

Ottawa County Respiratory Illness Report

Submitted for Publication October 25, 2024

Dates of data may vary.



Scan code or click [HERE](#) to tell us
what you think of this report

Executive Summary

Influenza (Flu)

Influenza activity in Ottawa County is low.

Influenza activity in [Michigan](#) and in the [United States](#) is low.

Coronavirus (COVID-19)

Ottawa County hospital occupancy indicators show a low percent of patients hospitalized with COVID-19; wastewater signals from Holland-Zeeland and Allendale are low and stable, and signals from Grand Haven-Spring Lake are low and decreasing.

Respiratory Syncytial Virus (RSV)

Ottawa County surveillance data shows that local RSV activity is low. RSV wastewater signals from Grand Haven-Spring Lake show minimal virus detection for the past few months, while Allendale wastewater data suggests some recent RSV activity which has since decreased.

Influenza Surveillance

MMWR Week 42: October 13, 2024 – October 19, 2024*

Influenza Test Positivity in the USA and Ottawa County

Figure 1: Influenza Test Positivity* by Week, Ottawa County and United States

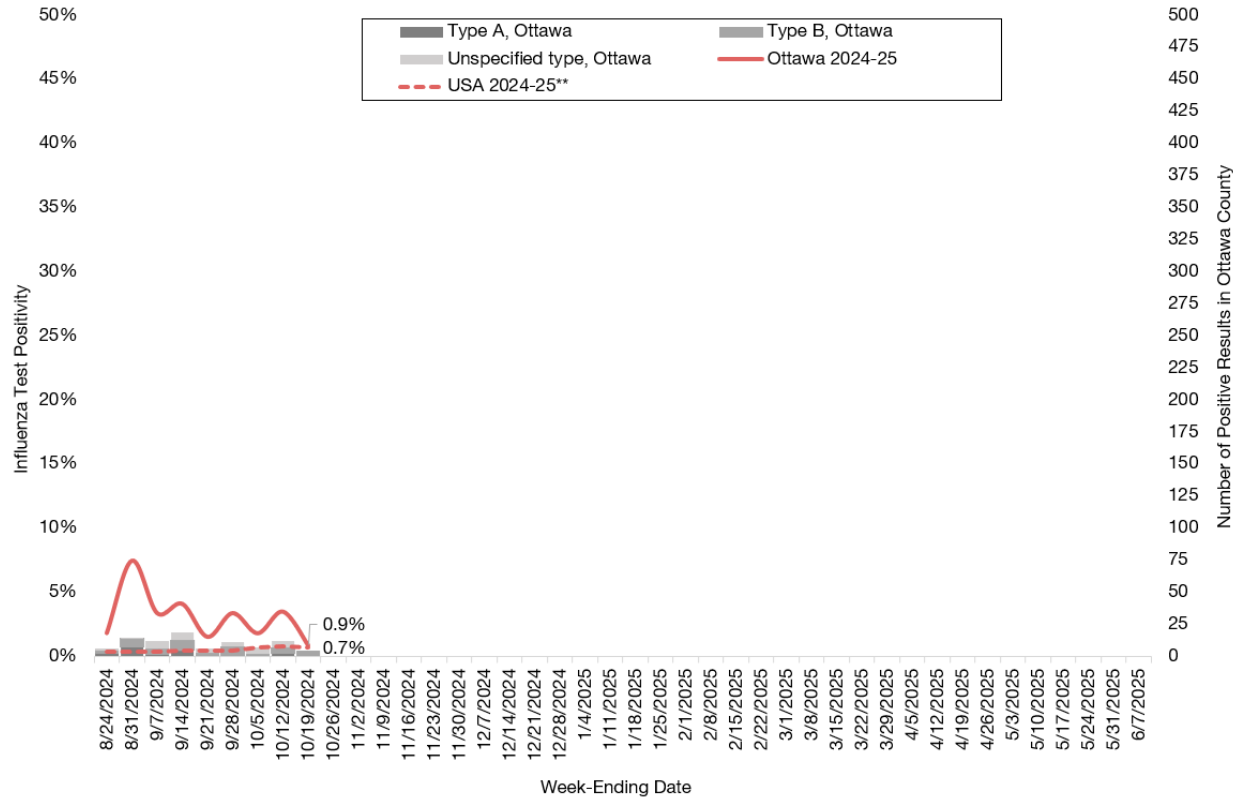


Table 1: Influenza Positive Tests Reported in Ottawa County – Last 8 Weeks

Week-Ending Date	Type A	Type B	Unspecified	Total Influenza	Total Tested	Positivity
8/31/2024	8	6	1	15	201	7.5%
9/7/2024	2	4	6	12	352	3.4%
9/14/2024	5	8	6	19	461	4.1%
9/21/2024	1	2	3	6	382	1.6%
9/28/2024	1	7	3	11	323	3.4%
10/5/2024	0	2	5	7	379	1.8%
10/12/2024	3	4	5	12	341	3.5%
10/19/2024	0	4	0	4	435	0.9%

*Influenza positivity is the percentage of reported tests performed that are positive, indicating community circulation.

**OCDPH reports 8/31/24–9/14/24 as part of the 2024-25 season, while CDC classifies them as 2023-24.

- During week 42, Ottawa County's influenza test positivity decreased to 0.9% (from 3.5% in week 41). The number of influenza tests increased by 28% from the previous week, from 341 to 435.
- National positivity for week 42 was 0.7%, with low overall activity.

Syndromic Surveillance for Influenza in Ottawa County

Figure 2: Percentage of Emergency Department (ED) and Urgent Care (UC) Visits with Influenza-like Illnesses (ILI)*

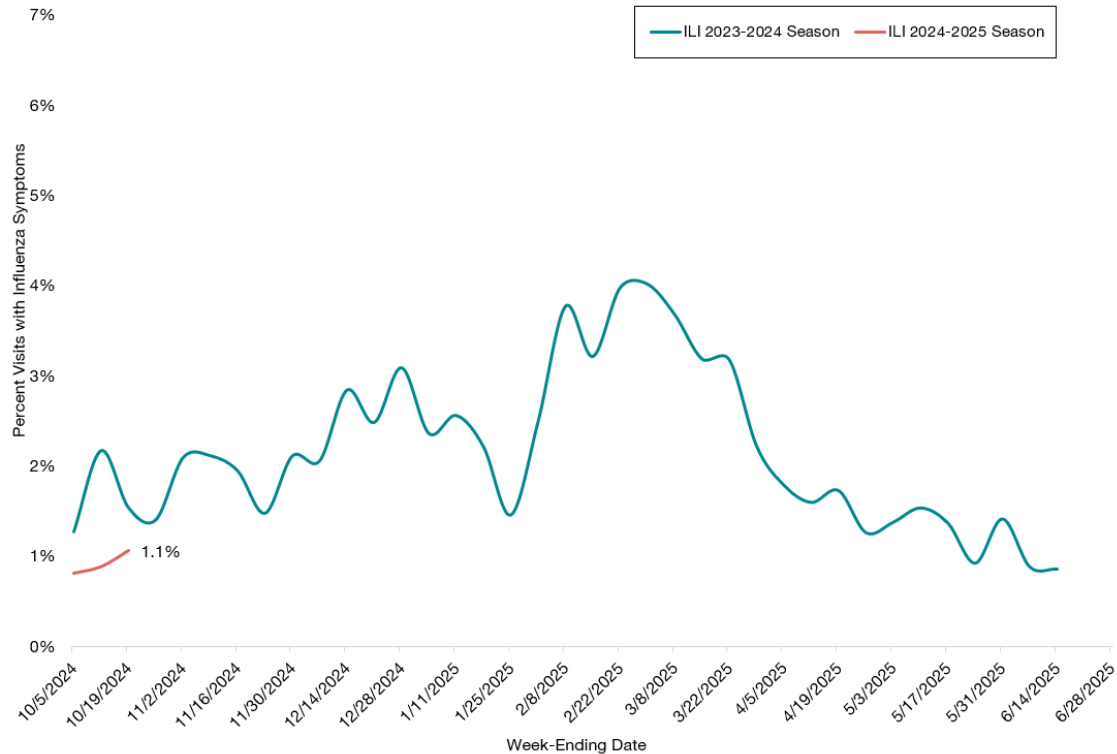


Table 2: Emergency Department and Urgent Care Visits with Influenza-like Illnesses – Last 3 Weeks

