

Ottawa County Respiratory Illness Report

Submitted for Publication November 1, 2024

Dates of data may vary.



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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, Allendale, and Grand Haven-Spring Lake are low.

Respiratory Syncytial Virus (RSV)

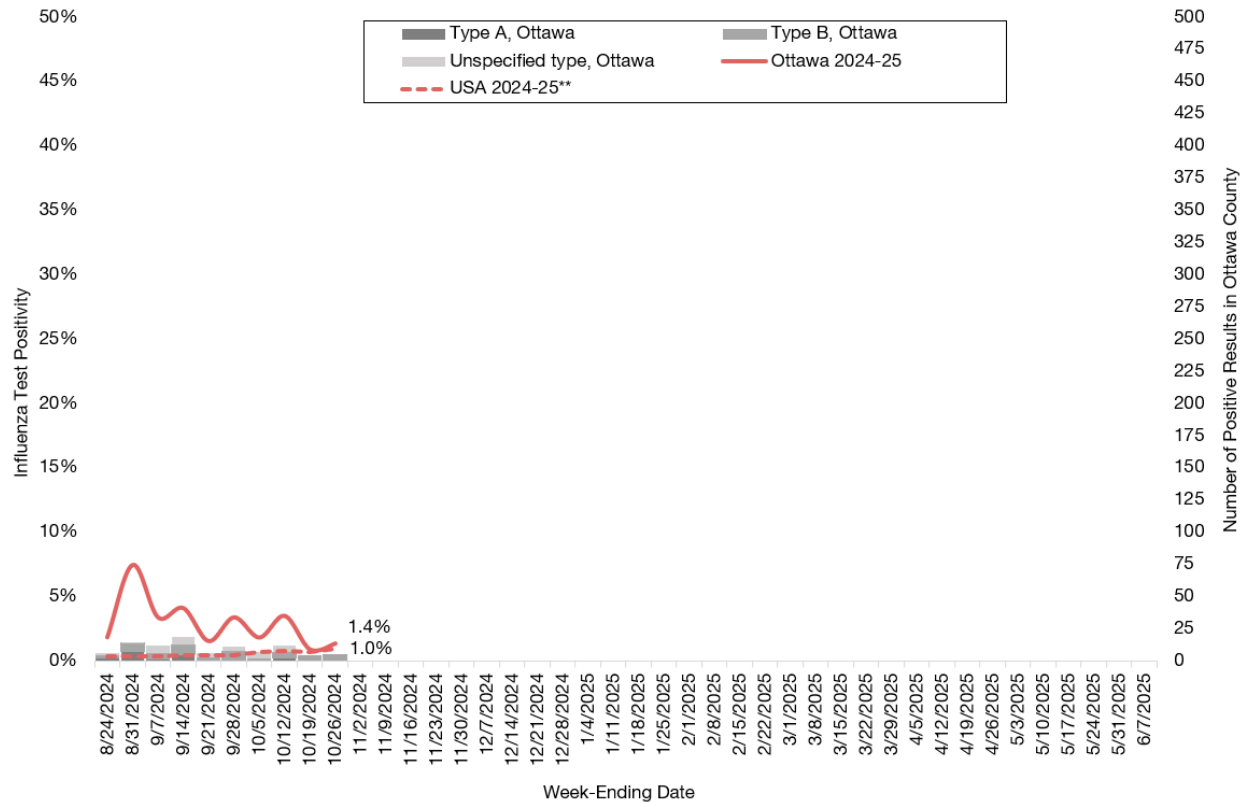
Ottawa County surveillance data suggest some local RSV activity, but signals remain low. RSV wastewater signals from Grand Haven-Spring Lake and Allendale show minimal recent virus detection.

Influenza Surveillance

MMWR Week 43: October 20, 2024 – October 26, 2024*

Influenza Test Positivity in the USA and Ottawa County

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



*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.

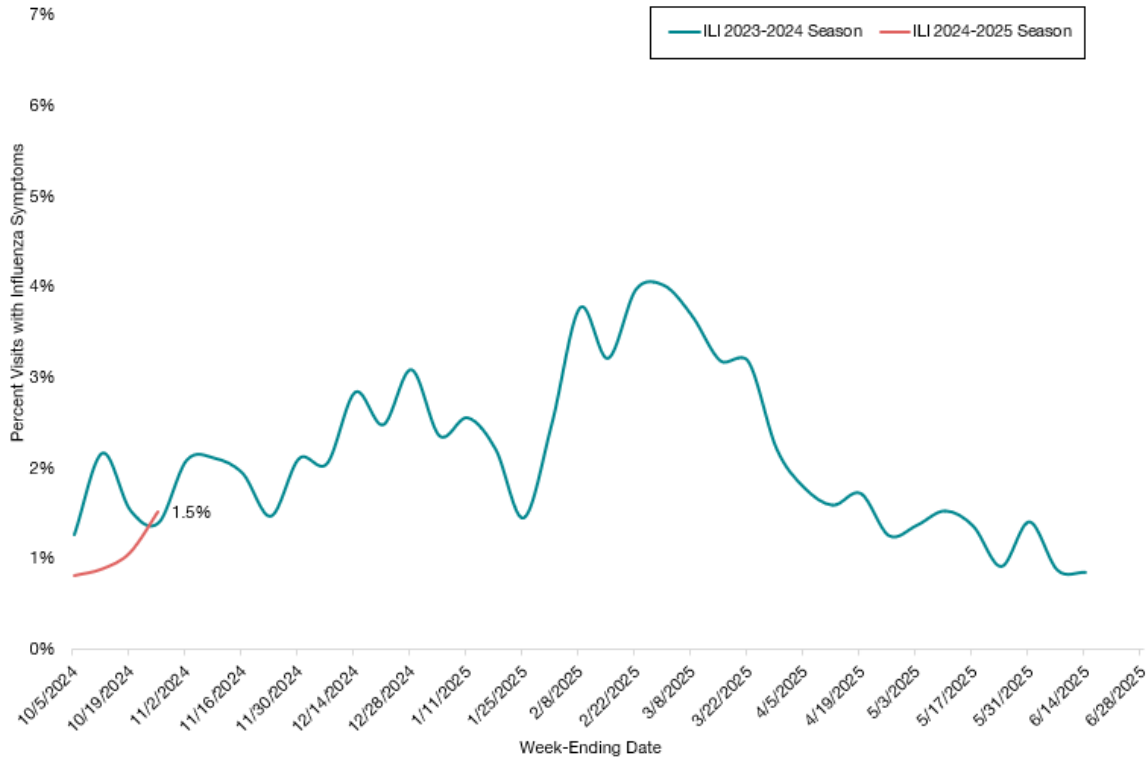
Table 1: Influenza Positive Tests Reported in Ottawa County – Last 8 Weeks

