



Ottawa County Inﬂuenza Surveillance Report

MMWR* Week 44: October 27, 2019 - November 2, 2019

Summary:

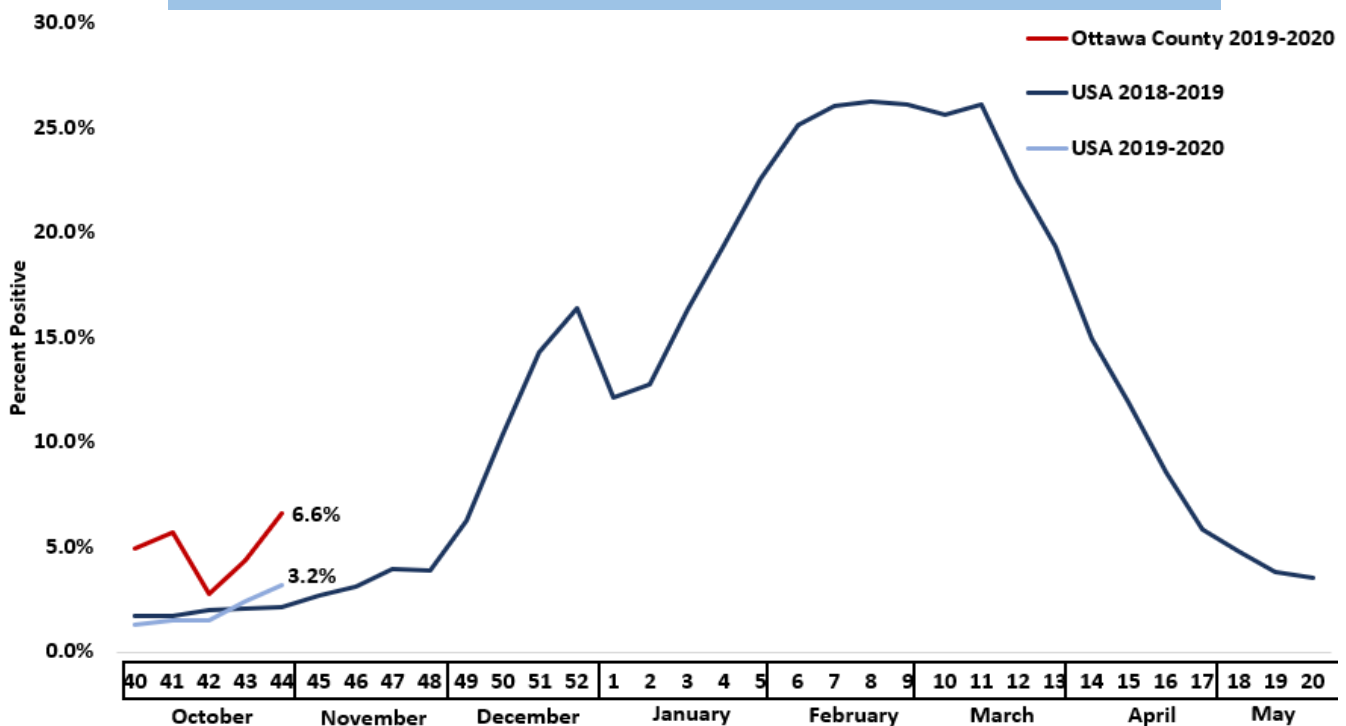
Inﬂuenza activity is low across Ottawa County. Inﬂuenza positivity on week 44 stood at 6.6% (from 4.4% last week). The number of inﬂuenza-like illnesses (ILI) reported in schools, licensed childcares, and healthcare facilities over the last 2 weeks are comparable to last year at this time. There were no reports of ILI in long-term care facilities (LTCFs). During week 44, Emergency Department (ED) visits with inﬂuenza syndrome declined to 2.1%, slightly higher than this same time last year, but well below last season’s peak.