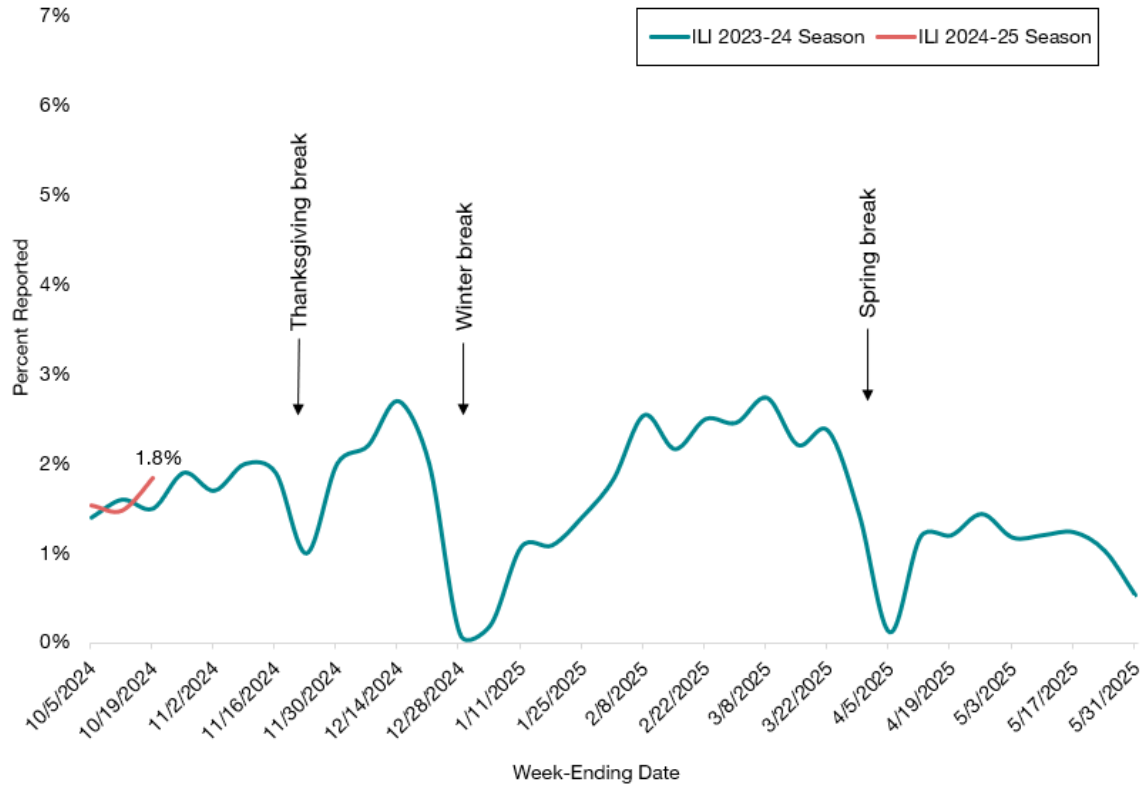
MMWR Week	Week-Ending Date	ILI Visits	Total ED/UC Visits	Percent of ED/UC Visits
40	10/5/2024	18	2220	0.8%
41	10/12/2024	19	2149	0.9%
42	10/19/2024	25	2350	1.1%

*Influenza-like illness include sudden onset of fever, cough and/or sore throat.

- During week 42, Ottawa County Emergency Department and Urgent Care visits with ILI reported increased slightly to 1.1% from 0.9% the previous week.

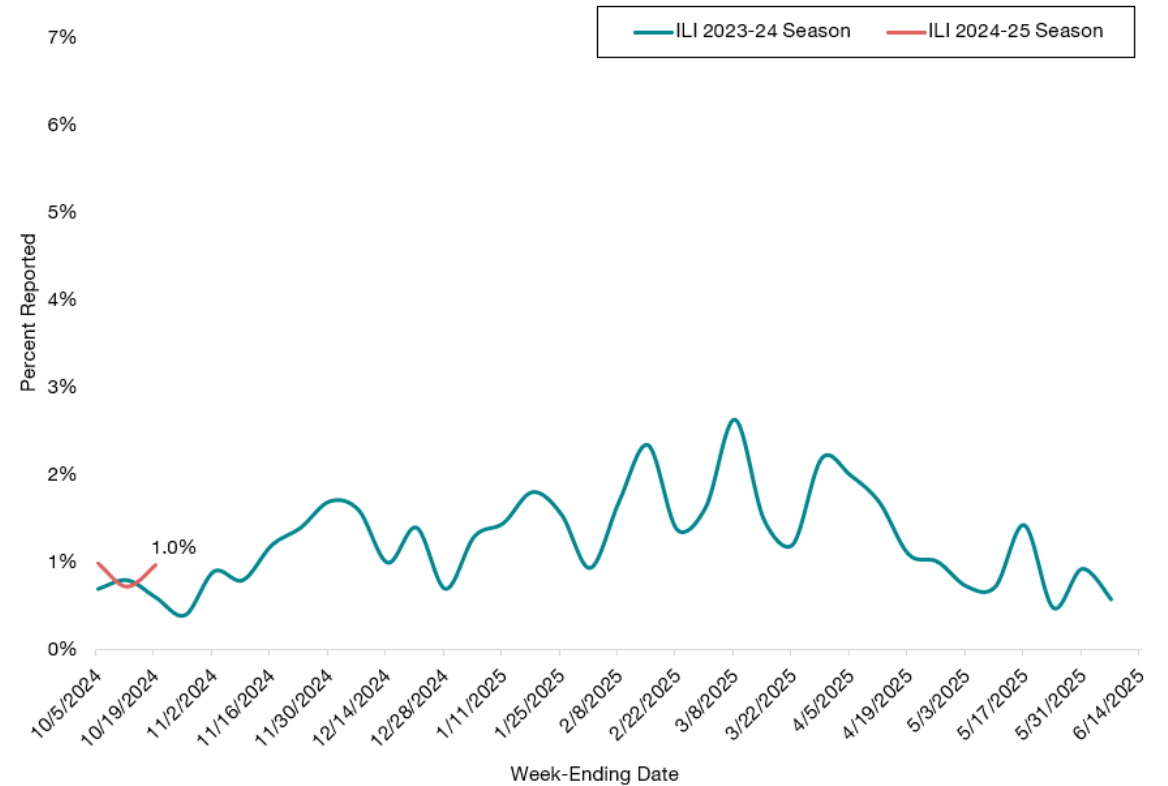
Influenza-Like Illness (ILI) Surveillance from Reporting Schools, Child Care, and Healthcare

Figure 3: Percent ILI in Schools and Child Care by Week



- During week 42, the proportion of ILI reported in school/child care settings was 1.8%.
- The proportion of ILI reported in week 41 is slightly higher than that reported at the same time last season (1.5%).