Week-Ending Date	Type A	Type B	Unspecified	Total Influenza	Total Tested	Positivity
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%
10/26/2024	1	4	0	5	361	1.4%

- During week 43, Ottawa County's influenza test positivity increased to 1.4% (from 0.9% in week 42). The number of influenza tests decreased by 17% from the previous week, from 435 to 361.
- National positivity for week 43 was 1.0%, 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)*



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

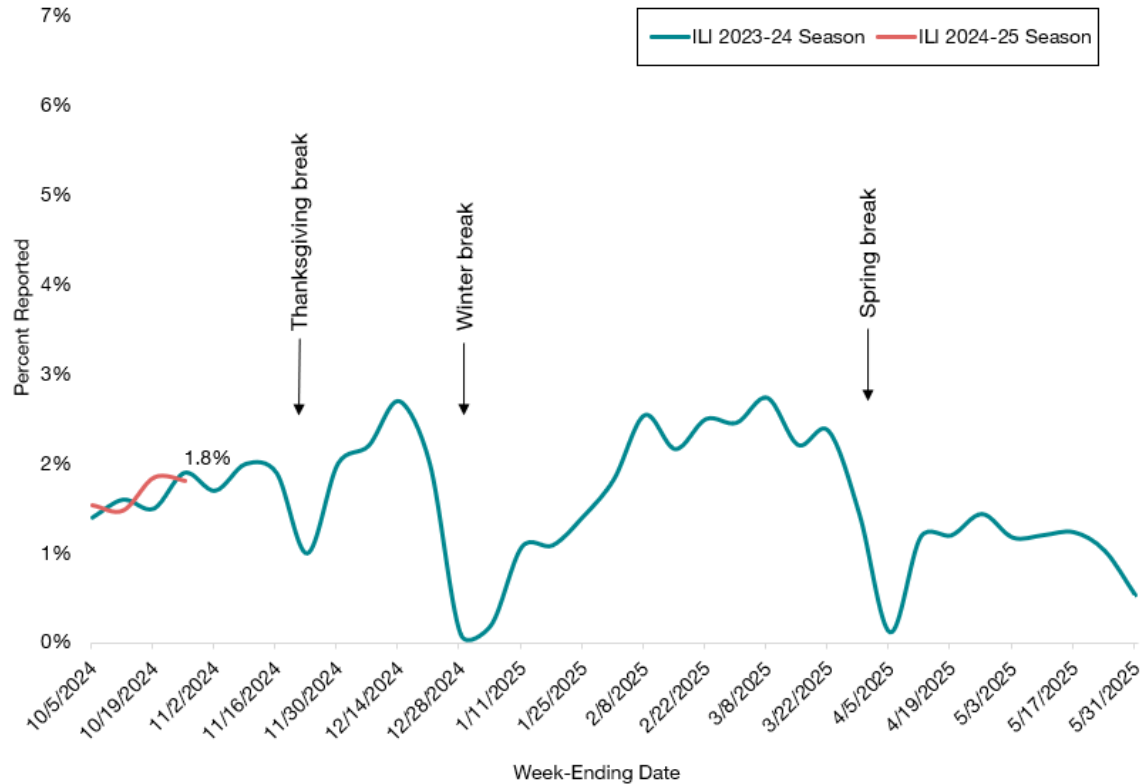
Table 2: Emergency Department and Urgent Care Visits with Influenza-like Illnesses – Last 4 Weeks

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%
43	10/26/2024	34	2244	1.5%

- During week 43, Ottawa County Emergency Department and Urgent Care visits with ILI reported increased to 1.5% from 1.1% the previous week.

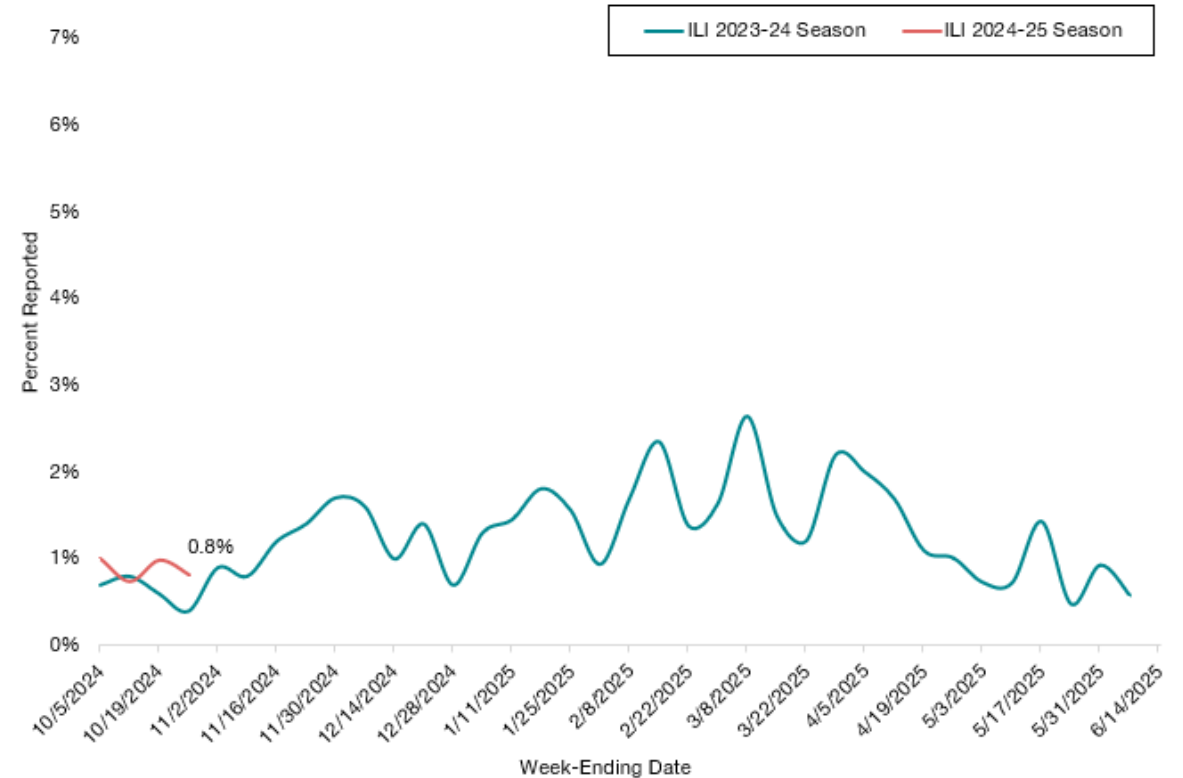
Influenza-Like Illness (ILI) Surveillance from Reporting Schools, Child Care, and Healthcare

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



- During week 43, the proportion of ILI reported in school/child care settings was 1.8%.
- The proportion of ILI reported in week 43 is similar to that reported at the same time last season (1.9%).

