



Michigan Flu Focus

Weekly Influenza Surveillance Report



Editor: Sue Kim, MPH

Editor Email: KimS2@michigan.gov

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Week Ending July 6, 2019 | WEEK 27

Updates of Interest

The CDC have published an update to the MMWR report, *Influenza Activity in the United States During the 2018-19 Season and Composition of the 2019-20 Influenza Vaccine*. CDC officials call the U.S. 2018-2019 influenza season a “moderate severity season with two waves of influenza A activity of similar magnitude during the season.” Based on national data, the 2018-2019 influenza season lasted 21 weeks, making it the longest season in 10 years.

See the following link to the full MMWR Report:

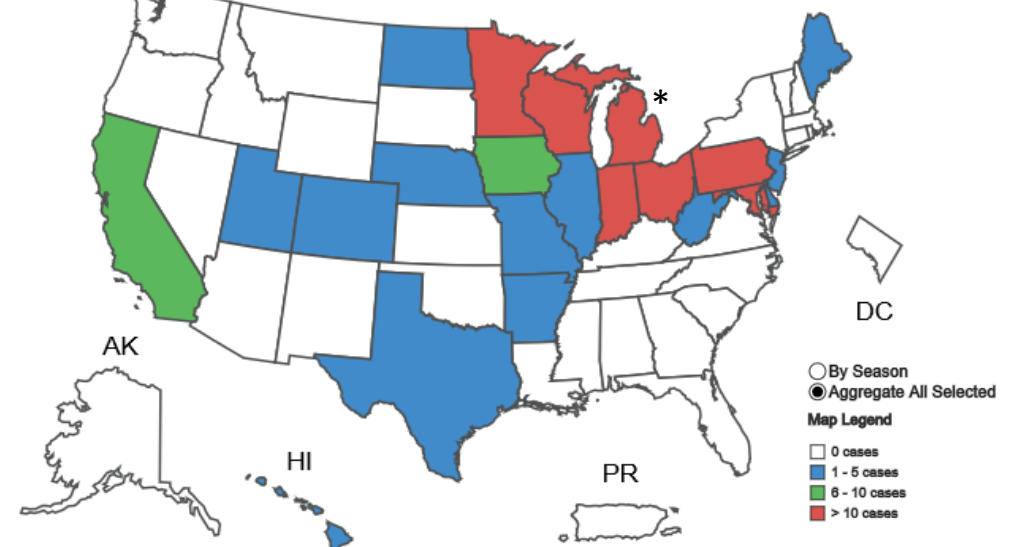
<https://www.cdc.gov/mmwr/volumes/68/wr/mm6824a3.htm>

The MDHHS Bureau of Laboratories (BOL) have published a recent edition of *LabLink* newsletter that includes a Michigan 2018-2019 influenza season summary.

See the following link to the full newsletter:

https://www.michigan.gov/documents/mdhhs/LabLink_Summer_2019_final_TM_July_659944_7.pdf

Novel Influenza Cases by State, 2010-2019



*One human infection with a variant influenza virus (A/H1N1v) has been reported in Michigan for the 2018-2019 season; this is the first influenza A H1N1v virus infection detected in the United States in 2019. Source: CDC FluView

FluBytes

- [Influenza Activity in the United States: 2018-19 Season](#)
- [Participate in the College and University Flu Challenge](#)
- [Study: Flu Antiviral fights all 4 flu virus types](#)
- [Increasing Influenza Vaccination in Health Care Workers](#)
- [Expired Inactivated Influenza Vaccine Administration and VAERS](#)
- [Two Distinct Waves Seen in the 2018-19 Flu Season](#)

Congregate Setting Respiratory Virus Outbreaks

There was 1 [C(0), N(0), SE(0), SW(1)] new respiratory virus outbreak reported to MDHHS during this time period. Respiratory outbreaks for the 2019 summer season are listed below.

Facility Type	C	N	SE	SW	Summer 2019 Total	2018-19 Flu Season Total
Schools: K-12 & College	0	0	0	0	0	9
Long-term Care / Assisted Living Facility	1	0	0	1	2	60
Healthcare Facility	0	0	0	0	0	1
Daycare	0	0	0	0	0	0
Homeless Shelter	0	0	0	0	0	1
Correctional Facility	0	0	0	0	0	8
Other	0	0	0	0	0	0
Total	1	0	0	1	2	
2018-19 Total	24	13	27	15		79

Did you know?

