



Michigan Flu Focus

Weekly Influenza Surveillance Report



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Updates of Interest

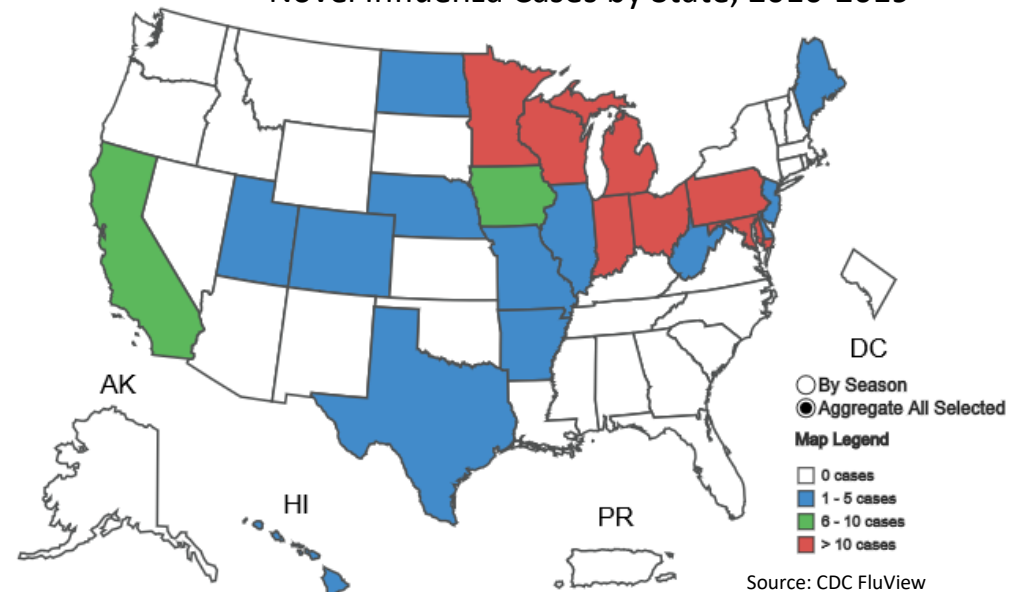
A human infection with a variant influenza virus (A/H1N1v) has been confirmed in a resident of Michigan. This is the first influenza A H1N1v infection detected in the United States in 2019.

Influenza A viruses that normally circulate in swine are called variant influenza viruses when isolated from humans. Early identification and investigation of human infections with novel influenza A viruses are critical so that the risk of infection can be more fully understood and appropriate public health measures can be taken.

Additional information on influenza in swine, variant influenza infection in humans, and strategies to interact safely with swine can be found at <http://www.cdc.gov/flu/swineflu/index.htm>. Additional information can also be found in the [MDHHS Swine Variant Influenza Tool Kit](#).

Note: the Michigan Flu Focus report will now be distributed for the first MMWR Week of each month of June – September, unless summer activity warrants more frequent communication. Weekly reports of MIFF will resume for MMWR Week 40 (Week Ending October 5, 2019) for the 2019-2020 influenza season.

Novel Influenza Cases by State, 2010-2019



FluBytes

- [National Influenza Surveillance Updates](#)
- [US Scientists Have Developed and Validated a Clinical Decision Guideline \(CDG\) for Flu Testing in Emergency Departments](#)
- [Increasing Influenza Vaccination in Health Care Workers](#)
- [Flu Vaccine Tied to Lower Mortality in Heart Failure Patients](#)
- [WHO Influenza Surveillance Updates – May 27, 2019](#)

Congregate Setting Respiratory Virus Outbreaks

There was 1 [C(1), N(0), SE(0), SW(0)] 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	0	1	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	0	1	
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](#)