Inﬂuenza Test Positivity

Inﬂuenza positivity is the percent of inﬂuenza tests conducted by reporting providers and laboratories that result positive. On week 44, reported positivity was 6.6%. Elevated inﬂuenza laboratory positivity is often an indication that inﬂuenza is circulating in the community^(1,2). Inﬂuenza positivity on week 44 was low.

Positivity Rate of Inﬂuenza Tests by Week, Ottawa County and United States



MMWR* Week	Week ending date	Type A	Type B	Unspecified	Total Inﬂuenza	Total Tested	Positivity
42	10/19/2019	2	1	3	6	109	5.5%
43	10/26/2019	5	1	N/A	6	135	4.4%
44	11/02/2019	6	N/A	N/A	6	91	6.6%

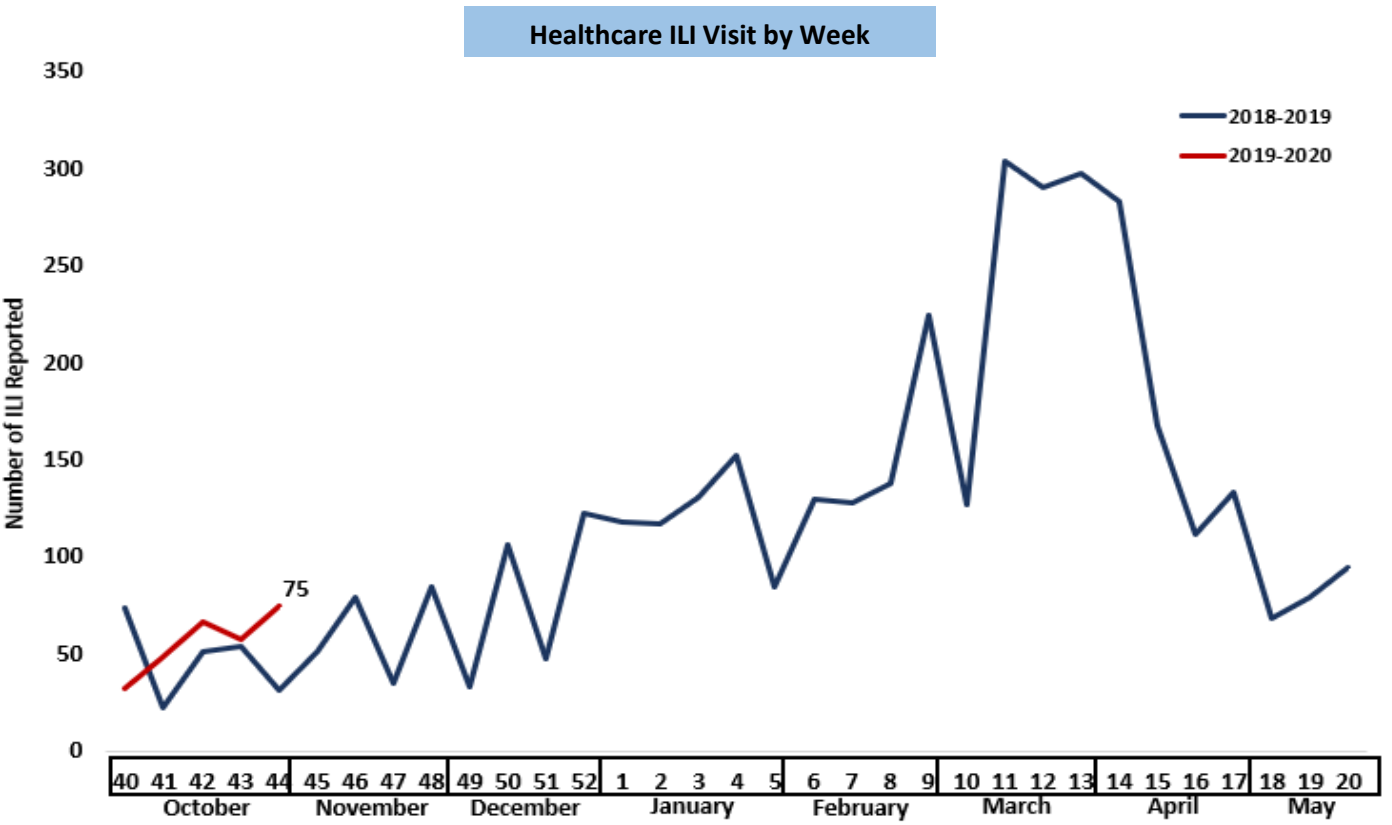
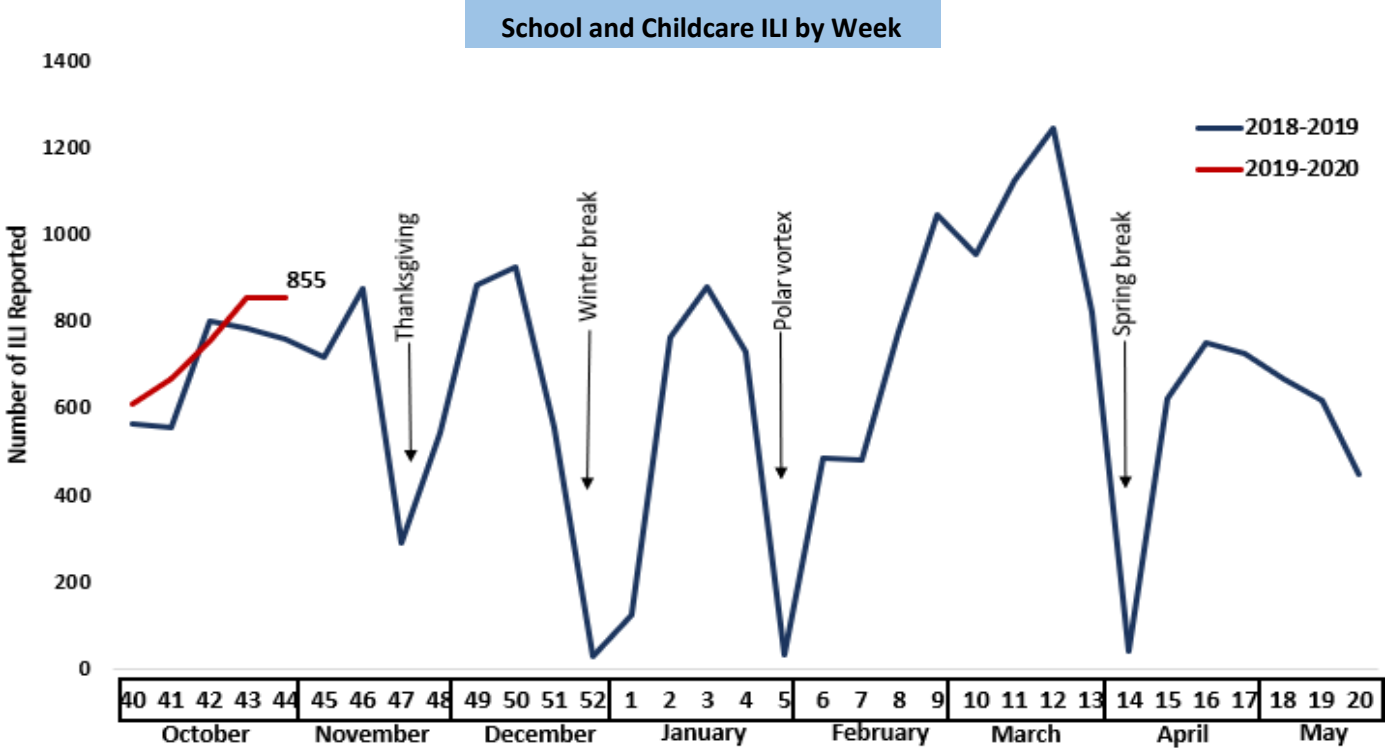
Inﬂuenza test data includes both PCR and rapid tests

* Morbidity and Mortality Weekly Report



Influenza-Like Illness (ILI) Surveillance from Reporting Schools, Childcare and Healthcare Settings

Ottawa County Department of Public Health (OCDPH) receives ILI reports from schools, licensed childcare, healthcare providers and LTCFs on a weekly basis. During week 44, there were 855 reports of ILI in school/childcare settings, and 75 reports in healthcare facilities. There were no reports of ILI in LTCFs. ILI reports in school/childcare and healthcare facilities during week 44 were relatively similar to the counts reported the same time last year, and well below last season's peak.