Figure 4: Percent Healthcare ILI Visits by Week



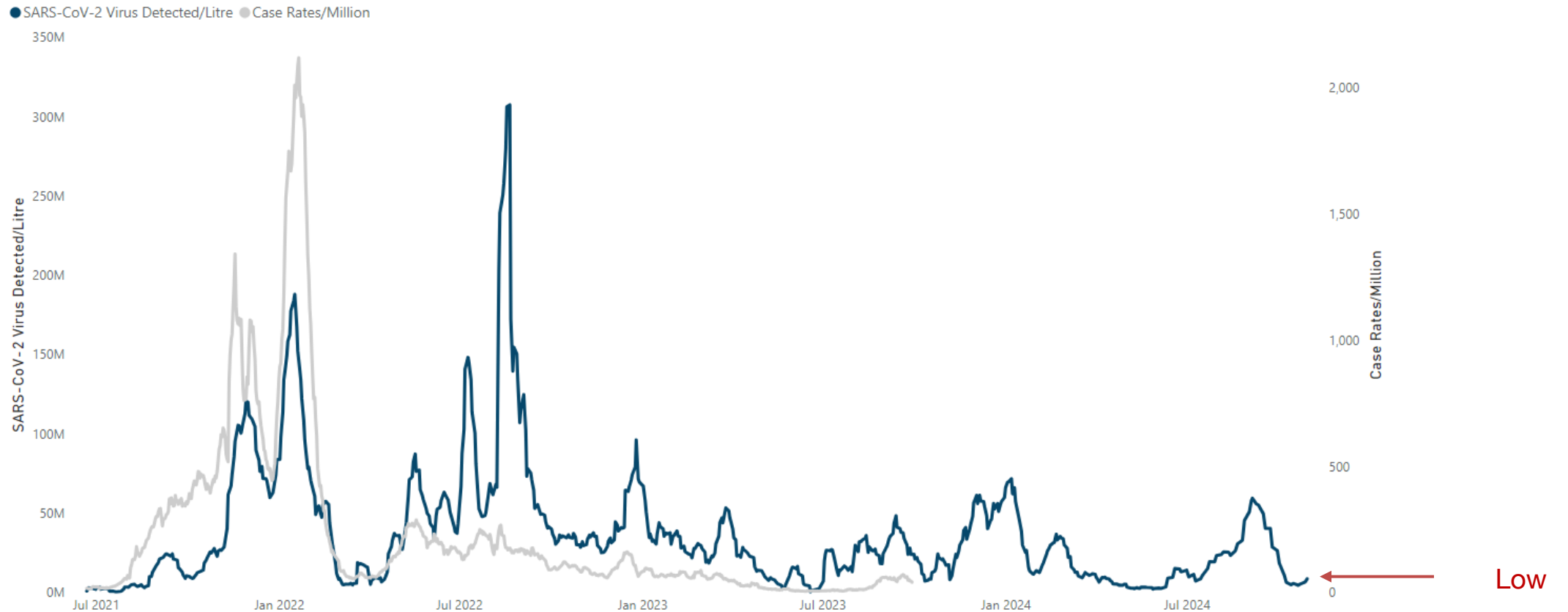
- Reported ILI in healthcare offices was 0.8% during week 43.
- There have been no reported influenza outbreaks in long-term care facilities (LTCFs) during the 2024-25 season in Ottawa County. No new LTCF influenza outbreaks were reported in week 43.

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.

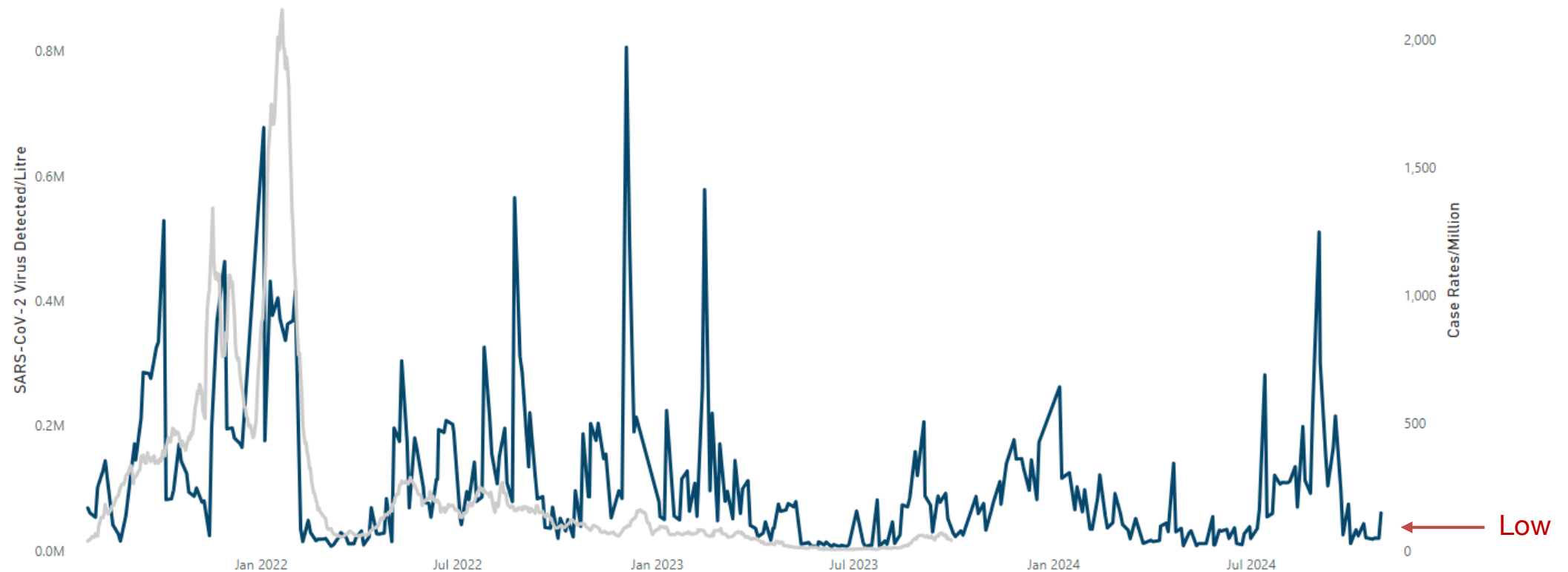
Source: Hope College Global Water Research Institute as part of the MDHHS SEWER-Network, Aaron Best, Ph.D. (best@hope.edu)

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.

