation                  | 4        | .     | 1     | .      | 1        | .       | .        | 2      | . | . | 8     |
| CP-CRE                                    | 5        | .     | .     | 1      | .        | .       | 1        | .      | . | . | 7     |
| CP-CRE - Investigation                    | .        | .     | .     | .      | .        | .       | 1        | .      | . | . | 1     |
| Campylobacteriosis                        | 7        | 1     | .     | 1      | 4        | .       | 2        | 1      | . | . | 16    |
| Coccidioidomycosis                        | 1        | .     | .     | .      | .        | .       | .        | .      | . | . | 1     |
| Cryptosporidiosis                         | 2        | .     | .     | .      | .        | .       | .        | .      | . | . | 2     |
| E.Coli (shiga toxin producing)            | 2        | .     | .     | .      | .        | .       | .        | .      | . | . | 2     |
| Giardiasis                                | 4        | .     | .     | 1      | .        | .       | .        | 1      | . | . | 6     |
| Haemophilus influenzae (invasive)         | 6        | .     | 2     | 2      | 1        | .       | 1        | 1      | 1 | . | 13    |
| Hepatitis A                               | 1        | .     | .     | 1      | .        | .       | 1        | .      | . | . | 3     |
| Hepatitis B (acute)                       | 1        | .     | .     | .      | .        | .       | .        | .      | . | . | 1     |
| Hepatitis B (chronic)                     | 22       | 1     | 1     | 14     | 3        | 1       | 2        | 4      | . | . | 48    |
| Hepatitis C (chronic)                     | 63       | 4     | 4     | 31     | 12       | 2       | 4        | 17     | . | . | 137   |
| Hepatitis C - Perinatal Infection         | .        | .     | .     | .      | 1        | 1       | .        | .      | . | . | 2     |
| Influenza-associated hospitalization      | 10       | .     | 1     | 3      | 5        | .       | .        | 2      | . | . | 21    |
| Legionellosis                             | 1        | .     | .     | .      | 1        | .       | .        | 1      | . | . | 3     |
| Lyme Disease                              | 5        | .     | 1     | 2      | 1        | .       | .        | 1      | . | . | 10    |
| MIS-C associated with COVID-19            | .        | .     | .     | 1      | .        | .       | .        | .      | . | . | 1     |
| Meningitis (aseptic/viral)                | 5        | .     | .     | .      | .        | .       | .        | .      | . | . | 5     |
| Meningitis (bacterial)                    | 2        | .     | .     | 1      | .        | .       | .        | .      | . | . | 3     |
| Monkeypox                                 | 1        | .     | .     | .      | .        | .       | .        | .      | . | . | 1     |
| Pertussis                                 | .        | .     | .     | .      | .        | .       | 1        | 1      | . | . | 2     |
| Q fever (acute)                           | .        | .     | .     | 1      | .        | .       | .        | .      | . | . | 1     |
| Salmonellosis                             | 5        | .     | 2     | 2      | 1        | .       | .        | 1      | . | . | 11    |
| Shigellosis                               | 3        | .     | .     | .      | .        | .       | .        | .      | . | . | 3     |
| Streptococcal pneumoniae (invasive)       | 11       | .     | .     | 5      | 2        | 1       | 1        | 3      | . | . | 23    |
| Streptococcal toxic shock syndrome (STSS) | .        | .     | .     | .      | .        | .       | .        | 1      | . | . | 1     |

