

# Michigan Flu Focus

**Weekly Influenza Surveillance Report** 



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**April 13, 2018** 

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Week Ending April 7, 2018 | WEEK 14

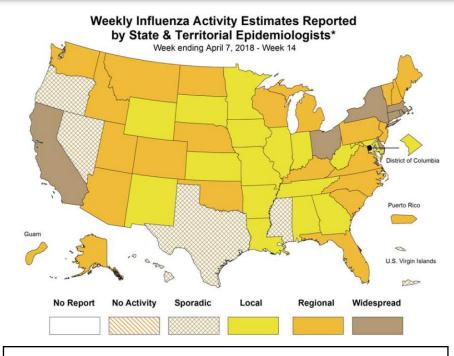
Michigan Influenza Activity
No Activity
Sporadic
Local
<u>Regional</u>
Widespread

<sup>\*</sup>Clicking on the current activity level will direct you to the CDC webpage defining each activity level for the geographic spread of influenza

### **Updates of Interest**

Research offers clues for improved influenza vaccine design. Findings suggest that influenza vaccines should be optimized to better target neuraminidase (NA) for broad protection against diverse influenza strains.

Click <u>here</u> for more details from the NIH.

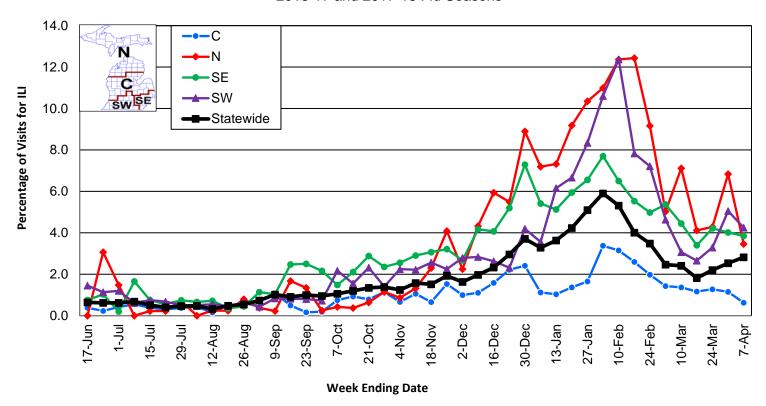


### **Influenza-associated Pediatric Mortality**

To date, two (2) pediatric influenza deaths (A/H3) have been confirmed by MDHHS for the 2017-2018 flu season. Nationally, one hundred fifty-one (151) influenza-associated pediatric deaths have been reported thus far for the 2017-2018 flu season.

- Number of reports by region: 35 total [C(9), N(4), SE(17), SW(5)]
- Proportion of visits due to ILI: ↓ 2.8 % (regional baseline\*: 1.8%)
- A total of 233 patient visits due to ILI were reported out of 8,272 office visits

Percentage of Visits for Influenza-like Illness (ILI)
Reported by Sentinel Providers, Statewide and Regions
2016-17 and 2017-18 Flu Seasons



Become a Sentinel
Provider! Contact:
EckelS1@michigan.gov

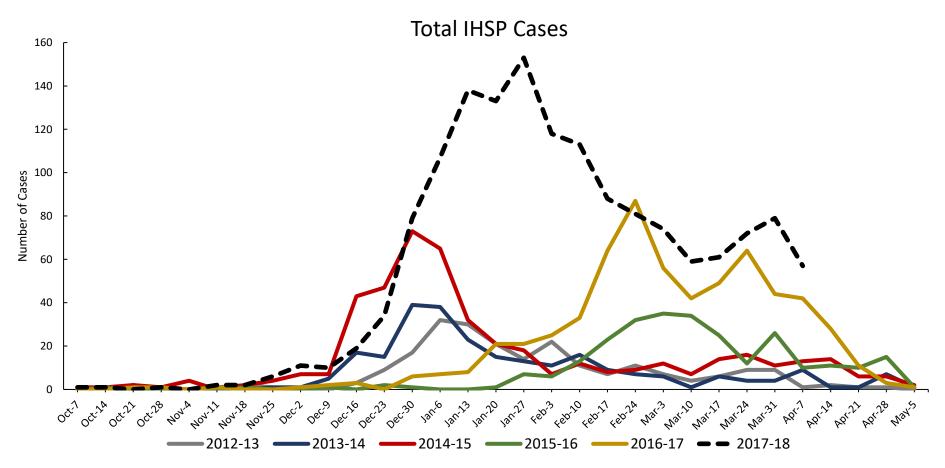
# National Surveillance

In the United States, 2.1% of outpatient visits were due to influenza-like illness, which is below the national baseline of 2.2%.