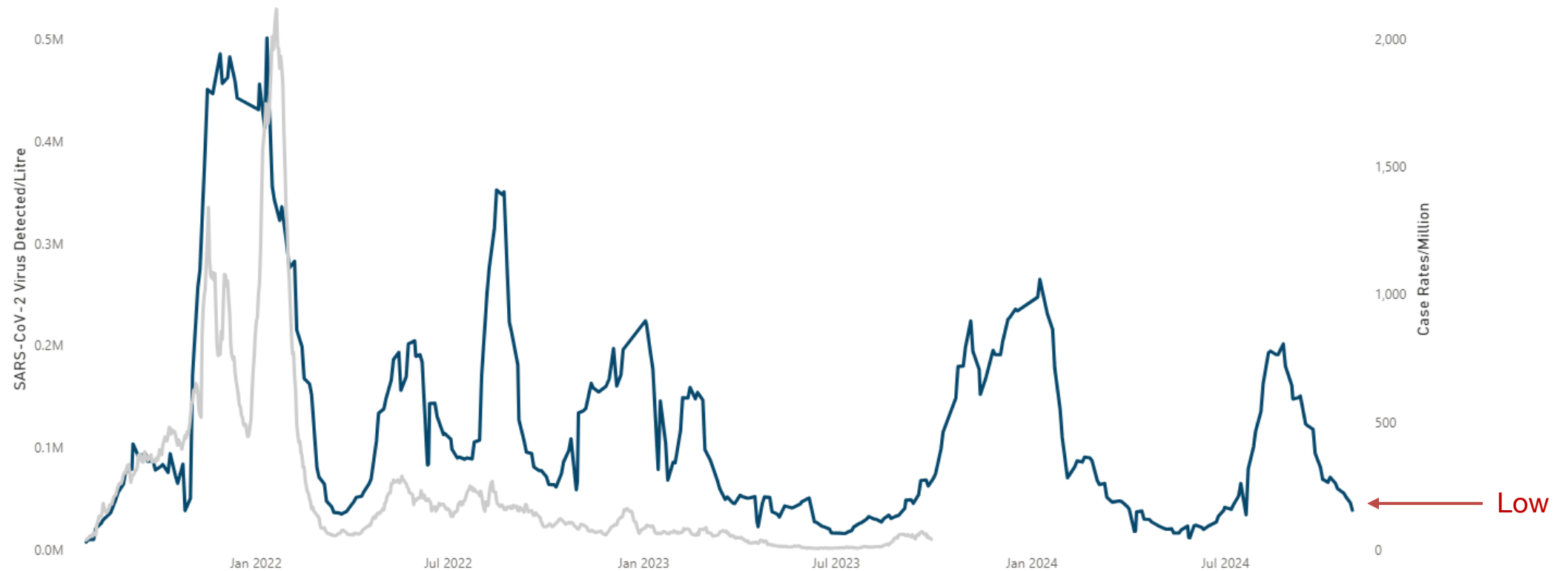
Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Ryan Otter, Ph.D. (otterr@gvsu.edu)

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



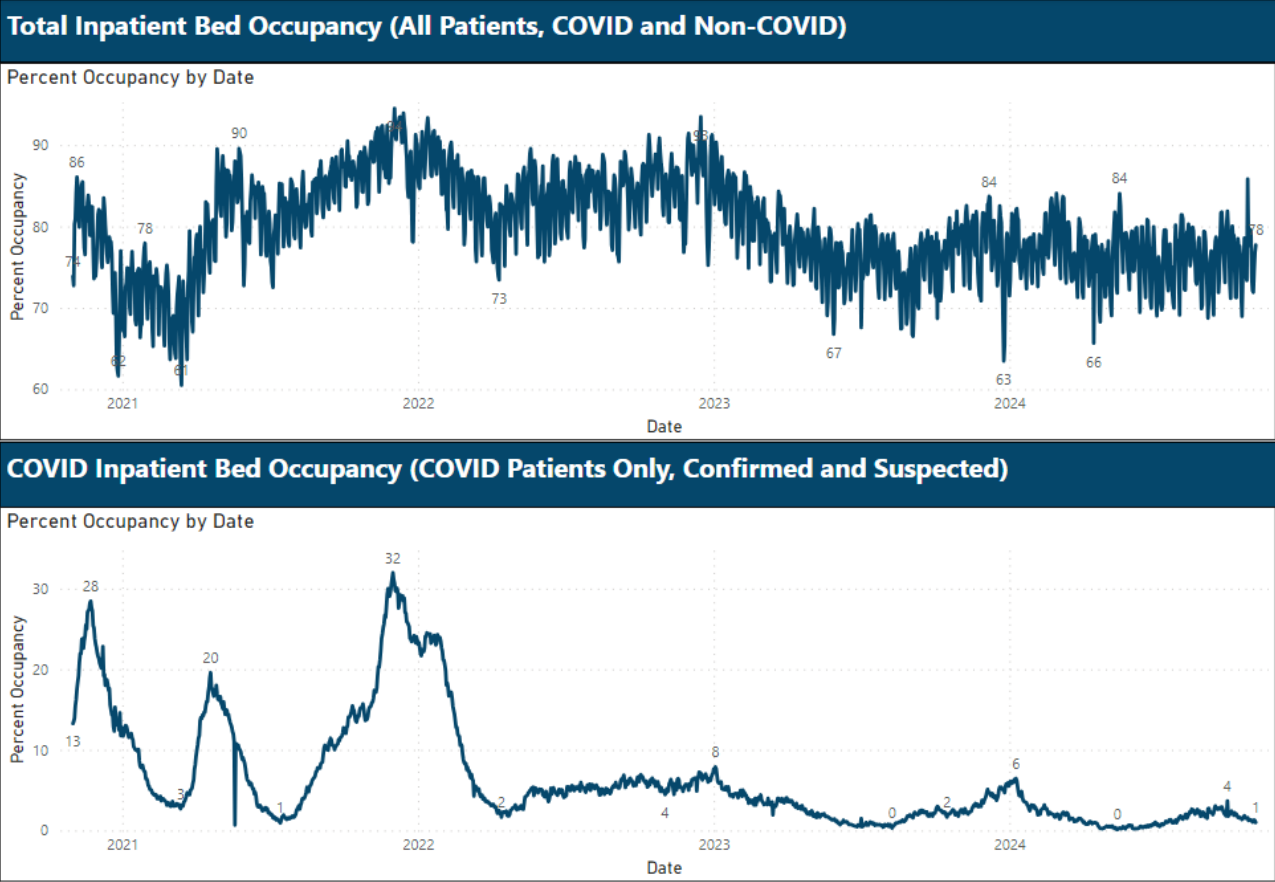
Data Interpretation: The **blue line** on the graph shows the 7-day average levels of SARS-CoV-2 virus (N2 markers) detected in wastewater sampled from the treatment plant in Grand Haven / Spring Lake. The **gray line** on the graph represents the 7-day average COVID-19 case rates/million for all of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