Figure 4: Percent Healthcare ILI Visits by Week



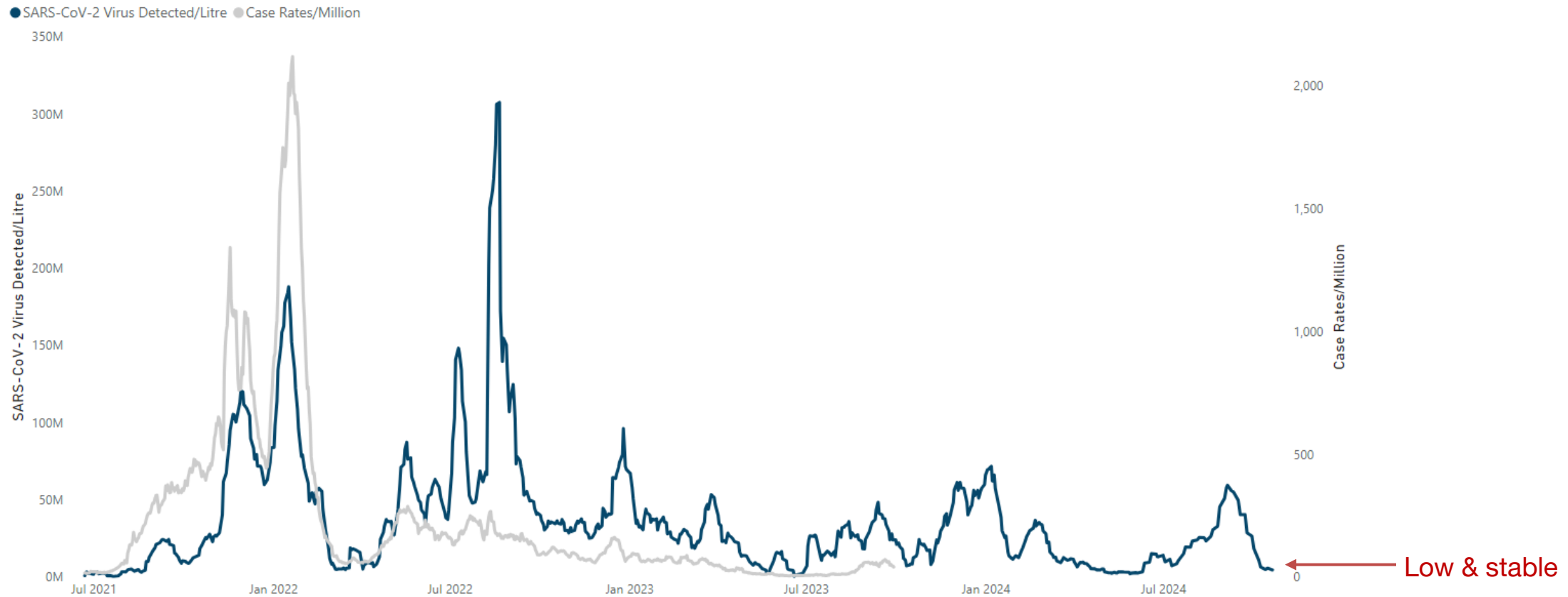
- Reported ILI in healthcare offices was 1.0% during week 42.
- There have been no reported influenza outbreaks in long-term care facilities (LTCFs) during the 2024-25 season in Ottawa County. No new LTCF influenza outbreaks were reported in week 42.

Coronavirus (COVID-19) Surveillance

Dates of data may vary.

Holland-Zeeland Wastewater Surveillance

SARS-CoV-2 Virus Detected/Litre by Sample Date With COVID-19 Case Rates/Million by Referral Date (7-Day Averages)



Data Interpretation: The **blue line** on the graph shows the 7-day average levels of SARS-CoV-2 virus (N2 markers) detected in wastewater sampled from treatment plants in Holland & Zeeland. The **gray line** on the graph represents the 7-day average COVID-19 case rates/million for all of Ottawa County by referral date.

Notes: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates. Display of wastewater data may change as analytical methods are refined. A data point from Zeeland collected June 23, 2022, was removed from data analysis as an extreme outlier. County case rate calculation was discontinued on September 27, 2023 due to limited resources to maintain data.

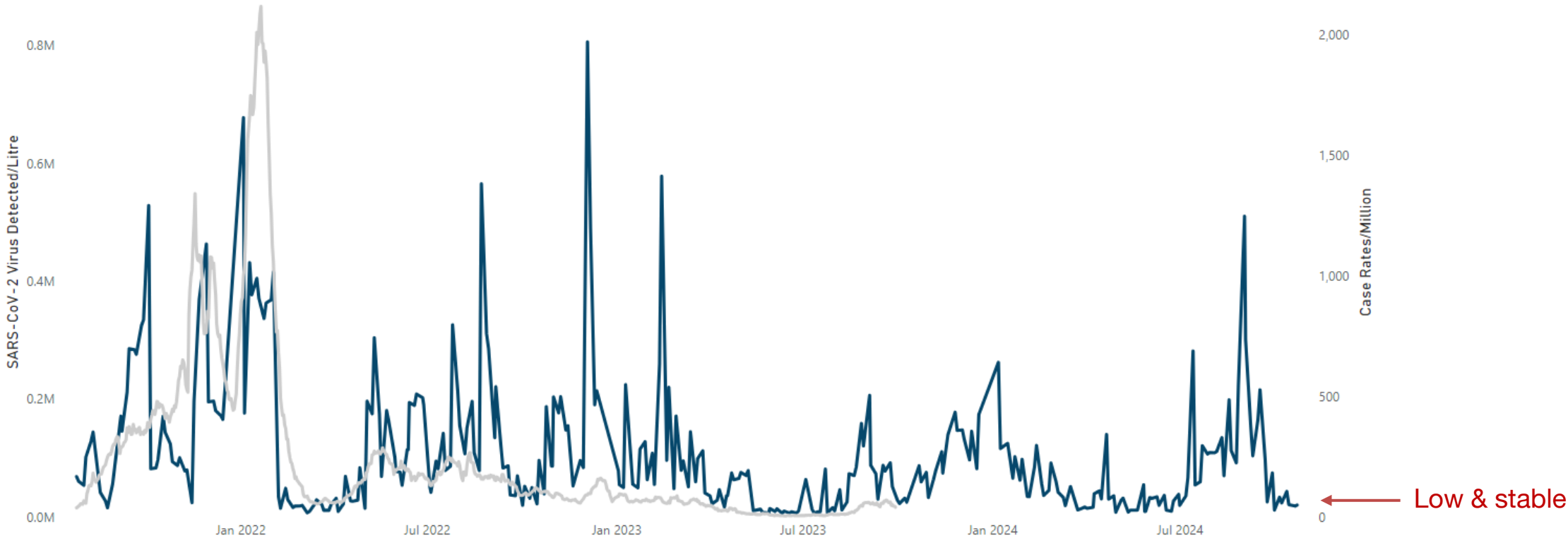
Source: Hope College Global Water Research Institute as part of the MDHHS SEWER-Network, Aaron Best, Ph.D. (best@hope.edu)

Additional Information: [Michigan COVID-19 Wastewater Surveillance Pilot Project \(arcgis.com\)](https://arcgis.com), [Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project \(SWEEP\) \(michigan.gov\)](https://michigan.gov)

Allendale Wastewater Surveillance

SARS-CoV-2 Virus Detected/Litre by Sample Date With COVID-19 Case Rates/Million by Referral Date (7-Day Averages)

● SARS-CoV-2 Virus Detected/Litre ● Case Rates/Million



Data Interpretation: The **blue line** on the graph shows the 7-day average levels of SARS-CoV-2 virus (N2 markers) detected in wastewater sampled from the treatment plant in Allendale. The **gray line** on the graph represents the 7-day average COVID-19 case rates/million for all of Ottawa County by referral date.

