



# MI Flu Focus

## Influenza Surveillance Updates Bureaus of Epidemiology and Laboratories



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**MI's Current Influenza Activity Level:**  
Local

**Updates of Interest:**  
Nationally, about half of circulating H3N2 viruses appear to be drifted from the vaccine strain, see CDC HAN <http://emergency.cdc.gov/han/han00374.asp>.

### Influenza Surveillance Report for the Week Ending November 29, 2014

#### Michigan Disease Surveillance System

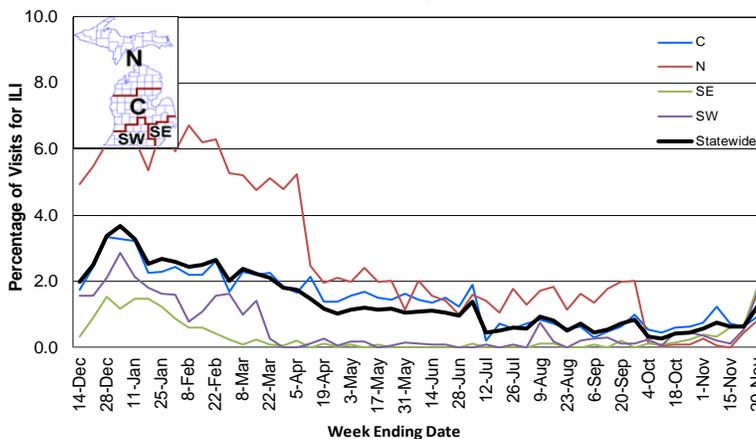
MDSS influenza data indicated that compared to levels from the previous week, aggregate reports decreased slightly while individual reports increased. The decrease in aggregate reports may be partially due to the school holiday break. Aggregate reports are lower than and individual reports are higher than levels seen during the same time period last year.

#### Emergency Department Surveillance

Compared to levels from the week prior, emergency department visits from constitutional complaints increased while respiratory complaints increased slightly. Levels of constitutional complaints were higher and respiratory complaints were slightly higher when compared to the same time period last year.

- 21 constitutional alerts (5SE, 4SW, 6C, 2N, 4 Statewide)
- 10 respiratory alerts (1SE, 2SW, 4C, 3N)

**Percentage of Visits for Influenza-like Illness (ILI) Reported by Sentinel Providers, Statewide and Regions 2014-15 Flu Season**



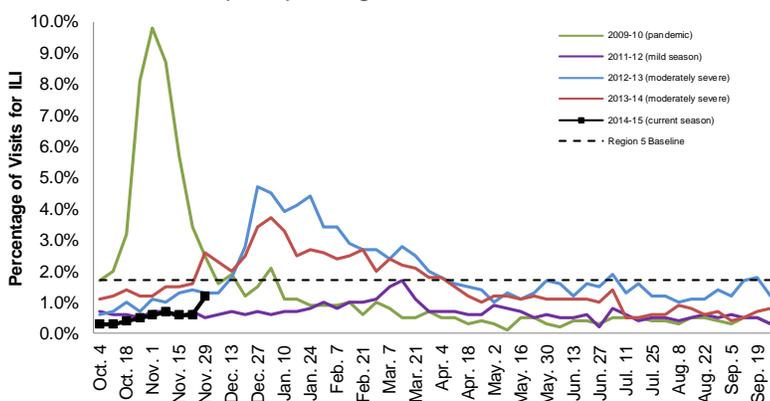
#### Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) increased to 1.2% overall; this is below the regional baseline (1.7%). A total of 87 patient visits due to ILI were reported out of 6,968 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region (33 total):

- C (17)
- N (3)
- SE (10)
- SW (3)

**Percentage of Visits for Influenza-like Illness (ILI) Reported by the US Outpatient Influenza-like Illness Surveillance Network (ILINet): Michigan, Select Seasons**



#### Become a Sentinel Provider!

As part of pandemic influenza surveillance, CDC and MDCH highly encourage year-round participation from all sentinel providers. New practices are encouraged to join the sentinel surveillance program today! Contact Stefanie DeVita at [devitas1@michigan.gov](mailto:devitas1@michigan.gov) for more information.