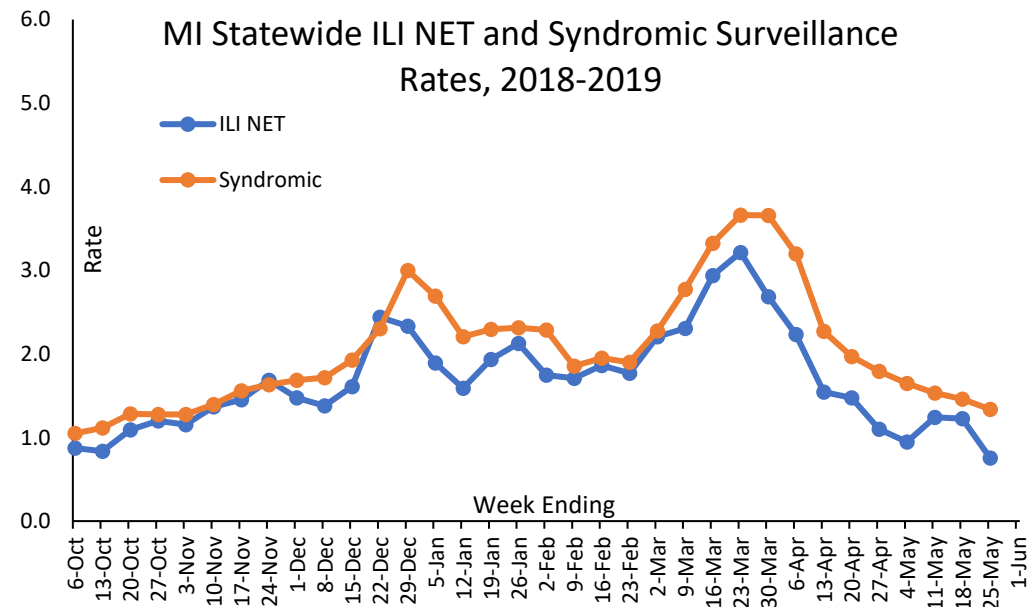
Influenza-like Illness (ILI) Activity

During the 2018-2019 influenza season, national activity peaked week ending **February 16, 2019** (Week 7) at **5.1%**.

Michigan activity peaked week ending **March 23, 2019** (Week 12) at **3.2%** and reported above baseline of 1.8% for **12 weeks**.

- Total number of reports by region: 26 [C(6), N(3), SE(12), SW(5)]
- Proportion of visits due to ILI: ↓ 0.8% (regional baseline*: 1.8%)
- 77 patient visits due to ILI were reported out of 10,186 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.



Become an ILINET provider!

Contact Shelly Doeblner at DoeblerM@michigan.gov

MDHHS Bureau of Laboratories (BOL)

There were 5 [C(1), N(2), SE(0), SW(2)] 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	0	0	0	0	0	442
Influenza A/H3	0	2	0	2	4	319
Influenza B	1	0	0	0	1	44
Total	1	2	0	2	5	
2018-2019 Total	376	47	95	287		805

Michigan Sentinel Clinical Lab Respiratory Virus Data

Eight (8) sentinel clinical labs (1SE, 1SW, 6C, 0N) reported during this week

SE Region

- Influenza A: sporadic- low
- Influenza B: slightly elevated; decreasing
- Parainfluenza: no data available
- RSV: low
- Adenovirus: no data available
- hMPV: no data available