Notes: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates. Display of wastewater data may change as analytical methods are refined. County case rate calculation was discontinued on September 27, 2023 due to limited resources to maintain data.

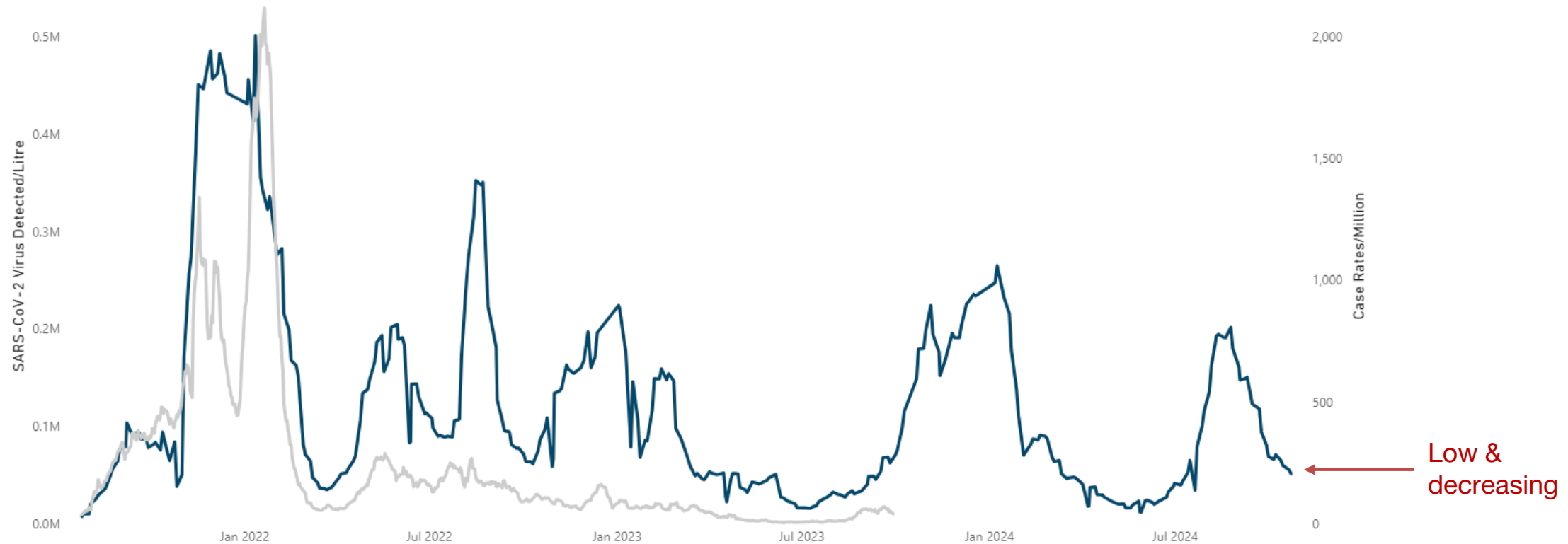
Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Ryan Otter, Ph.D. (otterr@gvsu.edu)

Additional Information: [Michigan COVID-19 Wastewater Surveillance Pilot Project \(arcgis.com\)](http://arcgis.com), [Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project \(SWEEP\) \(michigan.gov\)](http://michigan.gov)

Grand Haven-Spring Lake Wastewater Surveillance

SARS-CoV-2 Virus Detected/Litre by Sample Date With COVID-19 Case Rates/Million by Referral Date (7-Day Averages)

● SARS-CoV-2 Virus Detected/Litre ● Case Rates/Million



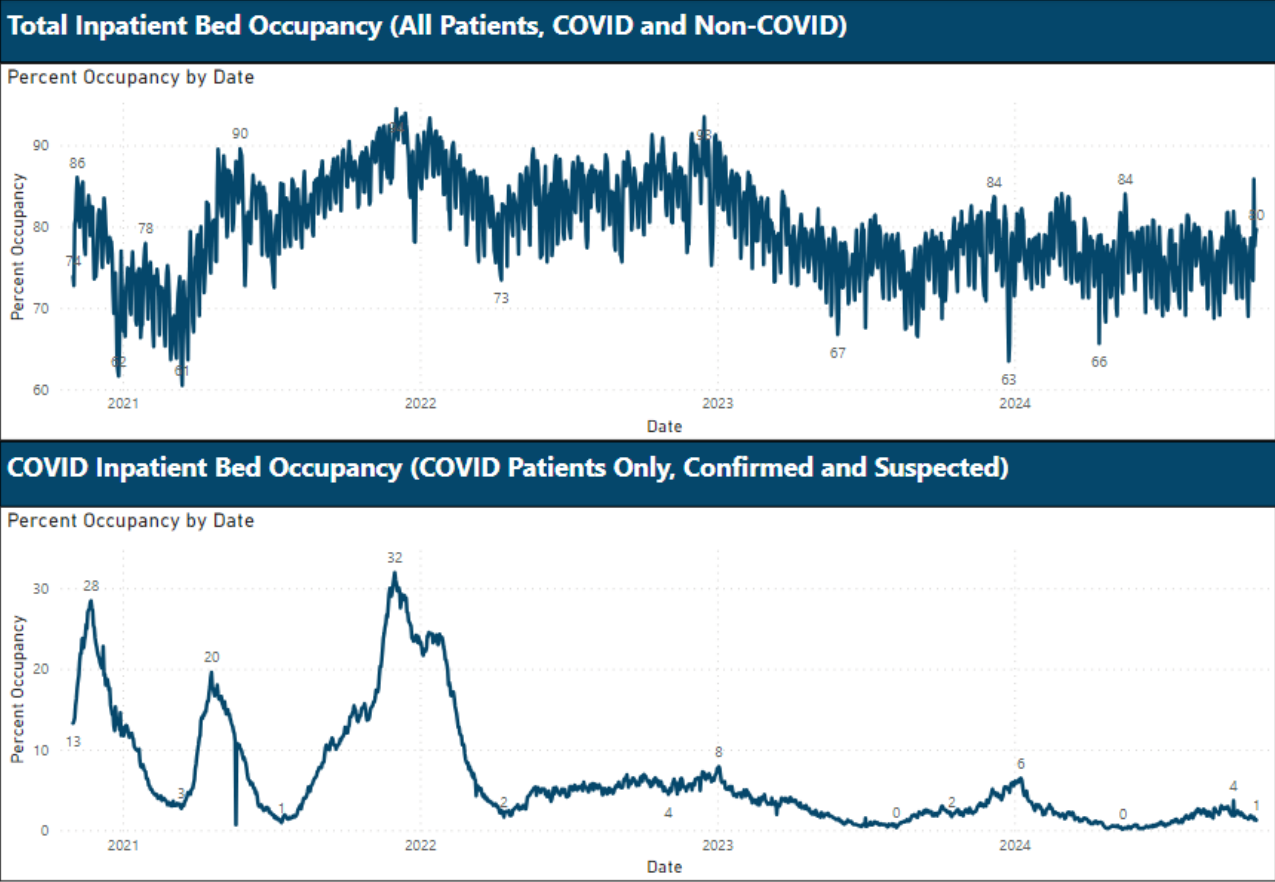
Data Interpretation: The **blue line** on the graph shows the 7-day average levels of SARS-CoV-2 virus (N2 markers) detected in wastewater sampled from the treatment plant in Grand Haven / Spring Lake. The **gray line** on the graph represents the 7-day average COVID-19 case rates/million for all of Ottawa County by referral date.

Notes: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates. Display of wastewater data may change as analytical methods are refined. County case rate calculation was discontinued on September 27, 2023 due to limited resources to maintain data.

Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Ryan Otter, Ph.D. (otterr@gvsu.edu)

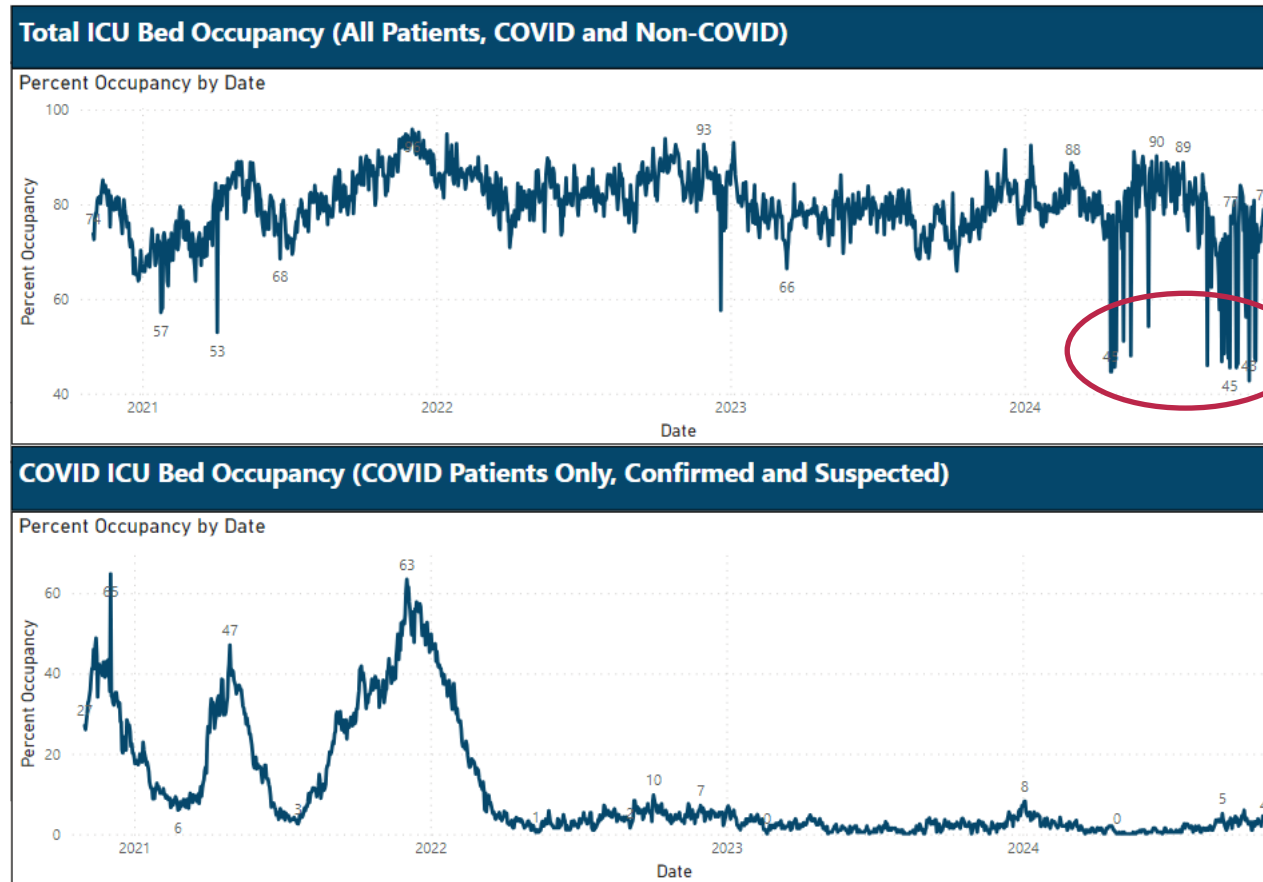
Additional Information: [Michigan COVID-19 Wastewater Surveillance Pilot Project \(arcgis.com\)](https://arcgis.com), [Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project \(SWEEP\) \(michigan.gov\)](https://michigan.gov)

Ottawa County Inpatient Bed Occupancy



- Total hospital bed occupancy is 80%.
- Currently, 1% of all inpatient beds are occupied by COVID-19 patients.

Ottawa County Intensive Care Unit (ICU) Bed Occupancy



ICU occupancy was artificially low due to data entry issues.

ICU = Intensive Care Unit

- Total ICU bed occupancy varies considerably by day. Currently, ICU bed occupancy is 79%.
- As of October 24, 2024, 4% of ICU beds were occupied by COVID-19 patients.