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### Hospital Surveillance

The CDC Influenza Hospitalization Surveillance Project provides population-based rates of hospitalization due to severe influenza illness through active surveillance and chart review of lab-confirmed cases, starting on October 1, 2014, for Clinton, Eaton, Genesee, and Ingham counties. One influenza-related hospitalization was reported (accumulated total since Oct. 1: 6 adults, 7 children).

The MDCH Influenza Sentinel Hospital Network monitors influenza hospitalizations reported voluntarily by hospitals statewide. Six hospitals (SE,SW,C) reported. Results are listed in the table below. **Additional hospitals are welcome to join; please contact Susan Bohm at [bohms@michigan.gov](mailto:bohms@michigan.gov).**

Age Group	New Flu Hospitalizations Reported	Total 2014-15 Flu Hospitalizations to Date
0-4 years	0	1 (C)
5-17 years	1 (C)	4 (C)
18-49 years	4 (SE)	10 (4C,6SE)
50-64 years	0	2 (SE)
65 years & older	12 (SE)	22 (SE)
<b>Total</b>	<b>17(1C,16SE)</b>	<b>39 (9C,30SE)</b>

### Laboratory Surveillance

MDCH Bureau of Laboratories reported 35 new positive influenza results: 34 A/H3 and 1 influenza B. A total of 81 positive influenza results have been reported for the 2014-15 season. Influenza results for the 2014-15 season are reported in the table below.

Respiratory Virus	# Positive Respiratory Virus Results by Region				Total	# Specimens Antigenically Characterized	# Tested for Antiviral Resistance
	C	N	SE	SW			# Resistant / Total # Tested
2009 A/H1N1pdm				1	1		
Influenza A/H3	3		57	10	70		
Influenza B			9	1	10		

In addition, 13 sentinel labs (4SE,2SW,6C,1N) reported influenza results. Ten labs (SE,SW,C) reported influenza A activity with further notable increases observed in the SE region. Two labs (SE) reported low influenza B activity. Five labs (SE,SW,C) reported low Parainfluenza activity. Five labs (SE,C) reported low RSV activity. Two labs (SE) reported sporadic to low Adenovirus activity. One lab (SE) reported sporadic hMPV activity. Most testing volumes are at low-to-moderate levels with most sites in the SE region showing further increases within the high range.

### Influenza-associated Pediatric Mortality

No pediatric influenza-associated influenza mortalities have been reported to MDCH for the 2014-15 season.

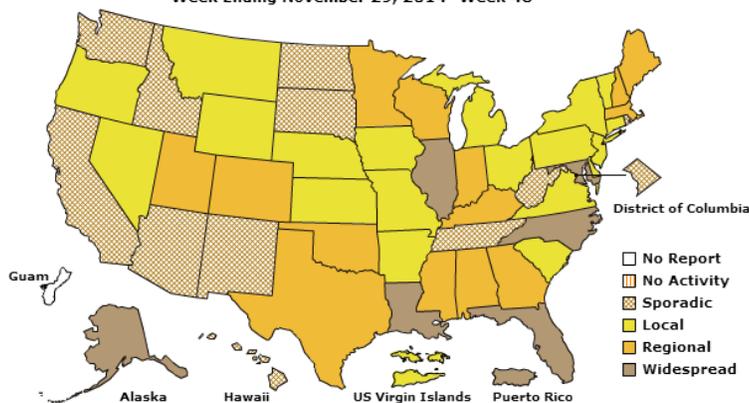
### Influenza Congregate Settings Outbreaks

One respiratory facility outbreak (influenza A/H3) in a long-term care facility was reported. There have been a total of three respiratory facility outbreaks reported to MDCH for the 2014-15 season.

**National:** Influenza activity increased in the United States, with 2.6% of outpatient visits due to influenza-like illness. No influenza-associated pediatric deaths were reported. Additional information is in the weekly FluView reports available online at: [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/).

**International:** Globally, influenza activity was low, with the exception of some Pacific Islands. Summary information is available online at [www.who.int/influenza/surveillance\\_monitoring/updates/latest\\_update\\_GIP\\_surveillance/en/](http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/).