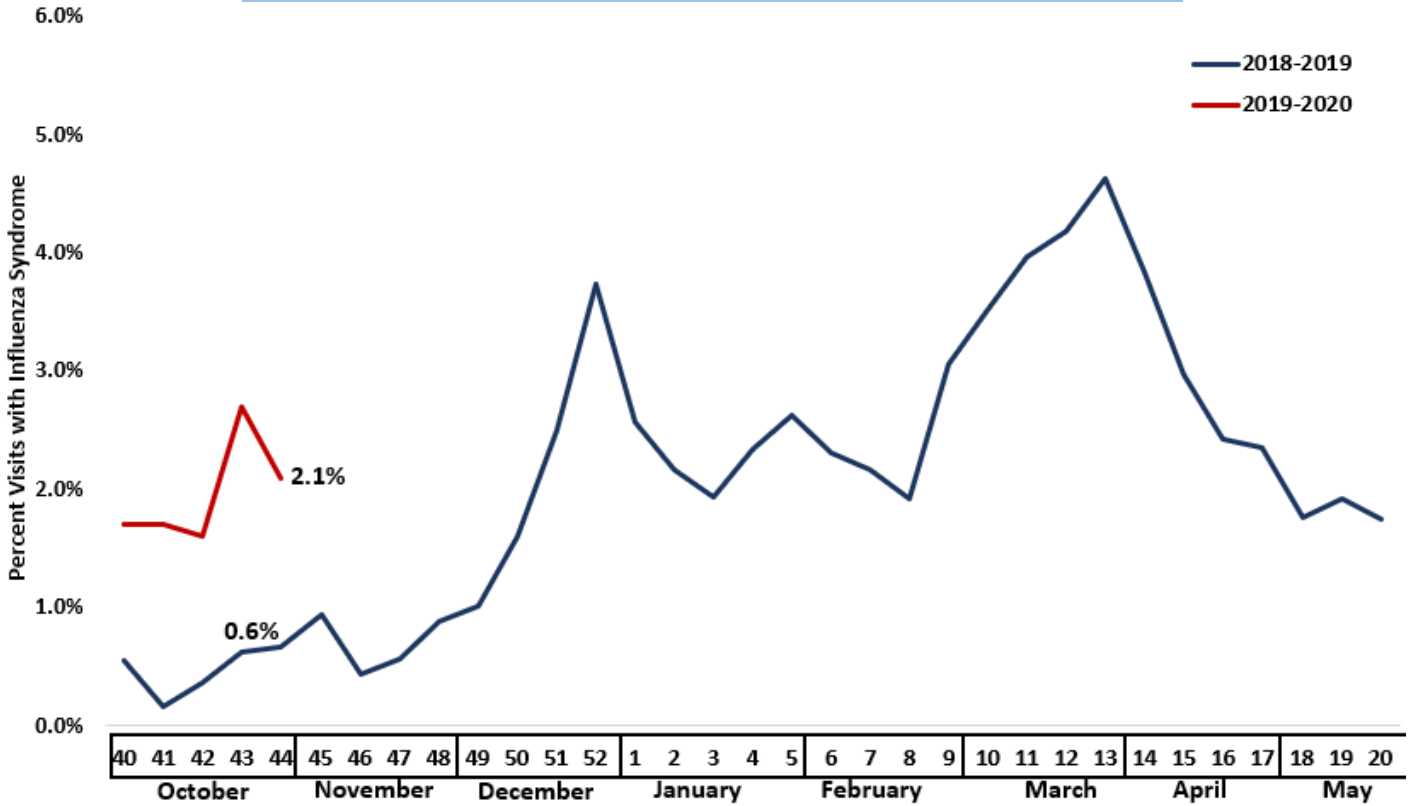




Syndromic Surveillance for ILI

This data reflects the proportion of patients seen in Ottawa County hospital EDs with an influenza symptom*. During week 44, Ottawa County ED visits with influenza symptoms declined to 2.1%.