Table 2. Cases of Notifiable Diseases in Southwest Ohio as Reported in ODRS by County, February 2023, Continued

| Reportable Condition              | County     |          |           |           |           |          |           |           |  | Total      |
|-----------------------------------|------------|----------|-----------|-----------|-----------|----------|-----------|-----------|--|------------|
|                                   | Hamilton   | Adams    | Brown     | Butler    | Clermont  | Clinton  | Highland  | Warren    |  |            |
| Streptococcal, Group A (invasive) | 17         | .        | 2         | 3         | 2         | .        | .         | 3         |  | 27         |
| Syphilis                          | 14         | .        | 1         | 1         | 1         | .        | 1         | .         |  | 18         |
| Tuberculosis                      | 5          | .        | .         | .         | .         | .        | .         | .         |  | 5          |
| Varicella                         | 3          | .        | .         | 1         | 2         | .        | .         | 1         |  | 7          |
| Vibriosis                         | 1          | .        | .         | .         | .         | .        | .         | .         |  | 1          |
| Yersiniosis                       | 2          | .        | .         | 1         | .         | .        | .         | .         |  | 3          |
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| <b>Total</b>                      | <b>206</b> | <b>6</b> | <b>15</b> | <b>72</b> | <b>37</b> | <b>5</b> | <b>15</b> | <b>40</b> |  | <b>396</b> |

Table 3. YTD Cases of Notifiable Diseases in Southwest Ohio as Reported in ODRS by County, February 2023

| Reportable Condition                 | County   |       |       |        |          |         |          |        |    |     | Total |
|--------------------------------------|----------|-------|-------|--------|----------|---------|----------|--------|----|-----|-------|
|                                      | Hamilton | Adams | Brown | Butler | Clermont | Clinton | Highland | Warren |    |     |       |
| C. auris                             | 12       | 0     | 0     | 0      | 0        | 0       | 0        | 0      | 0  | 0   | 12    |
| C. auris - Investigation             | 17       | 0     | 1     | 0      | 3        | 0       | 0        | 0      | 0  | 2   | 23    |
| CP-CRE                               | 9        | 4     | 0     | 2      | 1        | 2       | 1        | 1      | 1  | 1   | 20    |
| CP-CRE - Investigation               | 0        | 0     | 0     | 0      | 0        | 0       | 1        | 0      | 0  | 0   | 1     |
| Campylobacteriosis                   | 15       | 1     | 0     | 4      | 8        | 0       | 2        | 2      | 2  | 2   | 32    |
| Coccidioidomycosis                   | 2        | 0     | 0     | 0      | 1        | 0       | 0        | 0      | 0  | 0   | 3     |
| Cryptosporidiosis                    | 5        | 0     | 0     | 1      | 0        | 0       | 0        | 2      | 2  | 0   | 8     |
| Dengue                               | 1        | 0     | 0     | 0      | 0        | 0       | 0        | 0      | 0  | 0   | 1     |
| E.Coli (shiga toxin producing)       | 7        | 0     | 0     | 2      | 0        | 0       | 0        | 0      | 0  | 0   | 9     |
| Giardiasis                           | 7        | 0     | 0     | 2      | 0        | 0       | 0        | 0      | 2  | 2   | 11    |
| Haemophilus influenzae (invasive)    | 23       | 0     | 2     | 3      | 2        | 0       | 1        | 1      | 1  | 1   | 32    |
| Hepatitis A                          | 2        | 0     | 0     | 2      | 0        | 0       | 2        | 1      | 1  | 1   | 7     |
| Hepatitis B (acute)                  | 3        | 0     | 0     | 0      | 0        | 0       | 0        | 0      | 0  | 0   | 3     |
| Hepatitis B (chronic)                | 41       | 3     | 2     | 23     | 5        | 1       | 4        | 5      | 5  | 84  |       |
| Hepatitis C (chronic)                | 126      | 8     | 16    | 58     | 27       | 6       | 8        | 29     | 29 | 278 |       |
| Hepatitis C - Perinatal Infection    | 0        | 0     | 0     | 0      | 1        | 1       | 0        | 0      | 0  | 2   |       |
| Influenza-associated hospitalization | 49       | 0     | 12    | 22     | 24       | 2       | 11       | 10     | 10 | 130 |       |
| Legionellosis                        | 1        | 0     | 0     | 0      | 2        | 0       | 0        | 1      | 1  | 4   |       |
| Lyme Disease                         | 7        | 3     | 2     | 2      | 2        | 0       | 1        | 1      | 1  | 18  |       |
| MIS-C associated with COVID-19       | 0        | 0     | 0     | 1      | 0        | 0       | 0        | 0      | 0  | 1   |       |
| Meningitis (aseptic/viral)           | 7        | 0     | 0     | 2      | 0        | 0       | 0        | 0      | 0  | 9   |       |
| Meningitis (bacterial)               | 2        | 0     | 0     | 1      | 0        | 0       | 0        | 1      | 1  | 4   |       |
| Meningococcal disease                | 1        | 0     | 0     | 0      | 0        | 0       | 0        | 0      | 0  | 1   |       |
| Monkeypox                            | 1        | 0     | 0     | 0      | 0        | 0       | 0        | 0      | 0  | 1   |       |
| Mumps                                | 0        | 0     | 0     | 1      | 0        | 0       | 0        | 0      | 0  | 1   |       |
| Pertussis                            | 0        | 0     | 0     | 0      | 0        | 0       | 1        | 1      | 1  | 2   |       |
| Q fever (acute)                      | 0        | 0     | 0     | 1      | 0        | 0       | 0        | 0      | 0  | 1   |       |
| Salmonellosis                        | 6        | 0     | 2     | 7      | 4        | 0       | 0        | 3      | 3  | 22  |       |
| Shigellosis                          | 4        | 0     | 0     | 1      | 0        | 0       | 0        | 0      | 0  | 5   |       |
| Streptococcal pneumoniae (invasive)  | 23       | 0     | 2     | 10     | 7        | 2       | 1        | 6      | 6  | 51  |       |