<sup>\*</sup>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.

### **Influenza Hospitalization Surveillance Project**

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, 2017 until Apr. 30, 2018, for Clinton, Eaton, Ingham, Genesee, and Washtenaw counties. Since Oct. 1, there have been a total of **1,499 (139 pediatric, 1,360 adult)** influenza-related hospitalizations reported in the catchment area for the 2017-2018 season.



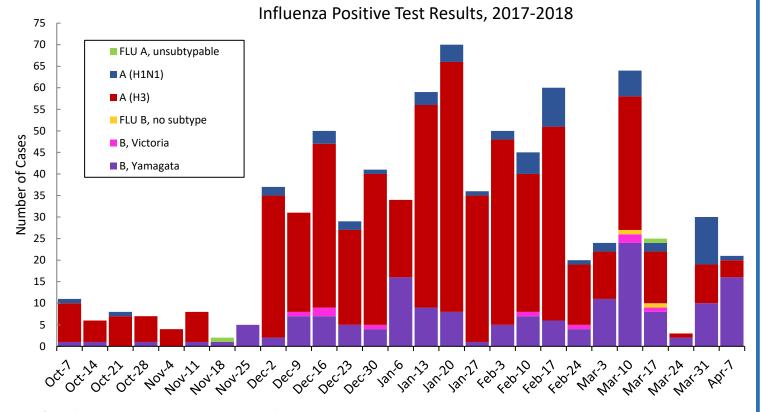
Genesee County was added in 2012-2013 Washtenaw County was added in 2017-2018

# **Laboratory Surveillance**

### **Week Ending April 7**

MDHHS Bureau of Laboratories reported 28 new positive influenza (17C, 0N, 3SE, 8SW).

Despirator / Virus	# Pos	Overell					
Respiratory Virus	С	N	SE	sw	Overall Total		
2009 A/H1N1pdm	17	4	20	18	59		
Influenza A/H3	212	41	103	209	565		
Influenza B	51	15	44	65	175		
Total	280	60	167	292	799		



<sup>\*</sup>Based on STARLIMS MDHHS BOL Testing Portal

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: **April 13, 2018**.

# Michigan Sentinel Clinical Lab Respiratory Virus Data

Ten (10) sentinel clinical labs (2SE, 2SW, 6C, 0N) reported during this week.

#### **SE Region**

- Influenza A: elevated; downward trend continues
- Influenza B: elevated; variable with some increases; predominant
- Parainfluenza: low
- RSV: modestly elevated; steady
- Adenovirus: low
- hMPV: modestly elevated; steady

#### **Central Region**

- Influenza A: elevated; steady or decreasing
- Influenza B: elevated; variable with some increases; largely predominant
- Parainfluenza: low; steady
- RSV: low or modestly elevated; steady or decreasing
- Adenovirus: low; steady
- hMPV: low or modestly elevated;
   variable with some increases

#### **SW Region**

- Influenza A: modestly elevated; decreasing
- Influenza B: moderately elevated; decreasing; predominant
- Parainfluenza: low
- RSV: modestly elevated; decreased from previous week
- Adenovirus: low
- hMPV: slightly elevated; slightly decreased from previous week

#### **North Region**

No data available

# **Congregate Setting Outbreaks**

### **Week Ending April 7**

There were 3 (0N, 1C, 0SE, 2SW) new respiratory viral outbreaks reported to MDHHS during this time period.

Respiratory outbreaks for the 2017-2018 season are listed in the table below.

Facility Type	С	N	SE	sw	Total	2015-2016 Total	2016-2017 Total
Schools: K-12 & College	9		2	3	14	10	25
Long-term Care / Assisted Living Facility	90	10	58	65	223	60	138
Healthcare Facility			1		3	11	23
Daycare				2	4	2	3
Homeless Shelter						0	1
Correctional Facility		4	1	4	10	2	2
Other						2	3
Total	104	14	62	74	254	87	195

### 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
- <u>Guideline for influenza and</u>
   <u>Respiratory Virus Outbreaks in</u>
   <u>Long-Term Care Facilities</u>

### **FluBytes**

- Study Suggests Adjuvanted Flu Vaccine Benefit for Children Under Age 2
- Study Shows Early Use of Antivirals During Flu May
   Reduce Death in Severe Hospitalized Influenza Cases
- BiondVax Launches US Phase 2 Trial of Universal Flu Vaccine

### **MDHHS Contributors**

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