



Michigan Flu Focus

Weekly Influenza Surveillance Report



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May 4, 2018

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Week Ending April 28, 2018 | WEEK 17

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

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

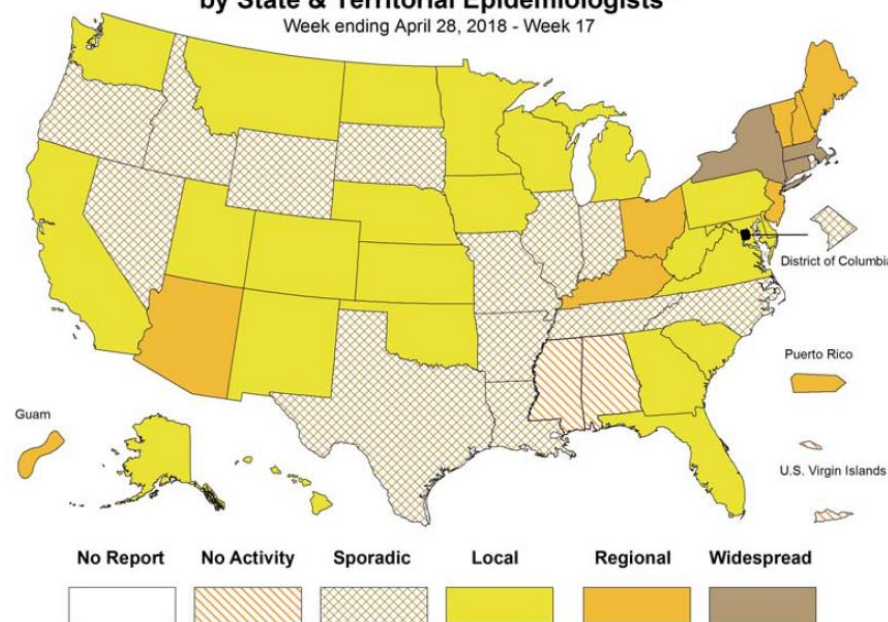
Updates of Interest

- Seasonal flu attack rate in unvaccinated people found the virus to infect 1 in 5 children and 1 in 10 adults each year, with symptomatic illness seen in about half of infections.
- Study finds no evidence of asthma long-term after nasal spray flu vaccine.

Click [here](#) for more details from CIDRAP.

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending April 28, 2018 - Week 17