Congregate setting outbreaks of viral respiratory illnesses are required to be reported to your local health department. See:

- [Influenza Guidance for Healthcare Providers](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

Swine Variant Influenza Toolkit

The Swine Variant Influenza Toolkit will help local health departments in planning for and responding to suspected influenza outbreaks associated with swine at agricultural fairs and exhibits. See:

- [Swine Variant Influenza Toolkit](#)
- [Swine Variant Influenza Toolkit Templates Document](#)

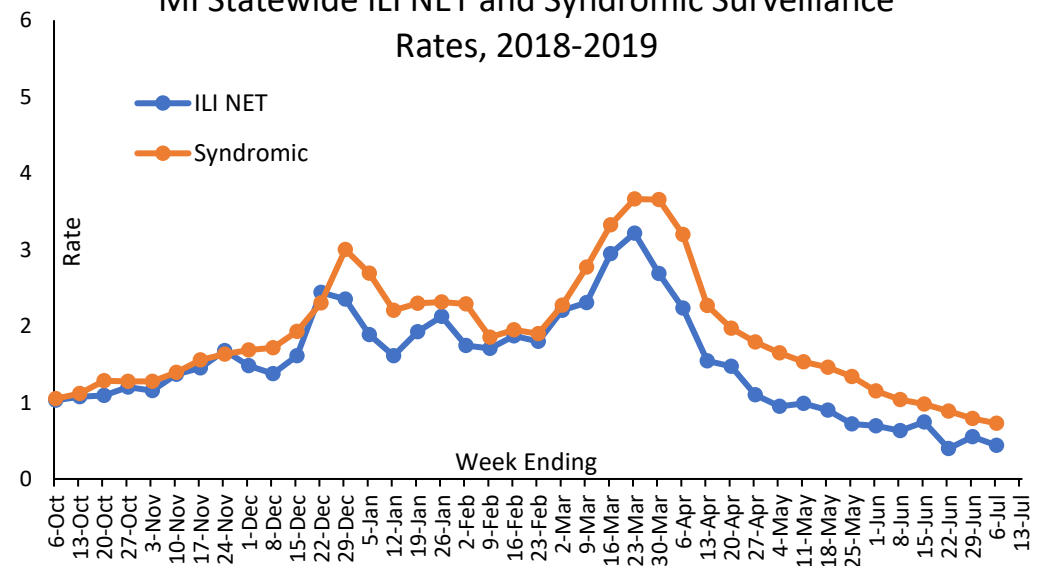
Influenza-like Illness (ILI) Activity

During the 2018-2019 influenza season, Michigan flu activity peaked week ending **March 23, 2019** (Week 12) at **3.2%** and reported above baseline of 1.8% for **12** weeks. National flu activity peaked week ending **February 16, 2019** (Week 7) at **5.1%**.

- Total number of reports by region: 19 [C(5), N(1), SE(11), SW(2)]
- Proportion of visits due to ILI: 0.4% (regional baseline*: 1.8%)
- 24 patient visits due to ILI were reported out of 5,485 office visits

*Regional baseline is developed by calculating the mean percentage of patient visits for ILI during non-influenza weeks for the previous three seasons and adding two standard deviations.

MI Statewide ILI NET and Syndromic Surveillance Rates, 2018-2019



Become an ILINET provider!

Contact Shelly Doeblor at DoeblerM@michigan.gov

MDHHS Bureau of Laboratories (BOL)

There were 2 [C(2), N(0), SE(0), SW(0)] new respiratory virus results reported to MDHHS during this time period. Positive results for the 2019 summer season are listed below.

Respiratory Virus	# Positive Respiratory Virus Results by Region				Summer 2019 Total	2018-19 Flu Season Total
	C	N	SE	SW		
2009 A/H1N1pdm	3	0	3	3	9	442
Influenza A/H3	5	2	1	3	11	319
Influenza B	6	0	3	0	9	44
Total	14	2	7	6	29	
2018-2019 Total	376	47	95	287		805

Note: 1 specimen tested positive for A H3 and B; 2 specimens tested positive for A H1N1 and A H3

Michigan Sentinel Clinical Lab Respiratory Virus Data

Eight (8) sentinel clinical labs (2SE, 2SW, 4C, ON) reported during Weeks 26 and 27

SE Region

- Influenza A: sporadic
- Influenza B: sporadic
- Parainfluenza: no data available
- RSV: sporadic
- Adenovirus: no data available
- hMPV: no data available