Central Region

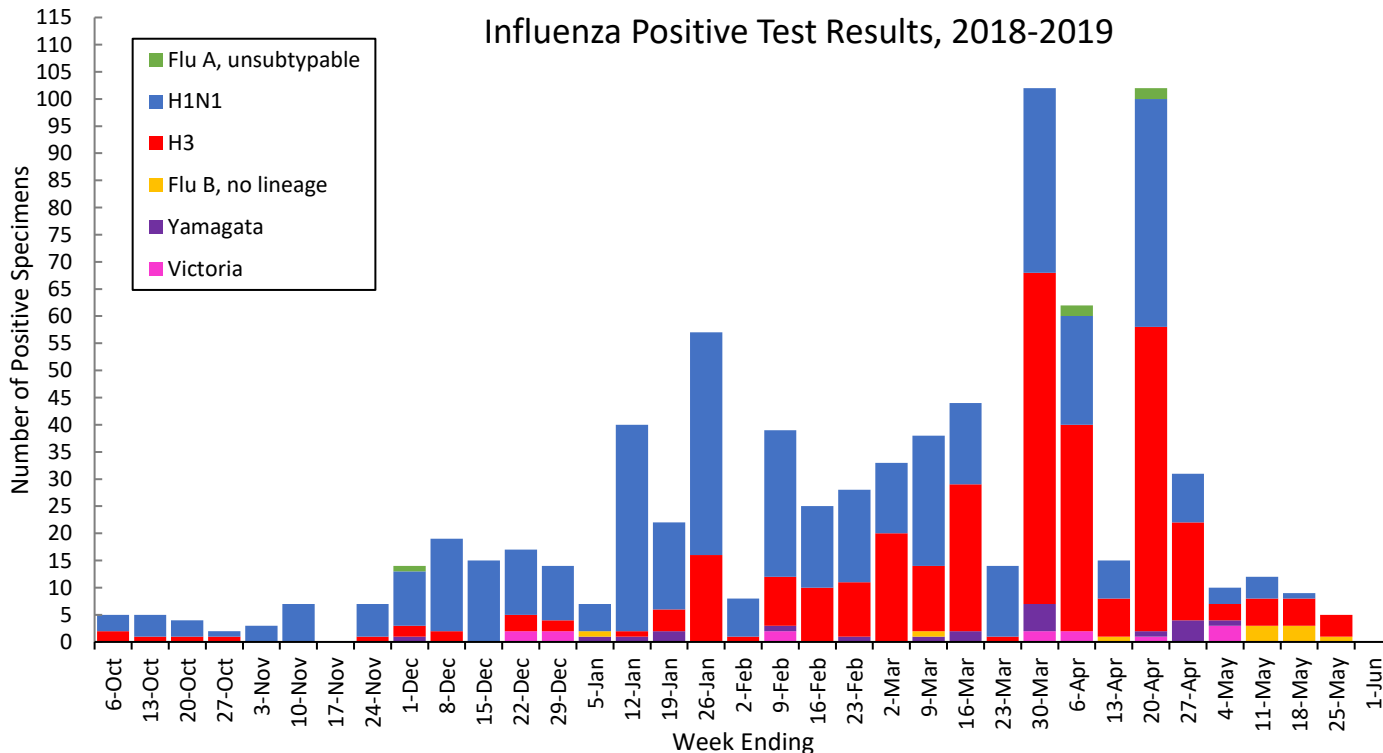
- Influenza A: low; decreasing
- Influenza B: low-slightly elevated; decreasing
- Parainfluenza: low-slightly elevated
- RSV: sporadic-low
- Adenovirus: sporadic-low
- hMPV: low-slightly elevated

SW Region

- Influenza A: low
- Influenza B: very low
- Parainfluenza: slightly elevated
- RSV: low
- 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