Table 3. YTD Cases of Notifiable Diseases in Southwest Ohio as Reported in ODRS by County, February 2023, Continued

| Reportable Condition                      | County     |           |           |            |           |           |           |           |   |  | Total      |
|---|------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|---|--|------------|
|   | Hamilton   | Adams     | Brown     | Butler     | Clermont  | Clinton   | Highland  | Warren    |   |  |            |
| Streptococcal toxic shock syndrome (STSS) | 0          | 0         | 0         | 0          | 0         | 0         | 0         | 0         | 1 |  | 1          |
| Streptococcal, Group A (invasive)         | 30         | 0         | 2         | 9          | 4         | 0         | 0         | 0         | 6 |  | 51         |
| Syphilis                                  | 39         | 1         | 1         | 9          | 2         | 0         | 1         | 0         | 0 |  | 53         |
| Tuberculosis                              | 8          | 0         | 0         | 1          | 0         | 0         | 0         | 0         | 0 |  | 9          |
| Varicella                                 | 6          | 0         | 0         | 3          | 2         | 0         | 1         | 1         | 1 |  | 13         |
| Vibriosis                                 | 1          | 0         | 0         | 0          | 0         | 0         | 0         | 0         | 0 |  | 1          |
| Yersiniosis                               | 3          | 0         | 0         | 3          | 0         | 0         | 0         | 0         | 0 |  | 6          |
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| <b>Total</b>                              | <b>458</b> | <b>20</b> | <b>42</b> | <b>170</b> | <b>95</b> | <b>14</b> | <b>35</b> | <b>76</b> |   |  | <b>910</b> |

Table 4. YTD Cases of Notifiable Diseases in Hamilton County<sup>8</sup>, February 2023