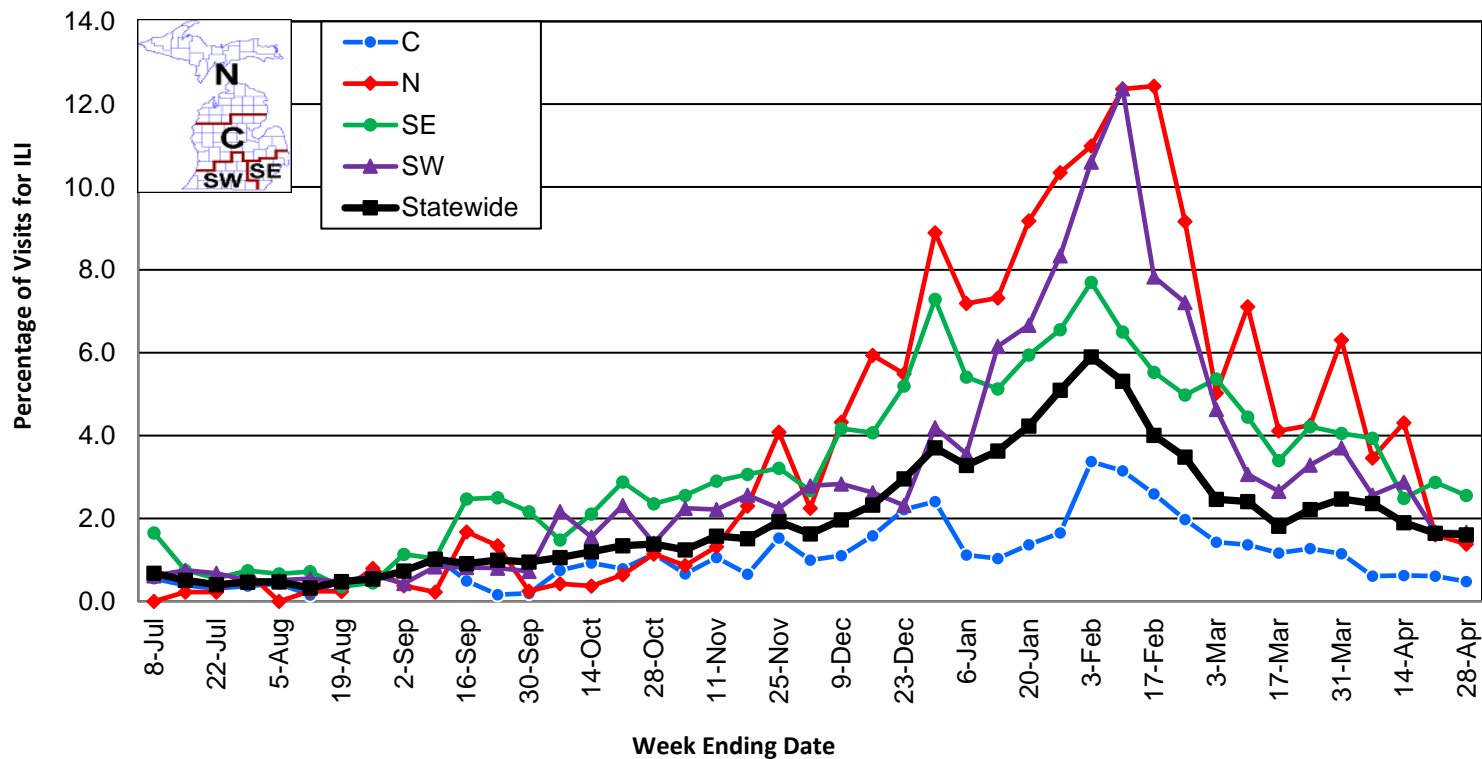
Influenza-associated Pediatric Mortality

To date, two (2) pediatric influenza deaths (A/H3) have been confirmed by MDHHS for the 2017-2018 flu season. Nationally, 163 influenza-associated pediatric deaths have been reported thus far for the 2017-2018 flu season.

- Number of reports by region: 31 total [C(7), N(3), SE(14), SW(7)]
- Proportion of visits due to ILI: ↓ 1.6 % (regional baseline*: 1.8%)
- A total of 137 patient visits due to ILI were reported out of 8,517 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.