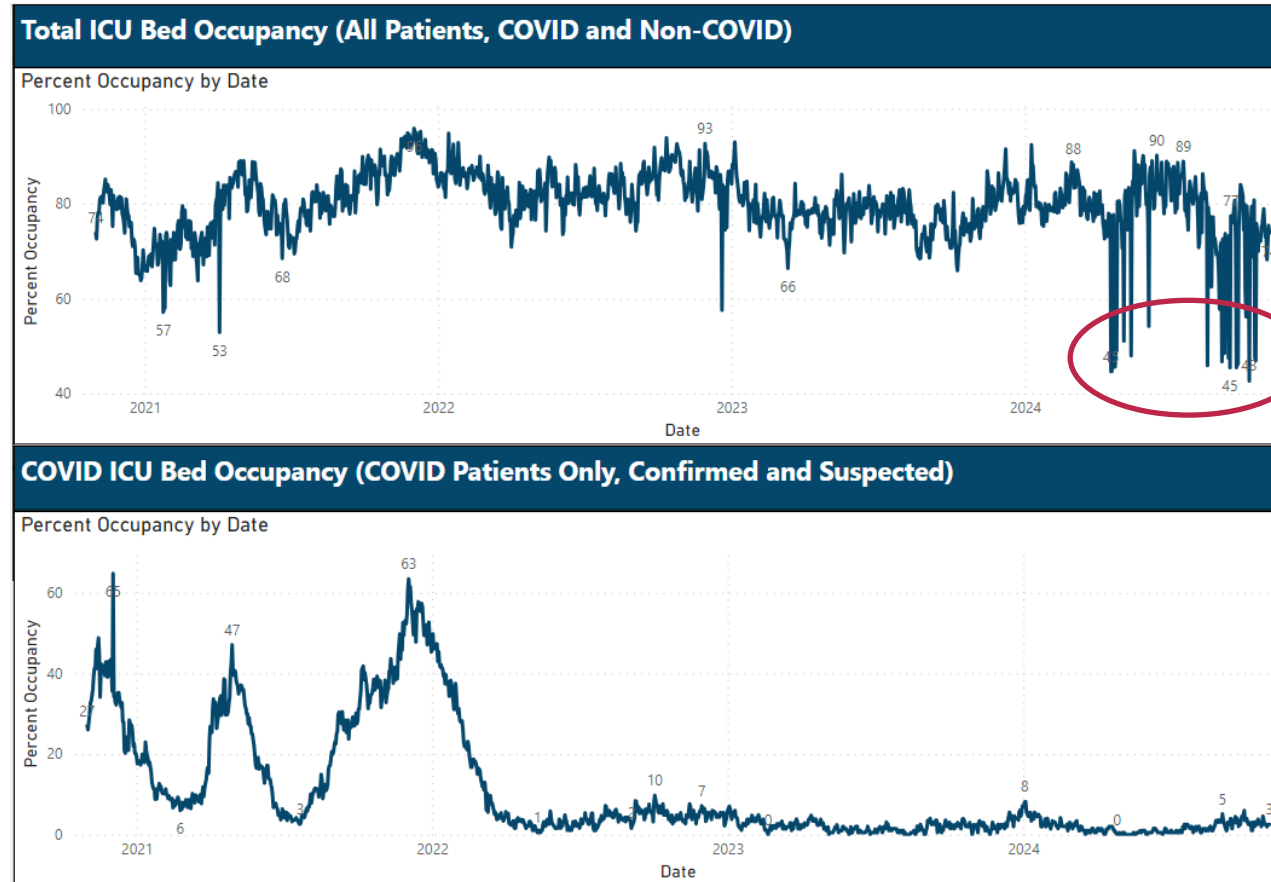
Additional Information: [Michigan COVID-19 Wastewater Surveillance Pilot Project \(arcgis.com\)](https://arcgis.com), [Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project \(SWEEP\) \(michigan.gov\)](https://michigan.gov)

Ottawa County Inpatient Bed Occupancy



- Total hospital bed occupancy is 78%.
- 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 74%.
- As of October 31, 2024, 3% of ICU beds were occupied by COVID-19 patients.