| Reportable Disease                   | February 2022 | YTD 2022 | February 2023 | YTD 2023 | Reportable Disease                  | February 2022 | YTD 2022 | February 2023 | YTD 2023 |
|--------------------------------------|---------------|----------|---------------|----------|-------------------------------------|---------------|----------|---------------|----------|
| C. auris                             | 0             | 0        | 3             | 12       | MIS-C associated with COVID-19      | 3             | 7        | 0             | 0        |
| C. auris - Investigation             | 0             | 0        | 4             | 17       | Malaria                             | 3             | 5        | 0             | 0        |
| CP-CRE                               | 4             | 6        | 5             | 8        | Meningitis (aseptic/viral)          | 5             | 6        | 5             | 7        |
| Campylobacteriosis                   | 2             | 2        | 7             | 15       | Meningitis (bacterial)              | 1             | 2        | 2             | 2        |
| Coccidioidomycosis                   | 0             | 0        | 1             | 2        | Meningococcal disease               | 0             | 0        | 0             | 1        |
| Creutzfeldt-Jakob Disease            | 0             | 1        | 0             | 0        | Monkeypox                           | 0             | 0        | 1             | 1        |
| Cryptosporidiosis                    | 1             | 1        | 2             | 5        | Psittacosis                         | 0             | 1        | 0             | 0        |
| E.Coli (shiga toxin producing)       | 0             | 1        | 2             | 7        | Salmonellosis                       | 3             | 7        | 5             | 6        |
| Giardiasis                           | 6             | 12       | 4             | 7        | Shigellosis                         | 2             | 4        | 3             | 4        |
| Haemophilus influenzae (invasive)    | 2             | 3        | 6             | 23       | Spotted Fever Rickettsiosis (RMSF)  | 2             | 2        | 0             | 0        |
| Hepatitis A                          | 4             | 8        | 1             | 2        | Streptococcal pneumoniae (invasive) | 3             | 7        | 11            | 23       |
| Hepatitis B (acute)                  | 0             | 1        | 1             | 3        | Streptococcal, Group A (invasive)   | 5             | 11       | 17            | 30       |
| Hepatitis B (chronic)                | 21            | 51       | 22            | 41       | Syphilis                            | 19            | 34       | 14            | 39       |
| Hepatitis C (acute)                  | 1             | 4        | 0             | 0        | Tuberculosis                        | 5             | 7        | 5             | 8        |
| Hepatitis C (chronic)                | 85            | 159      | 63            | 126      | Varicella                           | 3             | 3        | 3             | 6        |
| Hepatitis C - Perinatal Infection    | 1             | 2        | 0             | 0        | Vibriosis                           | 0             | 0        | 1             | 1        |
| Influenza-associated hospitalization | 2             | 4        | 10            | 49       | Yersiniosis                         | 0             | 0        | 2             | 3        |
| Legionellosis                        | 0             | 0        | 1             | 1        |                                     |               |          |               |          |
| Lyme Disease                         | 7             | 10       | 5             | 7        |                                     |               |          |               |          |
|                                      |               |          |               |          |                                     |               |          |               |          |
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\*Year to date totals for cases within the Hamilton County Public Health jurisdiction

## SARS-CoV-2 (COVID-19) Outbreak

Chinese Health Officials identified the novel coronavirus, now known as SARS-CoV-2 or COVID-19, in December, 2019. Due to rapid global spread of disease, the World Health Organization declared COVID-19 a pandemic March 11, 2020. The United States identified its first case of COVID-19 January 21, 2020 and declared COVID-19 a national emergency March 13, 2020. Outbreak confirmed and probable cases increased rapidly between March and April, 2020. After remaining steady through May and June, 2020, Ohio experienced a spike in confirmed and probable cases in July, 2020. After a decrease in cases through August and September, 2020, Ohio experienced a significant spike in November and December, 2020. Cases began to decrease in January, 2021 and continued to decline through June, 2021, with the exception of a slight increase in cases in April, 2021. From July through September 2021 Ohio experienced an increase in confirmed and probable cases. After a decline in October 2021, Ohio experienced a rapid increase from November, 2021 through January, 2022. In 2022 Ohio experienced increasing cases from April to July and from October to December. The Southwest Ohio (SWOH) counties recognize the same patten of confirmed and probable cases as Ohio. As of February 28, 2023, cases in Ohio and SWOH are decreasing. The SWOH region accounts for 537,415 (15.9%) of confirmed and probable cases in Ohio.