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



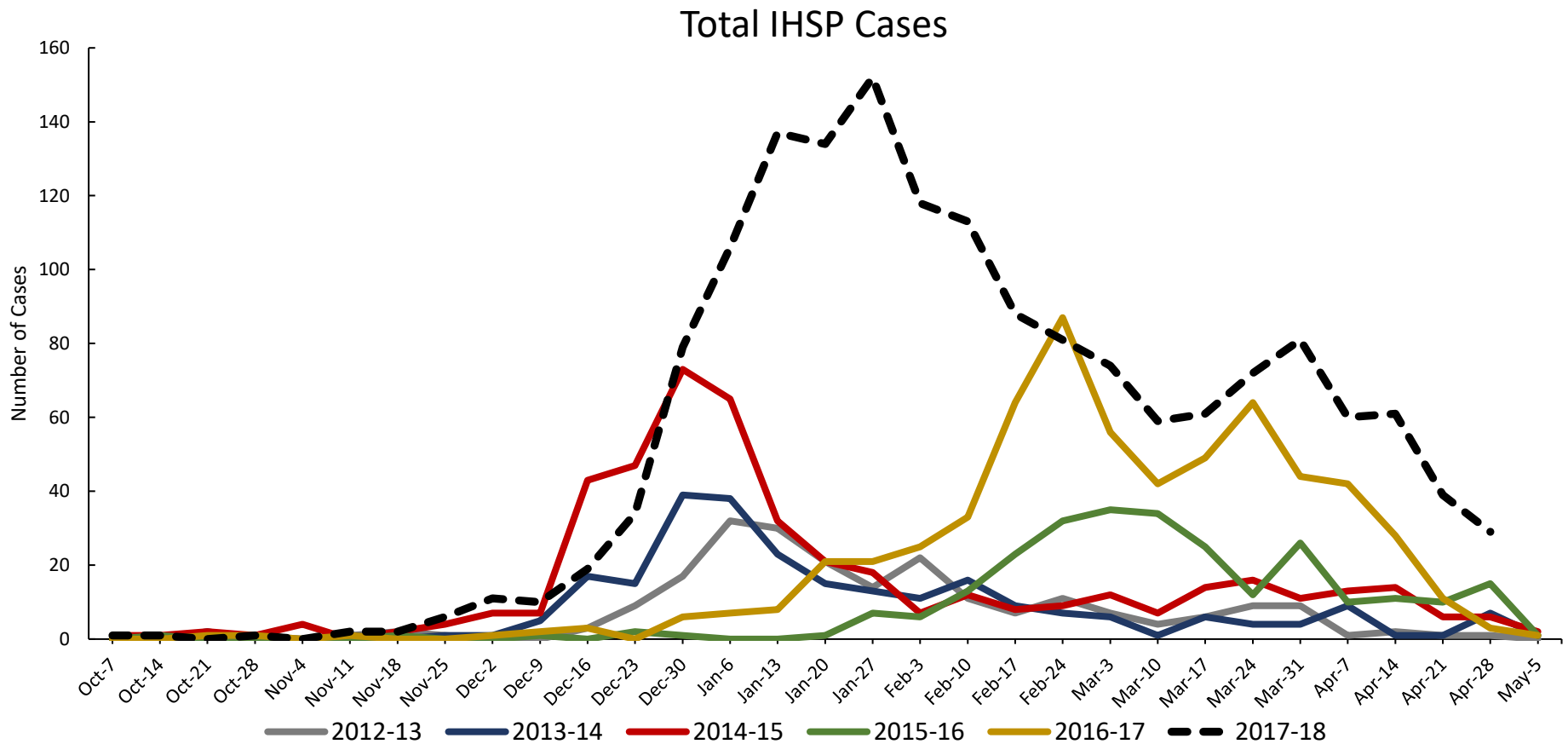
Become a Sentinel Provider! Contact: EckelS1@michigan.gov

National Surveillance

In the United States, 1.5% of outpatient visits were due to influenza-like illness, which is below the national baseline of 2.2%.

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 **1,631 (145 pediatric, 1,486 adult)** influenza-related hospitalizations reported in the catchment area for the 2017-2018 season.