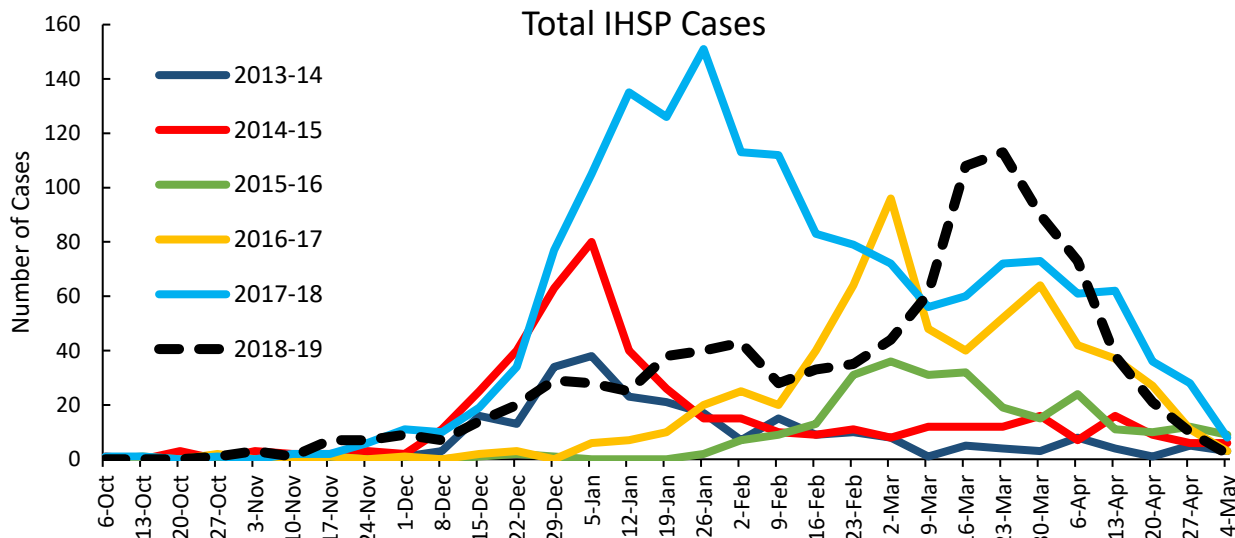


Note: Flu B subtyping will be reported based on MDHHS BOL testing runs (roughly each month) and will be backtracked into this graph
 Most recent MDHHS BOL Flu B subtyping run: **May 2, 2019**

Influenza-related Hospitalization Surveillance

Week Ending May 25

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 932* (120 pediatric, 812 adult) influenza-related hospitalizations reported in the catchment area.

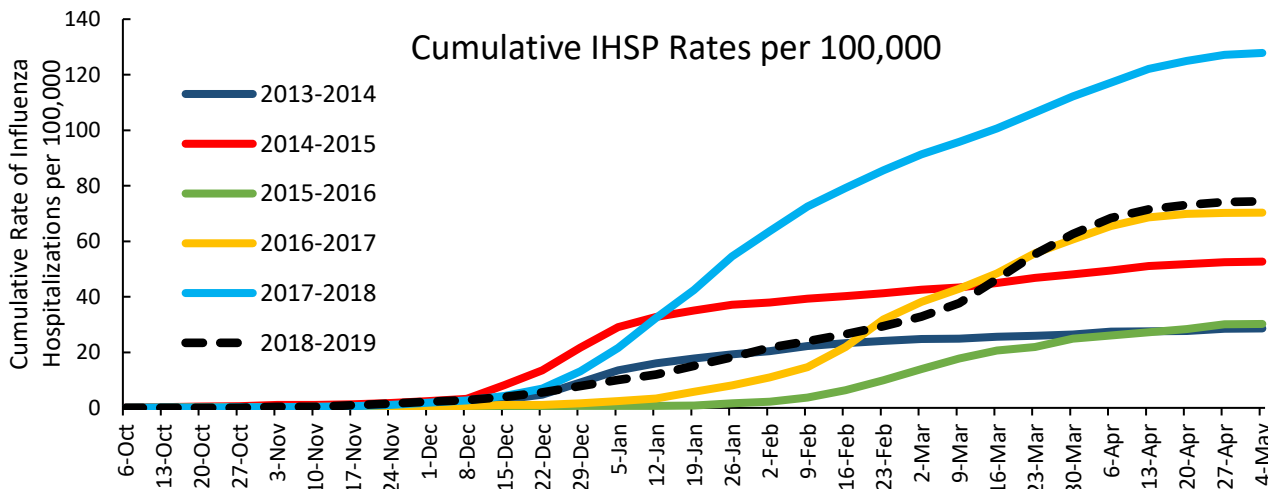


*Data is preliminary and may change as chart reviews are completed

Influenza-associated Pediatric Mortality

One (1) pediatric influenza (A/H1N1-09) death has been confirmed by MDHHS for the 2018-2019 flu season.

Nationally, 113 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, 2018 and will resume October 1, 2019

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