In February 2023, the SWOH rate was lower than the Ohio rate (Figure 3). Brown County had the highest rate of the 8 SWOH counties, followed by Adams County and Clermont County. All SWOH county rates were lower than the Ohio rate.

Figure 2. Number of Confirmed and Probable Cases of COVID-19 in Ohio and Southwest Ohio Counties, February 2022 - February 2023

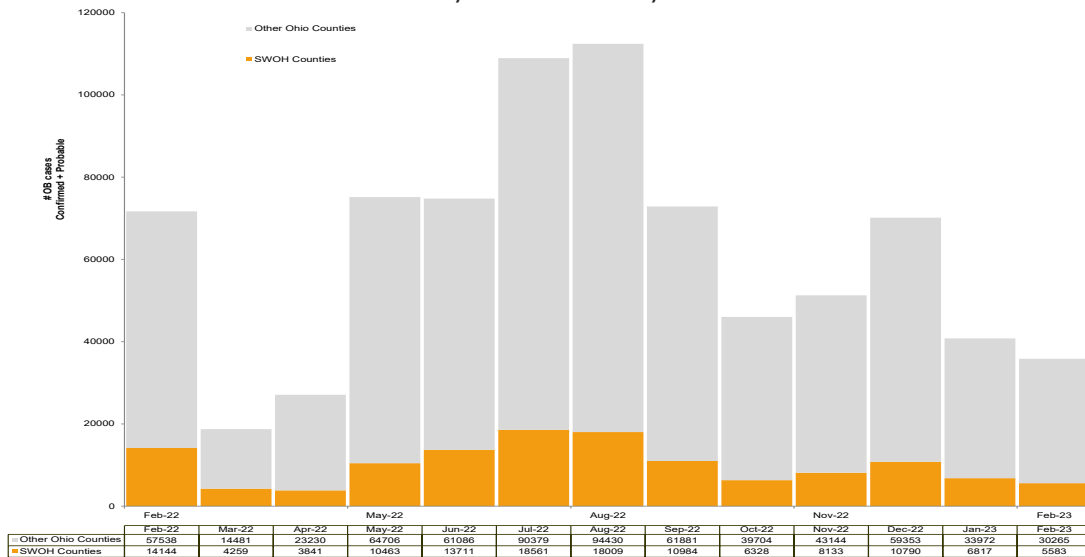
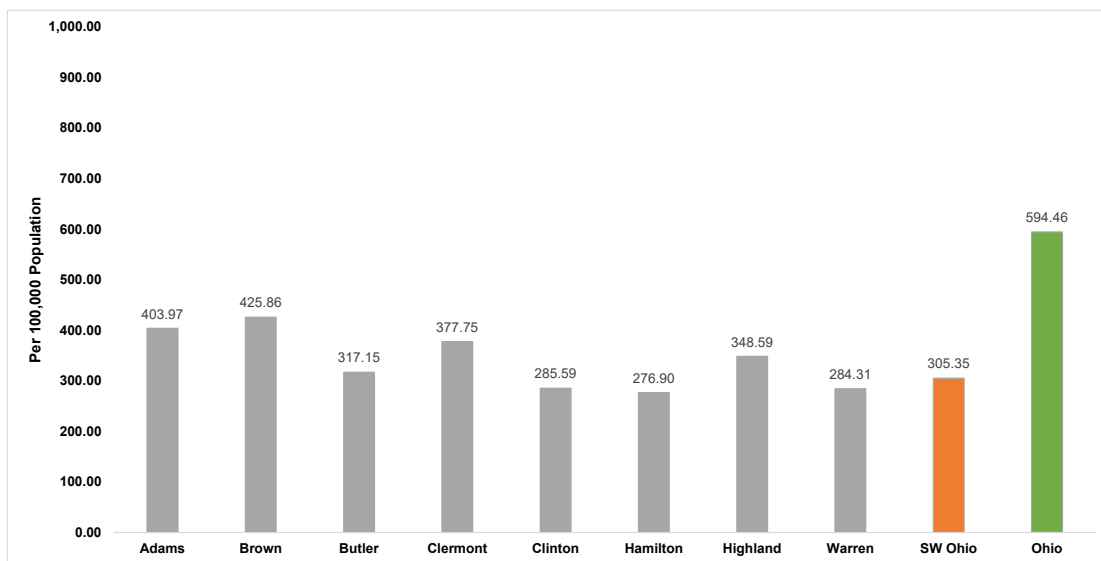