Central Region

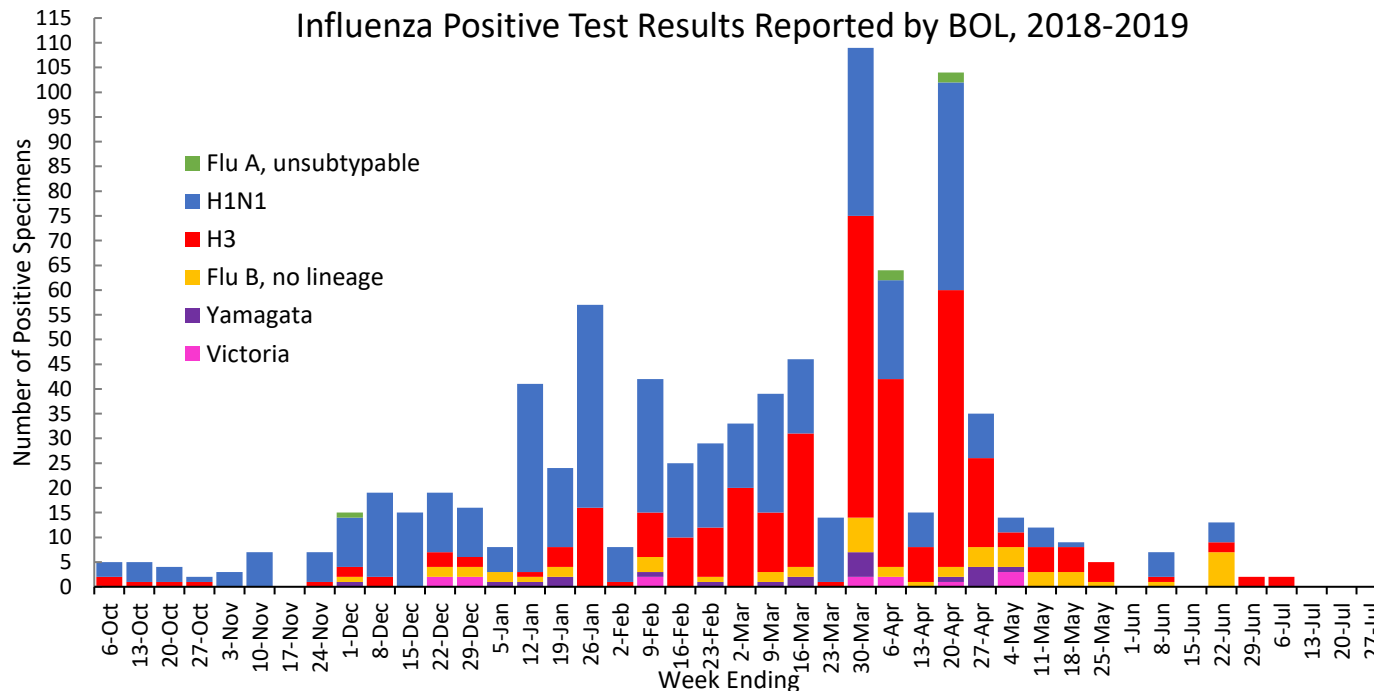
- Influenza A: sporadic
- Influenza B: sporadic
- Parainfluenza: low
- RSV: sporadic
- Adenovirus: low
- hMPV: very low

SW Region

- Influenza A: sporadic
- Influenza B: no activity
- Parainfluenza: low
- RSV: sporadic
- Adenovirus: low
- hMPV: low

North Region

- Influenza A: no data available
- Influenza B: no data available
- Parainfluenza: no data available
- RSV: no data available
- Adenovirus: no data available
- hMPV: no data available



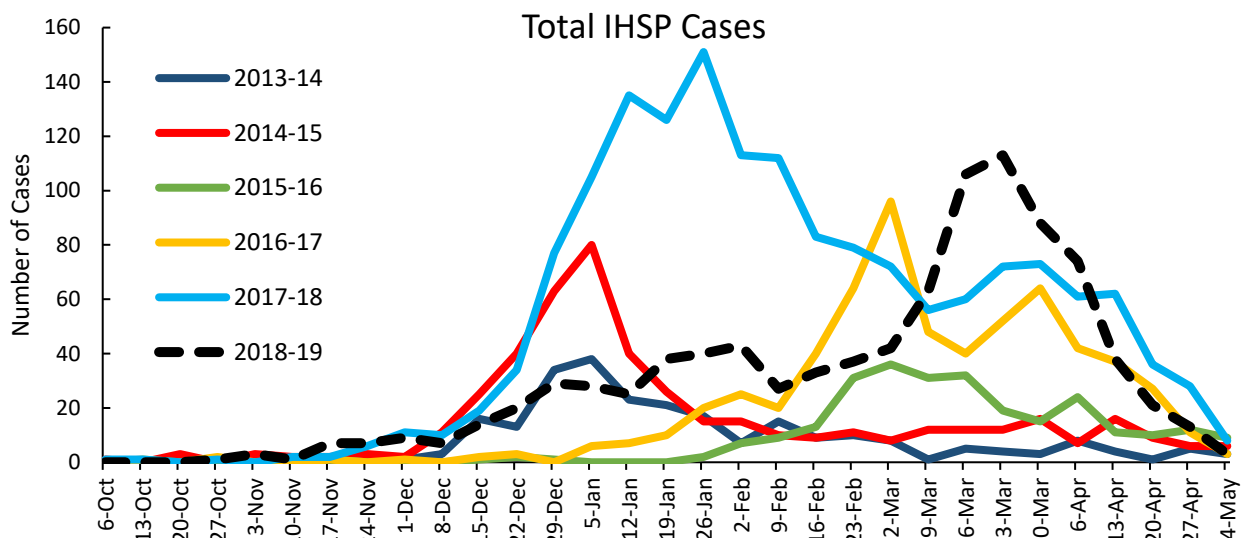
Note: Flu B subtyping will be reported based on MDHHS BOL testing runs (roughly each month) and will be backtracked into this graph
 Latest MDHHS BOL Flu B subtyping run: **May 2, 2019**