Respiratory Syncytial Virus (RSV) Surveillance

MMWR Week 42: October 13, 2024 – October 19, 2024

RSV Test Positivity in Ottawa County

Figure 6: RSV Test Positivity* by Week

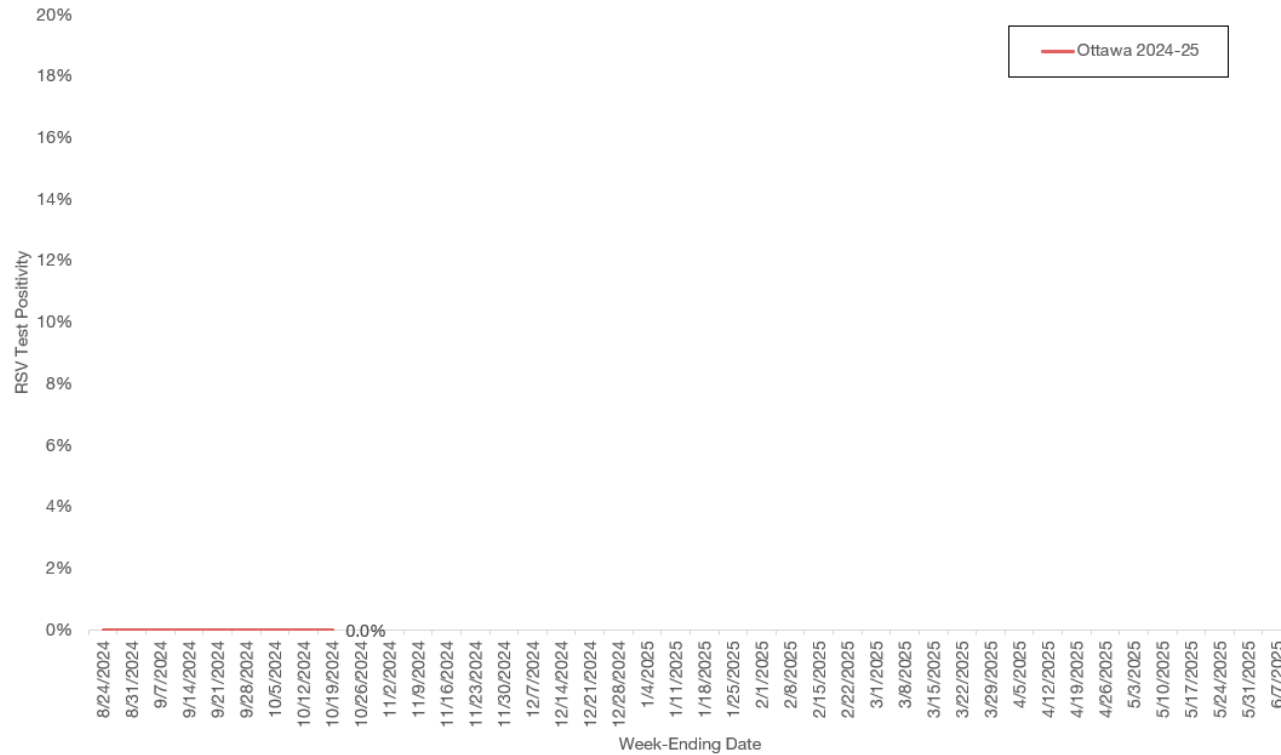


Table 5: RSV Positive Tests Reported – Last 8 Weeks

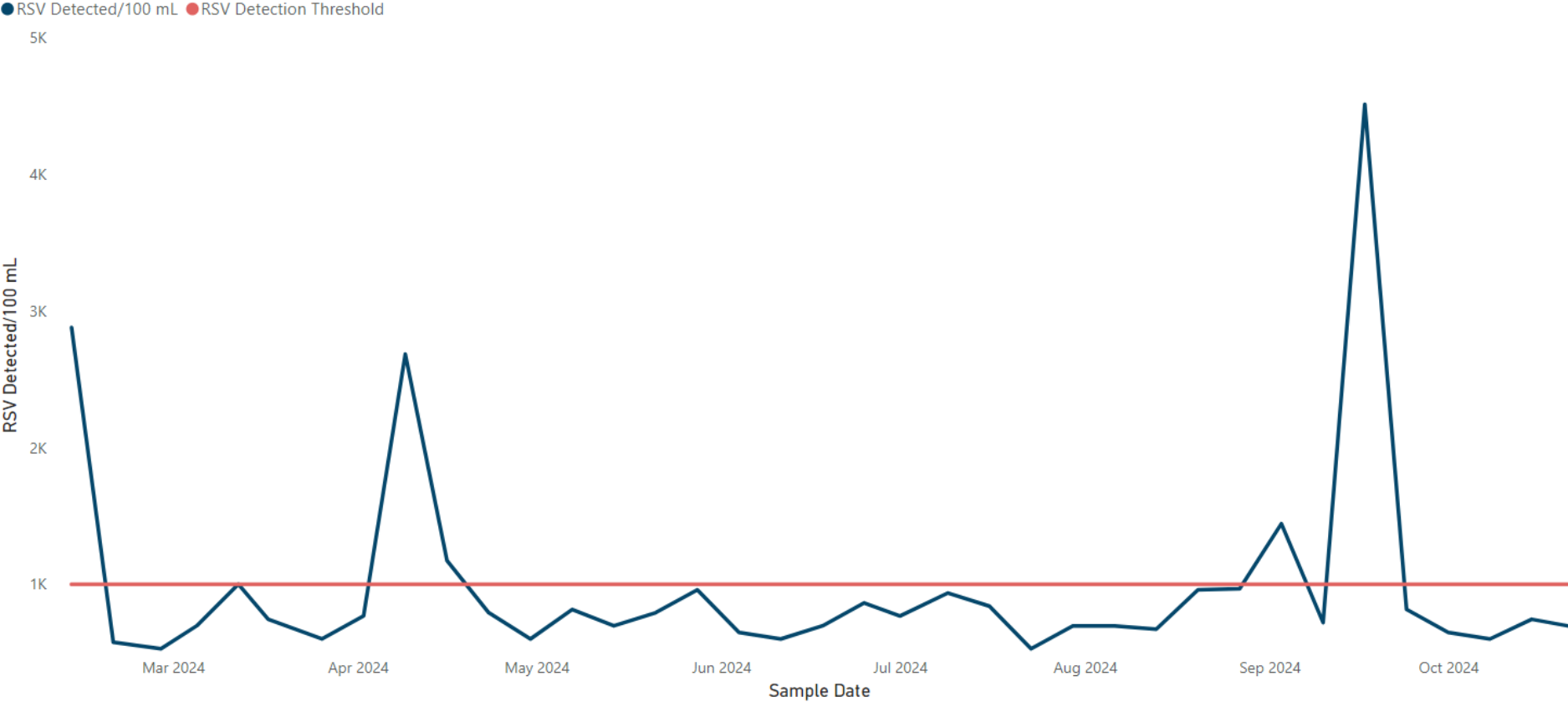
MMWR Week	Week-Ending Date	Total RSV	Total Tested	Positivity
35	8/31/2024	0	140	0.0%
36	9/7/2024	0	118	0.0%
37	9/14/2024	0	173	0.0%
38	9/21/2024	0	142	0.0%
39	9/28/2024	0	137	0.0%
40	10/5/2024	0	147	0.0%
41	10/12/2024	0	136	0.0%
42	10/19/2024	0	134	0.0%

*RSV positivity is the percent of reported RSV tests performed that are positive. Data includes predominately PCR results. Ottawa data is weekly percentages; data is not smoothed with 3- or 5-week moving averages.

- During week 42, Ottawa County RSV positivity remained at 0.0%.

Allendale Wastewater Surveillance

RSV Virus Detected/100 mL by Sample Date



Data Interpretation: The **blue line** on the graph shows the levels of RSV virus detected in wastewater sampled from the treatment plant in Allendale. The **coral line** on the graph represents the RSV detection threshold. Samples are currently being collected once a week.

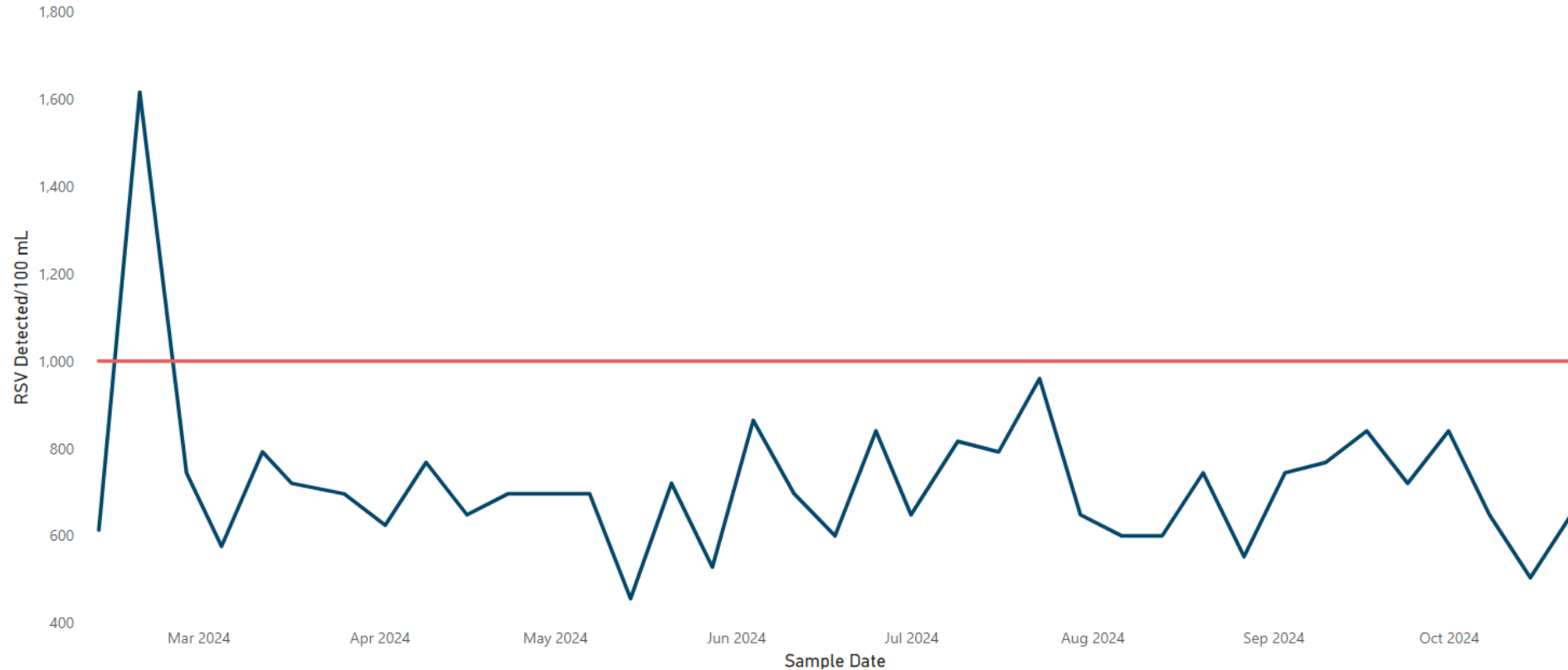
Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Ryan Otter, Ph.D. (otterr@gvsu.edu)

Additional Information: <https://www.otterlab.org/ottawa-plus-report>

Grand Haven-Spring Lake Wastewater Surveillance

RSV Virus Detected/100 mL by Sample Date

● RSV Detected/100 mL ● RSV Detection Threshold



Data Interpretation: The **blue line** on the graph shows the levels of RSV virus detected in wastewater sampled from the treatment plant in Allendale. The **coral line** on the graph represents the RSV detection threshold. Samples are currently being collected once a week.

Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Ryan Otter, Ph.D. (otterr@gvsu.edu)

Additional Information: <https://www.otterlab.org/ottawa-plus-report>

RSV Test Positivity in the United States and Michigan

Figure 7: RSV Test Positivity* by Week, United States

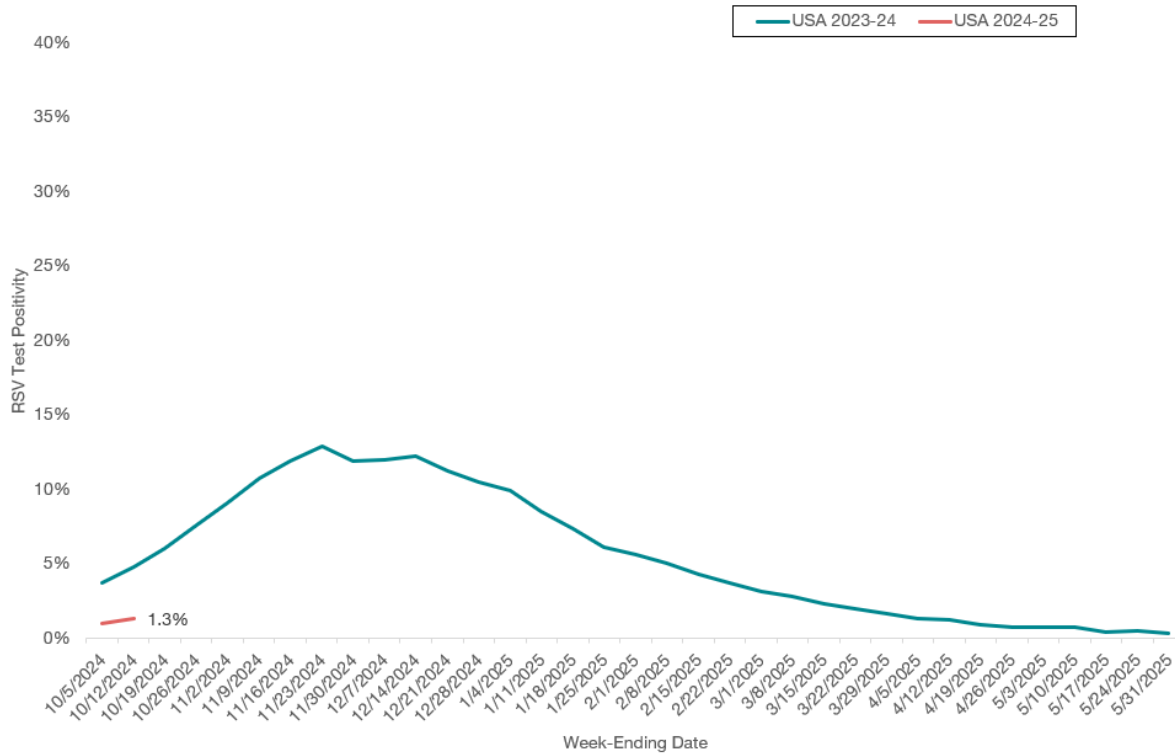
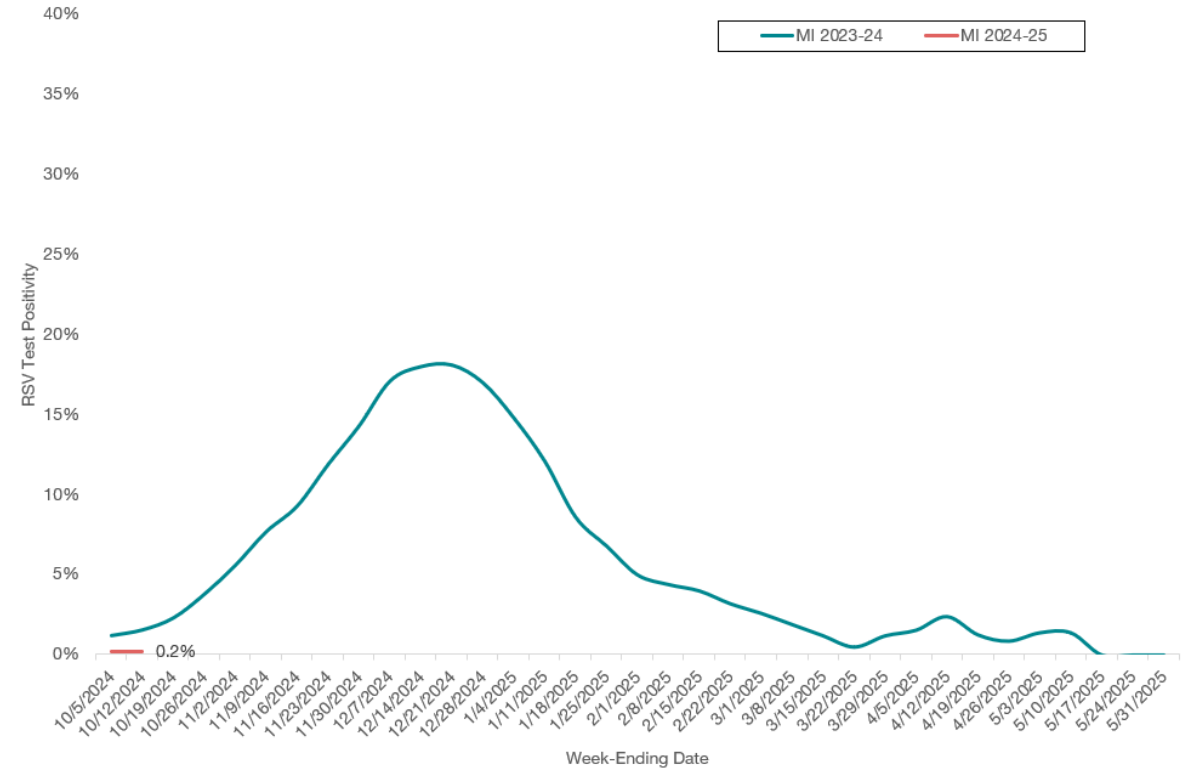


Figure 7: RSV Test Positivity* by Week, Michigan



*RSV positivity is the percent of reported RSV PCR tests performed that are positive. Michigan data displayed are 3-week moving averages. US data displayed are 5-week moving averages.

Note: Due to reporting delays, recent statistics may be updated as more data is obtained.