Figure 3. Rate of Confirmed and Probable Cases of COVID-19 in Ohio and Southwest Ohio Counties, February 2023

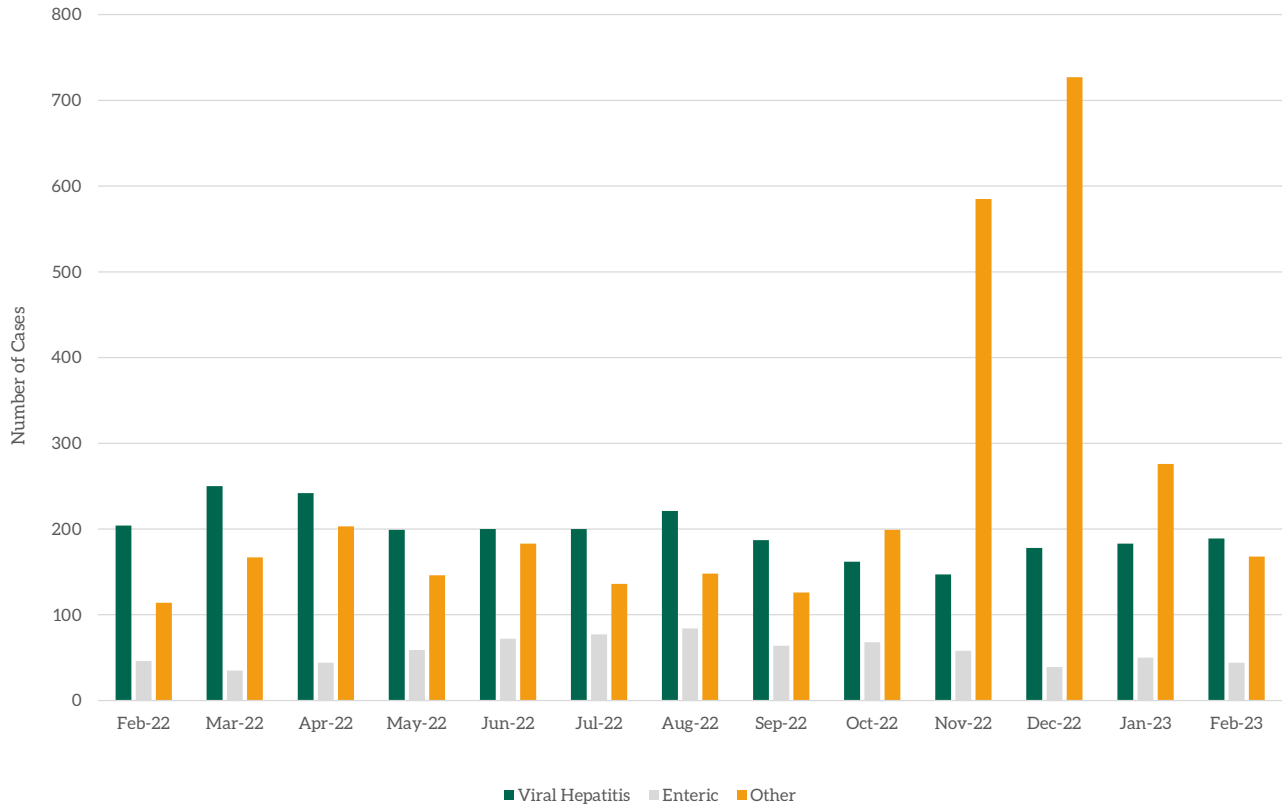


NOTES: This data is provisional and subject to change when additional information is gained. Outbreak confirmed positive cases between March 9, 2020 and February 28, 2023 were used for analysis. Cases were selected based on address at diagnosis. Confirmed and probable cases determined by date reported to local health department.