Influenza-related Hospitalization Surveillance

Week Ending July 6

The CDC Influenza Hospitalization Surveillance Project (IHSP) provides population-based rates of hospitalization due to severe influenza-related illness through active surveillance and chart review of lab-confirmed cases from Oct. 1, 2018 until Apr. 30, 2019, for Clinton, Eaton, Ingham, Genesee, and Washtenaw counties. For the 2018-2019 influenza season, there have been a total of 930* (118 pediatric, 812 adult) influenza-related hospitalizations reported in the catchment area.

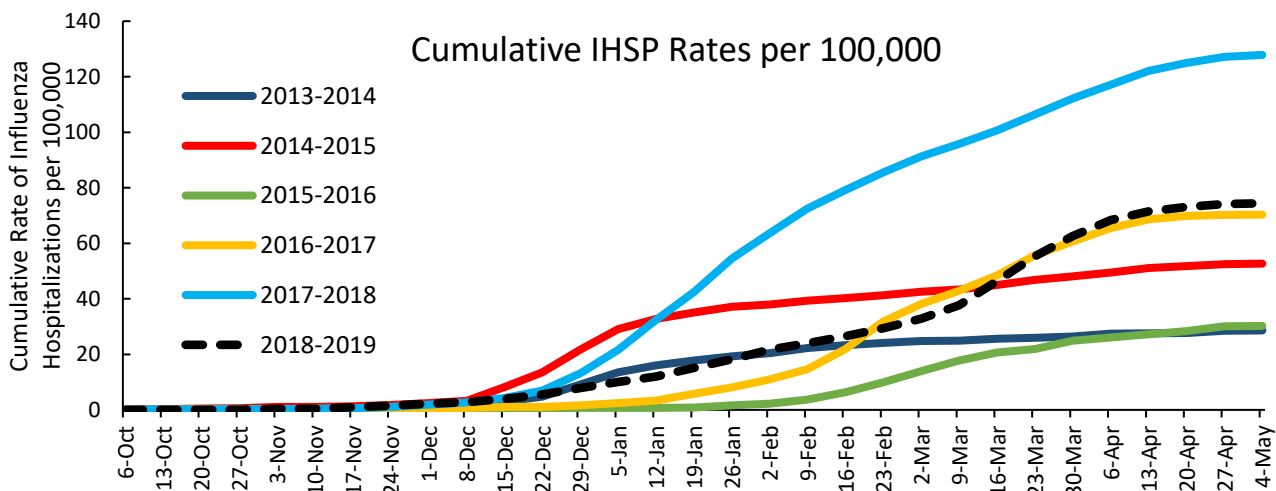
*Data is preliminary and may change as chart reviews are completed



Influenza-associated Pediatric Mortality

Three (3) pediatric influenza (A/H1N1-09, A/H3N2, A/B undistinguished) deaths have been confirmed by MDHHS for the 2018-2019 flu season.

Nationally, 122 influenza-associated pediatric deaths have been reported for the 2018-2019 flu season.



Washtenaw County was added in 2017-2018

Note: IHSP surveillance period has ended as of April 30, 2019 and will resume October 1, 2019

MDHHS Contributors

- Bureau of Epidemiology & Population Health** – S. Bidol, MPH, S. Kim, MPH
- Bureau of Family Health Services** – M. Doebler, MPH
- Bureau of Labs** – B. Robeson, MT, V. Vavricka, MS

For questions or to be added to the distribution list, please contact Sue Kim at KimS2@michigan.gov