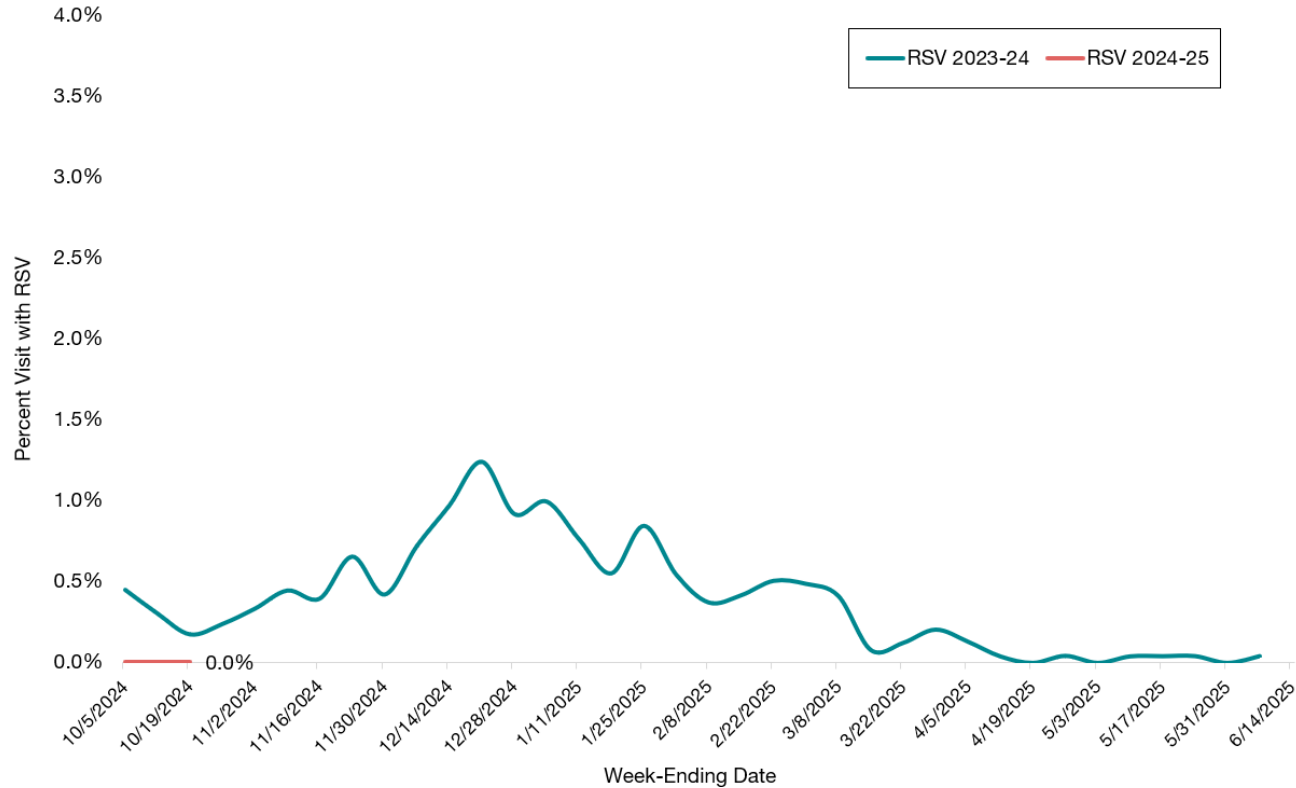
During week 41**, RSV positivity in the US was 1.3%, lower than the 2023-2024 season at the same time (4.8%).

During week 41**, RSV positivity in Michigan was 0.2%, lower than the 2023-2024 season at the same time (1.6%).

**Week 42 (week-ending October 19, 2024) data was not available at the time of publication.

Syndromic Surveillance for RSV in Ottawa County

Figure 8: Percentage of Emergency Department (ED) and Urgent Care (UC) Visits with Respiratory Syncytial Virus (RSV) Illness



Note: Data includes all ages.

Table 6: Emergency Department and Urgent Care Visits with RSV Illnesses in Ottawa County – Last 3 Weeks

MMWR Week	Week-Ending Date	RSV Visits	Total ED/UC Visits	Percent of ED/UC Visits
40	10/5/2024	0	2220	0.0%
41	10/12/2024	1	2149	0.0%
42	10/19/2024	1	2350	0.0%

- During week 41, Ottawa County Emergency Department and Urgent Care visits with RSV illnesses remained at 0.0%.

Additional Resources

Influenza (Flu):

- National influenza surveillance data are available at: <https://www.cdc.gov/fluview/surveillance/2024-week-36.html>
- Statewide influenza surveillance reports are available at: <https://www.michigan.gov/flu/surveillance/past-michigan-flu-focus-surveillance-reports>
- State and county level influenza vaccination coverage data are available at: <https://www.michigan.gov/flu/flu-dashboard>
- Disease burden of flu in the United States: https://www.cdc.gov/flu-burden/php/about/index.html?CDC_AAref_Val=https://www.cdc.gov/flu/about/burden/index.html
- Preventing Seasonal Flu: <https://www.cdc.gov/flu/prevent/index.html>
- Seasonal flu vaccine effectiveness studies: https://www.cdc.gov/flu-vaccines-work/php/effectiveness-studies/?CDC_AAref_Val=https://www.cdc.gov/flu/vaccines-work/effectiveness-studies.htm
- Flu vaccine finder: <https://www.vaccines.gov/find-vaccines/>
- Healthy People 2030 Flu Vaccination Objective: [Increase the proportion of people who get the flu vaccine every year — IID-09 - Healthy People 2030 | health.gov](#)

Coronavirus (COVID-19) Resources:

- CDC COVID Data Tracker: <https://covid.cdc.gov/covid-data-tracker/#datatracker-home>
- Michigan COVID-19 Website: <https://www.michigan.gov/Coronavirus>
- Michigan Wastewater Dashboard: <https://www.michigan.gov/coronavirus/stats/wastewater-surveillance/dashboard/sentinel-wastewater-epidemiology-evaluation-project-sweep>

Respiratory Syncytial Virus (RSV) Resources:

- National RSV Information: <https://www.cdc.gov/rsv/index.html>
- Preventing RSV: https://www.cdc.gov/rsv/vaccines/?CDC_AAref_Val=https://www.cdc.gov/rsv/about/prevention.html
- National RSV surveillance data are available at: <https://www.cdc.gov/nrevss/php/dashboard/index.html>
- Michigan Respiratory Illness Dashboard: <https://www.michigan.gov/mdhhs/keep-mi-healthy/chronicdiseases/seasonal-respiratory-viruses/respiratory-disease-reports>

Data Sources

Influenza (Flu) and Influenza-Like Illness (ILI) Data Sources:

- USA Positivity Rate from Weekly U.S. Influenza Surveillance Report: https://www.cdc.gov/fluview/?CDC_AAref_Val=https://www.cdc.gov/flu/weekly/index.htm#ClinicalLaboratories
- Ottawa County Positivity Rate is calculated from data reported by providers and laboratories in the community through weekly reporting.
- ILI ED and UC visit data is from Michigan Syndromic Surveillance System (MSSS).
- ILI data in schools/childcare facilities is provided by facilities in the community through weekly reporting.
- ILI healthcare visit data is provided by providers and laboratories in the community through weekly reporting.
- Vaccination data from Michigan Flu Dashboard: <https://www.michigan.gov/flu/flu-dashboard>

Coronavirus (COVID-19) Data Sources:

- Inpatient and ICU Hospitalization data from EMResource.
- COVID-19 cases in schools/childcare facilities are reported by the facility through an online weekly reporting system.

Respiratory Syncytial Virus (RSV) Data Sources:

- National RSV surveillance data are available at: <https://www.cdc.gov/nrevss/php/dashboard/index.html>
- RSV ED and UC visit data is from Michigan Syndromic Surveillance System (MSSS).