Percentage of ED Visits in Ottawa County with Influenza Syndrome



MMWR Week	Week Ending Date	Total ED ILI	Total ED Visits	Percent ILI
42	10/19/2019	29	1766	1.6%
43	10/26/2019	49	1789	2.7%
44	11/02/2019	39	1855	2.1%

* Influenza symptoms include sudden onsets of fever, cough and/or sore throat.



Influenza Vaccine Coverage

The best way to prevent the influenza is by getting the influenza vaccine each year. Ottawa County has seen improvements in influenza (flu) vaccine coverage over the years. The table below reflects adult vaccination coverage in Ottawa County and the United States over the last 5 flu seasons.

	2014-15 Season	2015-16 Season	2016-17 Season	2017-18 Season	2018-19 Season
Ottawa County	28.8%	31.7%	32.4%	35.5%	39%
United States (average)	41.5%	41.5%	41.7%	41.7%	44.9%
Healthy People 2020 Target	70%	70%	70%	70%	70%

Source: Michigan's County Quarterly Immunization Report Card - Annual Q2 Reports.



Influenza Vaccine Effectiveness

The performance of influenza seasonal vaccines are monitored to improve their benefits. Vaccine effectiveness (VE) studies regularly assess and confirm the value of flu vaccination as a public health intervention³. The table below shows estimates of seasonal flu vaccine effectiveness from past seasons.

	2014-15 Season	2015-16 Season	2016-17 Season	2017-18 Season	2018-19 Season
Overall vaccine effectiveness	19%	48%	40%	38%	47%*

* Preliminary estimate

Source: CDC - Past seasons Vaccine Effectiveness Estimates⁴.

Severe Disease



So far this season, **2 influenza-associated pediatric deaths** have been reported to the Centers for Disease Control and Prevention (CDC). There have been no reports influenza-associated deaths in Ottawa County.

Resources

- ◆ Michigan Department of Health and Human Services - Influenza activity and Surveillance: https://www.michigan.gov/mdhhs/0,5885,7-339-71550_2955_22779_40563_48357-191722--,00.html
- ◆ Michigan's County Quarterly Immunization Report Card: https://www.michigan.gov/documents/mdch/Ottawa_447497_7.pdf and https://www.michigan.gov/documents/mdch/Report_Card_Defs_447511_7.pdf
- ◆ National influenza surveillance data are available at: <https://www.cdc.gov/flu/weekly/>
- ◆ Recommendations of the Advisory Committee on Immunization Practices, 2019–20 Influenza Season: https://www.cdc.gov/mmwr/volumes/68/rr/rr6803a1.htm?scid=rr6803a1e&delivery Name=USCDC_921-DM7382
- ◆ ¹Forecasting Peak Activity of Seasonal Influenza Using Only One Surveillance Indicator Colorado, 2013-2019 (CSTE Presentation): By Bernadette Albanese, MD, MPH, Tri-County Health Department
- ◆ ²Baumbach, J., Mueller, M., Smelser, C., Albanese, B., & Sewell, C. M. (2009). Enhancement of influenza surveillance with aggregate rapid influenza test results: New Mexico, 2003–2007. American journal of public health, 99 Suppl 2(Suppl 2), S372–S377. doi:10.2105/AJPH.2007.125450
- ◆ ³CDC. (2019). Seasonal Flu Vaccine Effectiveness Studies. Available at <https://www.cdc.gov/flu/vaccines-work/effectiveness-studies.htm>
- ◆ ⁴CDC. (2019). Past Seasons Vaccine Effectiveness Estimates. Available at <https://www.cdc.gov/flu/>

Note: This surveillance report is based on preliminary data. Charts and figures are subject to change as the data is updated.

Tell us what you think of this report

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