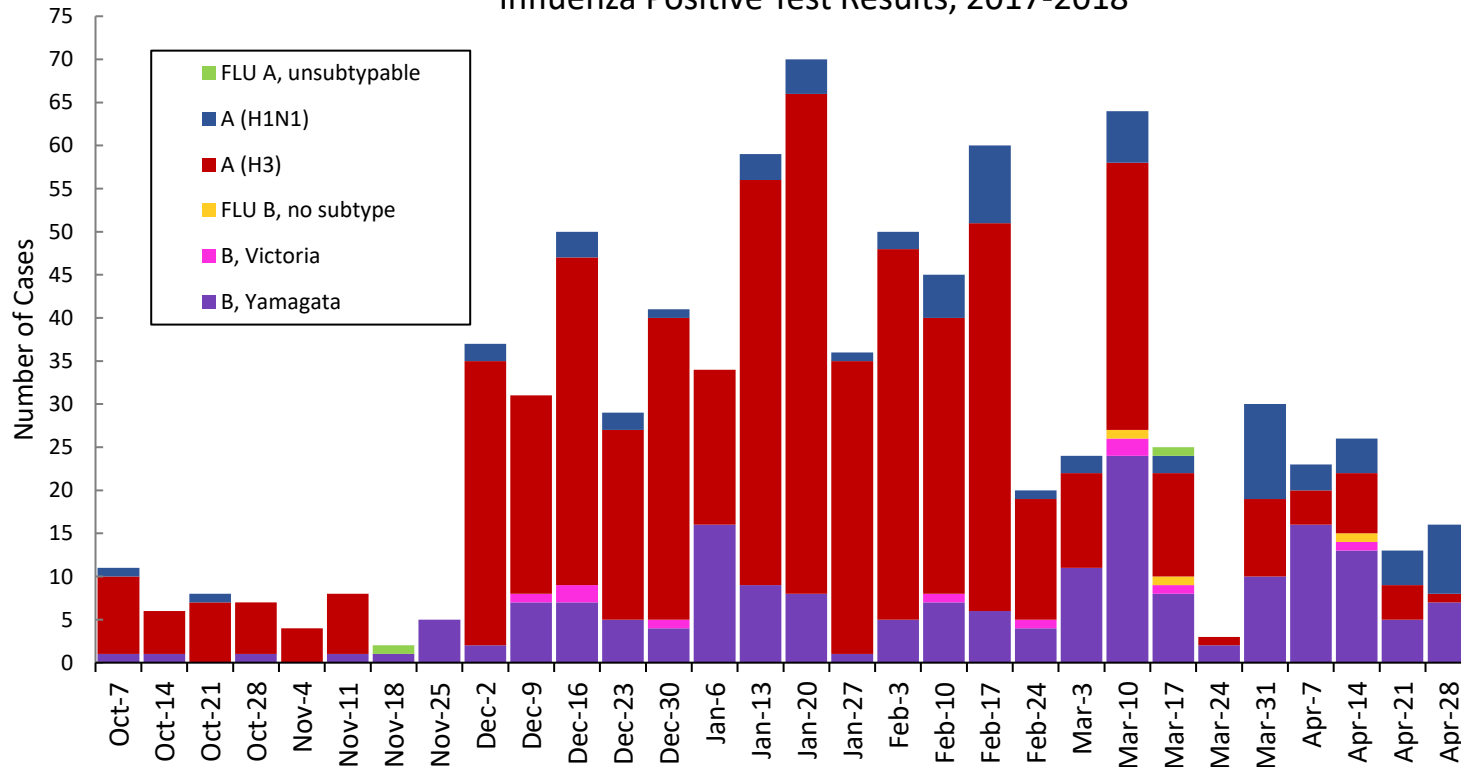
Genesee County was added in 2012-2013

Washtenaw County was added in 2017-2018

MDHHS Bureau of Laboratories reported 23 new positive influenza results (14C, 0N, 2SE, 7SW).

Respiratory Virus	# Positive Respiratory Virus Results by Region				Overall Total
	C	N	SE	SW	
2009 A/H1N1pdm	28	4	22	24	78
Influenza A/H3	214	41	105	219	579
Influenza B	67	15	48	79	209
Total	309	60	175	322	866

Influenza Positive Test Results, 2017-2018



*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: **May 4, 2018**.

Michigan Sentinel Clinical Lab Respiratory Virus Data

Seven (7) sentinel clinical labs (1SE, 2SW, 4C, 0N) reported during this week

SE Region

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

Central Region

- Influenza A: low; steady or decreasing
- Influenza B: low or modestly elevated; steady; predominant
- Parainfluenza: sporadic
- RSV: low; steady
- Adenovirus: sporadic
- hMPV: low

SW Region

- Influenza A: slightly elevated; downward trend
- Influenza B: moderately elevated; some decreases; predominant
- Parainfluenza: low
- RSV: low; downward trend
- Adenovirus: sporadic
- hMPV: slightly elevated; decreasing

North Region

- No data available

There were 5 (0N, 1C, 4SE, 0SW) 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	C	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	93	10	62	67	232	60	138
Healthcare Facility	2		2		4	11	23
Daycare	2			2	4	2	3
Homeless Shelter						0	1
Correctional Facility	1	4	1	4	10	2	2
Other						2	3
Total	107	14	67	76	264	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](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

FluBytes

- [Flu vaccine, even when just 20% effective, saves tens of thousands of lives](#)
- [Harsh flu season winding down, but it left its mark: Highest child death count in at least 5 years](#)

MDHHS Contributors

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