Respiratory Syncytial Virus (RSV) Surveillance

MMWR Week 43: October 20, 2024 – October 26, 2024

RSV Test Positivity in Ottawa County

Figure 6: RSV Test Positivity* by Week

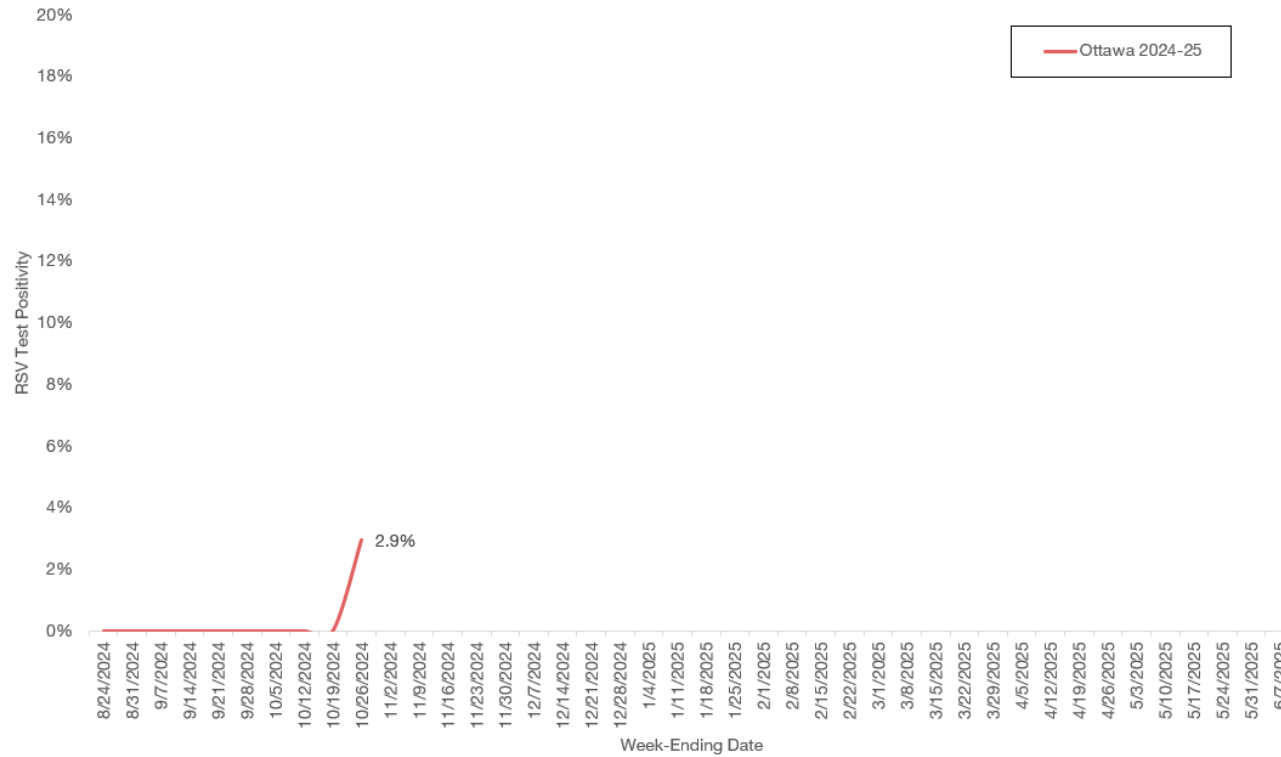


Table 5: RSV Positive Tests Reported – Last 8 Weeks

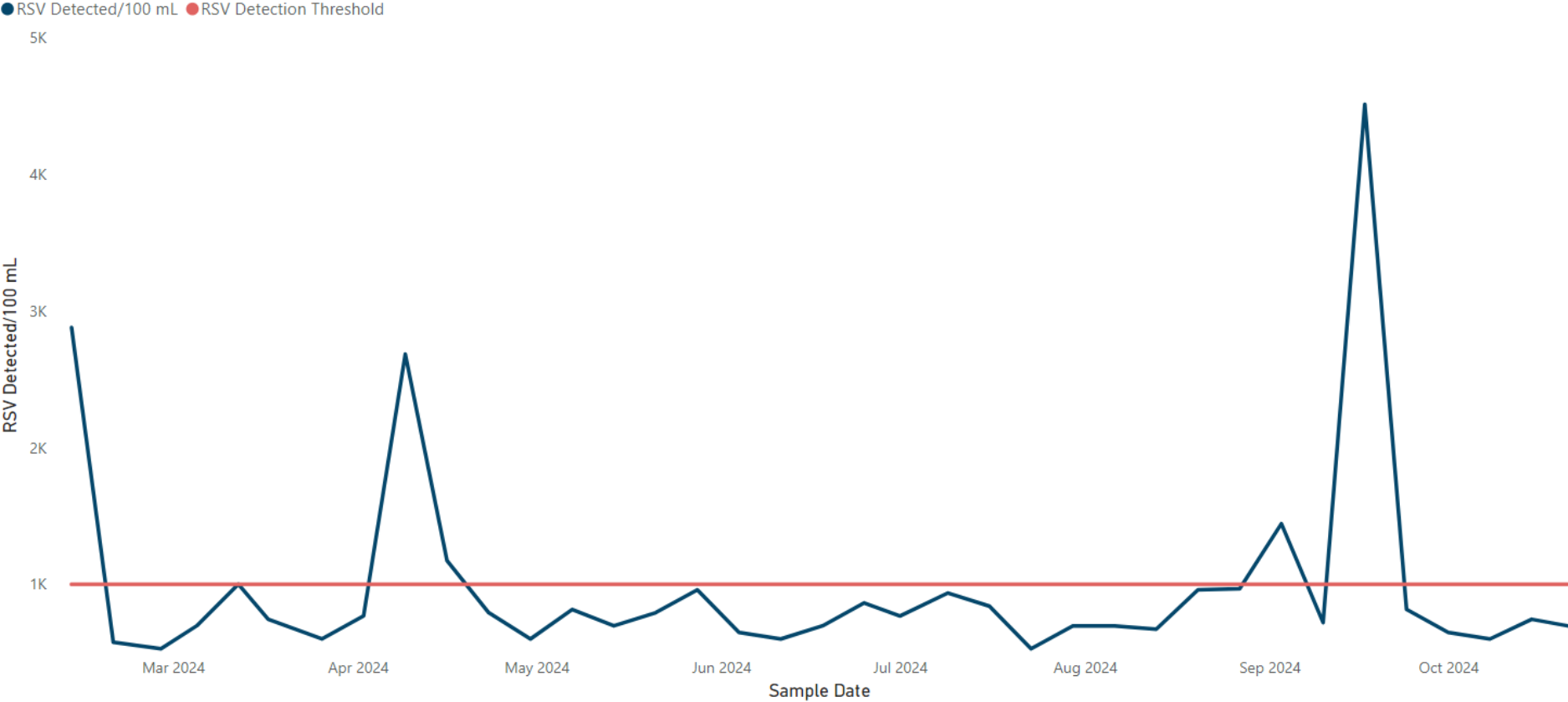
MMWR Week	Week-Ending Date	Total RSV	Total Tested	Positivity
36	9/7/2024	0	118	0.0%
37	9/14/2024	0	173	0.0%
38	9/21/2024	0	142	0.0%
39	9/28/2024	0	137	0.0%
40	10/5/2024	0	147	0.0%
41	10/12/2024	0	136	0.0%
42	10/19/2024	0	134	0.0%
43	10/26/2024	2	68	2.9%

*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 43, Ottawa County RSV positivity increased to 2.9% from 0.0% the previous week.