Source: Ohio Department of Health, Ohio Disease Reporting System. Data reported as of March 2, 2023. Outbreak confirmed and probable cases have to meet the criteria set by ODH. Detailed information regarding the statewide COVID-19 outbreak is available at: <https://coronavirus.ohio.gov/wps/portal/gov/covid-19/home>



Figure 4. Notifiable Communicable Diseases in Southwest Ohio by Disease Category as Reported in ODRS, February 2022 - February 2023\*



\*Suspected, Probable and Confirmed cases included in the counts. Cases counted by month reported to the local health department. STIs (i.e., Chlamydia, Gonorrhea, and Syphilis) are excluded from the analysis. Diseases are assigned to mutually exclusive categories, this means that disease cases are NOT included in more than one category shown in Figure 4. All cases are assigned to one of the categories.

# SYNDROMIC SURVEILLANCE

## Emergency Department Visits

**Number of EpiCenter alerts received: 12**

Types of EpiCenter alerts:

- Infectious Disease Symptoms (n=10)
- Syndromic Symptoms (n=2)

The alerts received for Hamilton County for February 1 - February 28 are summarized in Table 5 below. Three of the anomalies received in EpiCenter were dispositioned as Not a health event and one anomaly was dispositioned as Indeterminate. Botulinic, constitutional, and respiratory related syndromic hospital visits are presented for the entire month for Hamilton County in Figures 6, 7, and 8 respectively.

Table 5. Emergency Department Visit Anomalies for Hamilton County, February 2023

| Anomaly Classifier           | Event Date | Alert Category     | Analysis Method            | Aggregated By     | Actual Value | Predicted Value | Threshold Value | Final Disposition  |
|------------------------------|------------|--------------------|----------------------------|-------------------|--------------|-----------------|-----------------|--------------------|
| Shock                        | 2/28/2023  | Infectious Disease | Exponential Moving Average | Facility Location | 14           | 4.3             | 12.9            | Active             |
| Shock                        | 2/28/2023  | Infectious Disease | Cusum EMA                  | Facility Location | 14           | 4.3             | 12.4            | Active             |
| Shock                        | 2/28/2023  | Infectious Disease | Recursive Least Squares    | Facility Location | 13           | 4.0             | 11.6            | Active             |
| Paralysis                    | 2/20/2023  | Infectious Disease | Recursive Least Squares    | Home Location     | 17           | 7.2             | 16.4            | Active             |
| Stiff Neck                   | 2/20/2023  | Infectious Disease | Recursive Least Squares    | Facility Location | 14           | 6.0             | 13.5            | Active             |
| Hemorrhaging                 | 2/18/2023  | Infectious Disease | Recursive Least Squares    | Home Location     | 29           | 15.0            | 25.2            | Active             |
| Exacerbation                 | 2/17/2023  | Infectious Disease | Exponential Moving Average | Home Location     | 14           | 6.3             | 14.0            | Active             |
| Exacerbation                 | 2/17/2023  | Infectious Disease | Recursive Least Squares    | Home Location     | 14           | 6.5             | 12.5            | Active             |
| Vision                       | 2/7/2023   | Infectious Disease | Exponential Moving Average | Home Location     | 16           | 5.6             | 15.0            | Not a health event |
| Botulinic                    | 2/7/2023   | Syndromic          | Recursive Least Squares    | Home Location     | 18           | 6.3             | 16.4            | Not a health event |
| Botulinic                    | 2/7/2023   | Syndromic          | Exponential Moving Average | Home Location     | 18           | 6.2             | 16.7            | Not a health event |
| Diarrhea - Not Watery/Bloody | 2/4/2023   | Infectious Disease | Recursive Least Squares    | Facility Location | 22           | 11.9            | 21.2            | Indeterminate      |