A Weekly Influenza Surveillance Report Prepared by the Influenza Division  
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists\*  
Week Ending November 29, 2014- Week 48





## NATIONAL INFLUENZA VACCINATION WEEK

This week is [National Influenza Vaccination Week](#) (NIVW)! NIVW highlights the importance of continuing influenza vaccination throughout the entire flu season. See below Michigan's governor's proclamation and press release related to NIVW!

- [December 7-13, 2014: Influenza Vaccination Week](#)
- [MDCH Announces Flu Vaccination Challenge Winners, Reminds Residents to Immunize](#)

## INFLUENZA ACTIVITY THROUGHOUT THE U.S.

- CDC Health Advisory: [Potential for Circulation of Drifted Influenza A\(H3N2\) Viruses](#) (12/3/14)
- CDC: [Early Data Suggests Potentially Severe Flu Season](#) (12/4/14)
- [Central Florida woman dies of flu](#)
- [Central Michigan University sees flu outbreak](#)
- [Three influenza strains circulating in Iowa](#)
- [Wyoming seeing increased influenza activity](#)
- [National Influenza Vaccination Week comes at key time for Minnesota](#)

## CDC FLU TOOLKIT FOR LONG-TERM CARE

CDC has an updated [toolkit](#) for long-term care employers to increase influenza vaccination among healthcare personnel. The toolkit includes guidance documents, educational resources, community best practices, strategies to overcome vaccination barriers, and more. Make sure to pass along the toolkit to long-term care facilities in your area!

## INFLUENZA-RELATED JOURNAL ARTICLES

- [Identification of children at risk of influenza-related complications in primary and ambulatory care: a systematic review and meta-analysis](#)
  - Identified prematurity as new strong risk factor for flu complications in children
- [Influenza-related hospitalizations and ED visits in children less than 5 years: 2000-2011](#)
  - Study in Davidson County, Tennessee
  - Substantial illness burden, particularly when H3N2 predominated
- [Seasonal influenza vaccination is the strongest correlate of cross-reactive antibody responses in migratory bird handlers](#)
  - Individuals with preexisting immune responses to seasonal human flu viruses had substantial cross-reactive antibody responses, may lead to enhanced protection to novel flu viruses

## AVIAN INFLUENZA A(H5N1)

- [Egyptian toddler sickened with H5N1 avian influenza](#)
- [Egyptian dies of H5N1, brings total to seven](#)
- [Vietnam reports H5N1 bird flu outbreak among chickens](#)
- CIDRAP: [India reports 4th H5N1 outbreak; Japan detects H5N8 in wild bird](#)

## AVIAN INFLUENZA A(H7N9)

- [Avian influenza case confirmed in Fujian, China](#)
- [Notification of confirmed human cases of avian influenza A\(H7N9\) in Guangdong, Shanghai](#)
  - Since virus emerged in 2013, global total of [465 cases](#), 176 deaths

## OTHER AVIAN INFLUENZA NEWS

- [Tests confirm high-path H5N2 in British Columbia poultry](#)
- [140,000 birds face slaughter in British Columbia avian influenza outbreak](#)

## OTHER INFLUENZA-RELATED NEWS

- [It's National Influenza Vaccination Week, so join Blue and prevent the flu!](#)
- [United Way, Walgreens and FamilyWize provide free flu shots in Flint Thursday](#)
- [CDC Seasonal Flu Doses Distributed](#): ~144.5 million doses in U.S. as of November 28, 2014

## CLINICIANS LOOKING FOR FLU VACCINE

The [Influenza Vaccine Availability Tracking System](#) (IVATS) helps clinicians find influenza vaccine by providing information from wholesale vaccine distributors and manufacturers of U.S. licensed flu vaccine. Updates to IVATS are made throughout the flu season, so make sure to check back!

## FLU WEBSITES

[www.michigan.gov/flu](http://www.michigan.gov/flu)  
[www.cdc.gov/flu](http://www.cdc.gov/flu)  
[www.flu.gov](http://www.flu.gov)  
<http://vaccine.healthmap.org/>

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For questions or to be added to the distribution list, please contact Stefanie DeVita at [devitas1@michigan.gov](mailto:devitas1@michigan.gov).

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