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.

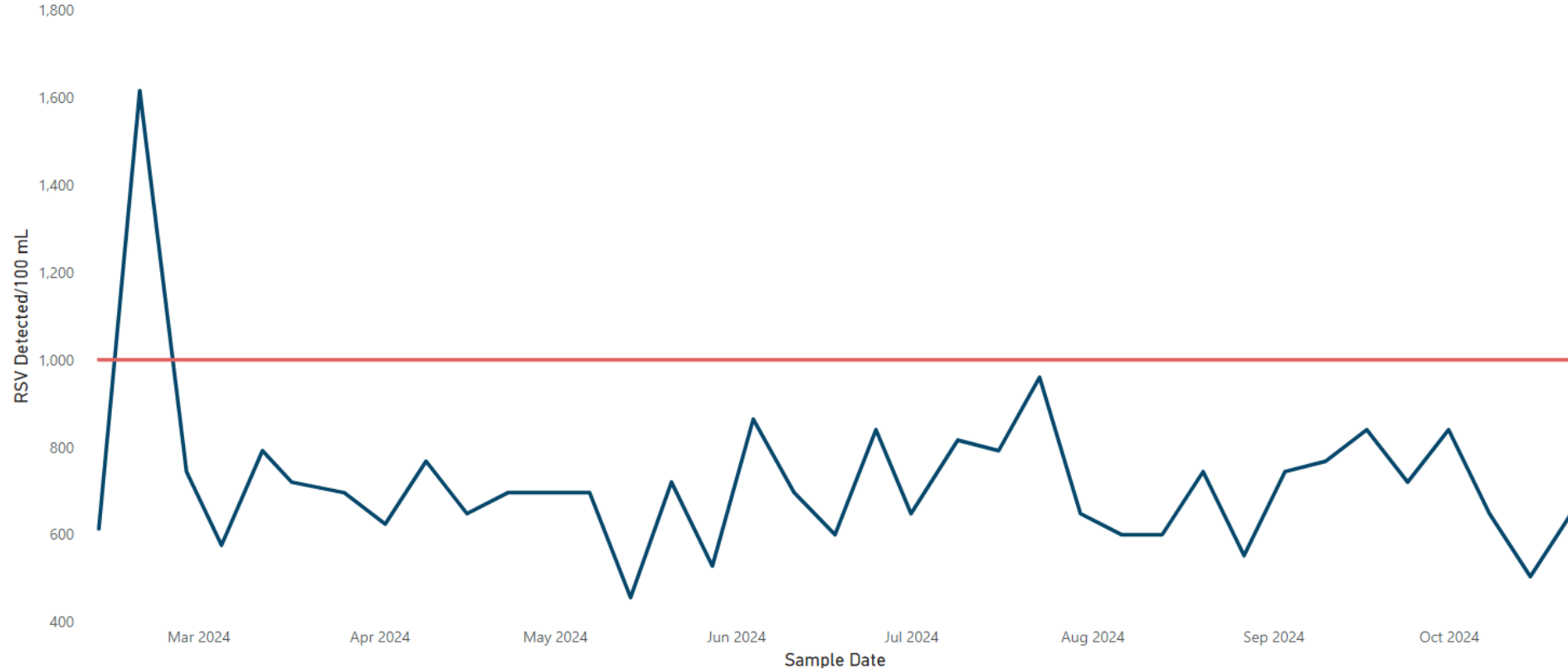
Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Ryan Otter, Ph.D. (otterr@gvsu.edu)

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

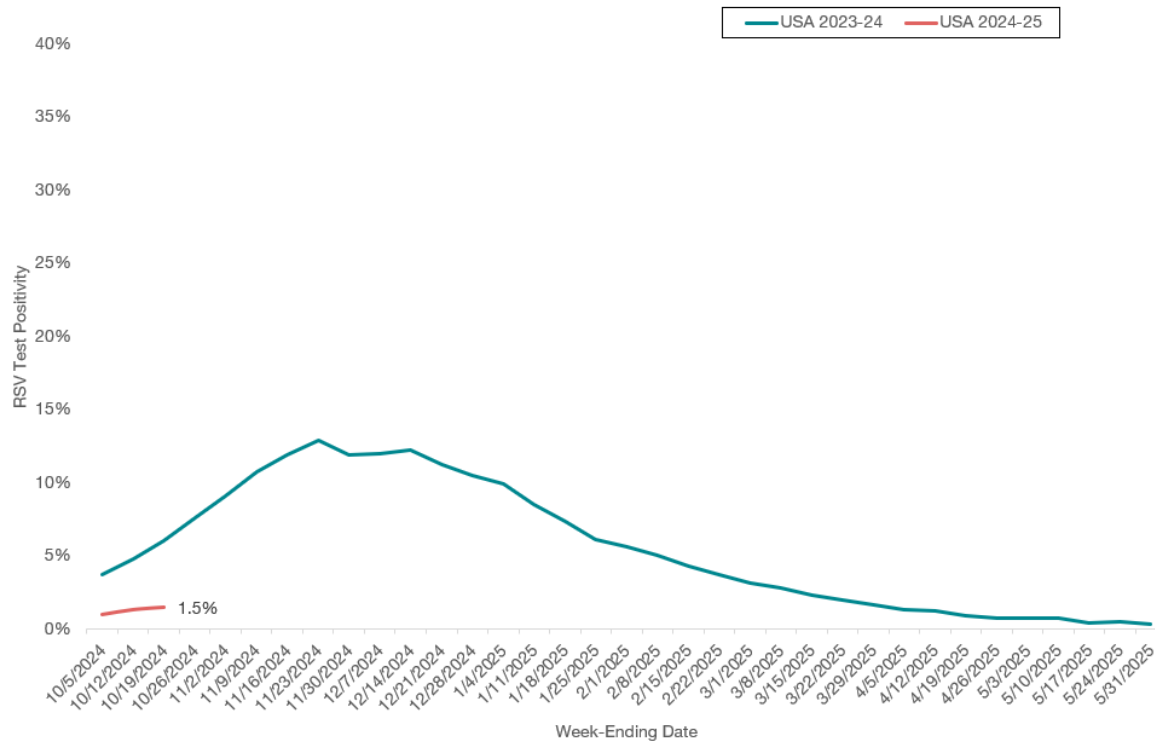
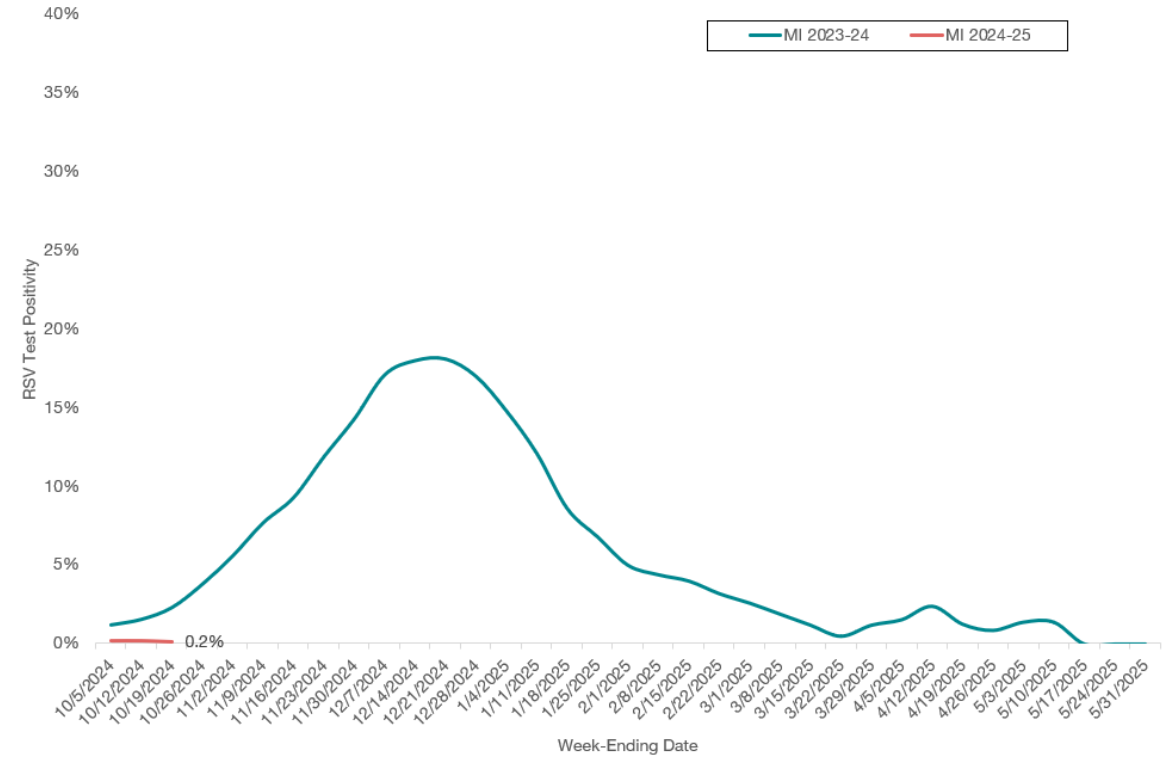