Figure 6. Botulinic-related ED Visits, Hamilton County, Ohio, February 2023

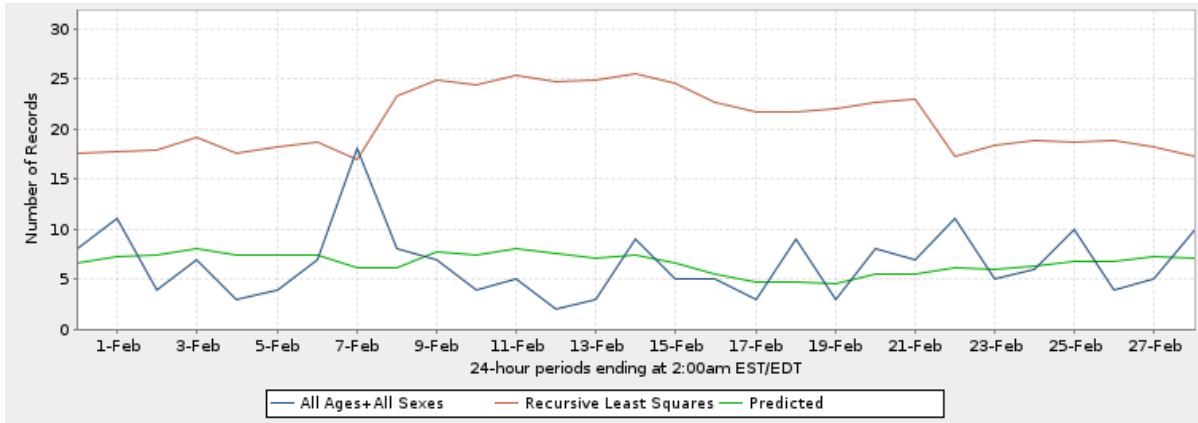


Figure 7. Constitutional-related ED Visits, Hamilton County, Ohio, February 2023

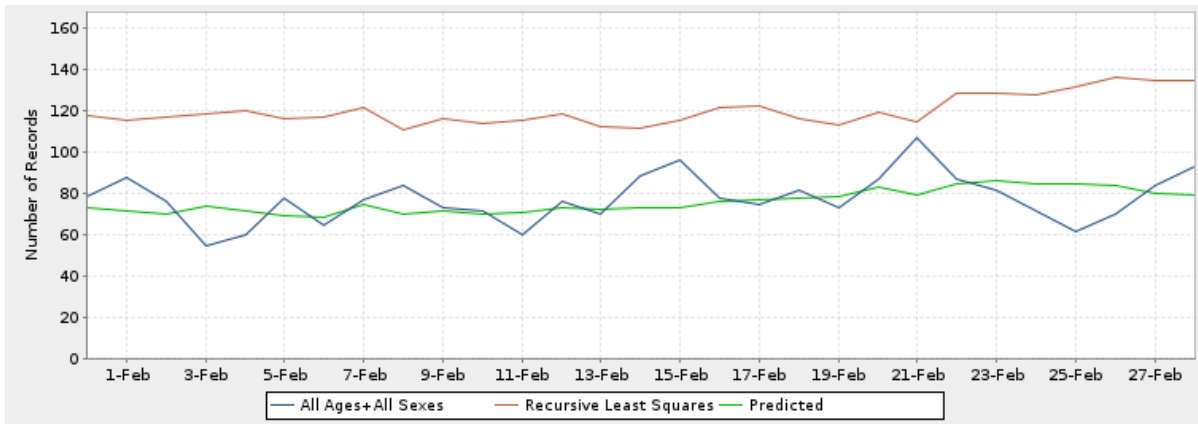


Figure 8. Respiratory-related ED Visits, Hamilton County, Ohio, February 2023