Figure 7: RSV Test Positivity* by Week, Michigan



*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.

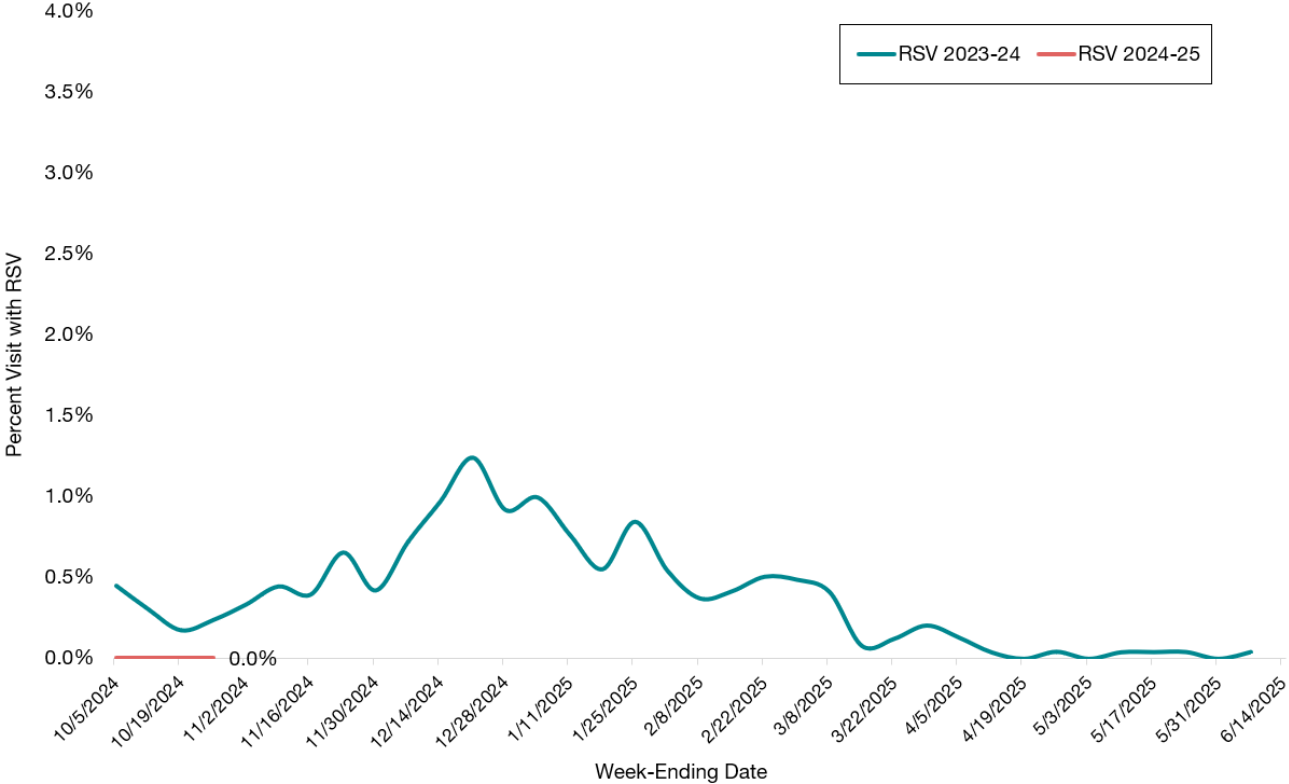
During week **42****, RSV positivity in the US was 1.5%, lower than the 2023-2024 season at the same time (6.0%).

During week **42****, RSV positivity in Michigan was 0.2%, lower than the 2023-2024 season at the same time (2.3%).

**Week 43 (week-ending October 26, 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%
43	10/26/2024	1	2244	0.0%

- During week 43, 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).