



# 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:**  
As of November 24, 92 of 146 individuals in MI tested for EV-D68 by CDC were positive (63%); 4 of 92 had neurologic illness of undetermined origin.

### Influenza Surveillance Report for the Week Ending November 15, 2014

#### Michigan Disease Surveillance System

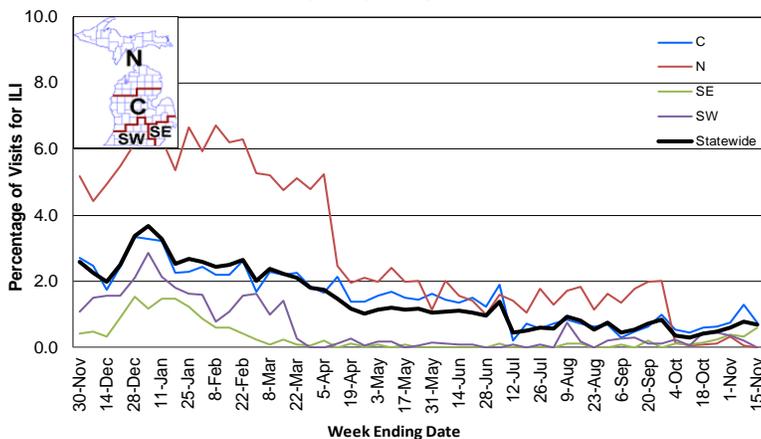
MDSS influenza data indicated that compared to levels from the previous week, aggregate reports decreased while individual reports increased. Aggregate reports are lower than and individual reports are higher than levels seen during the same time period last year.

#### Emergency Department Surveillance

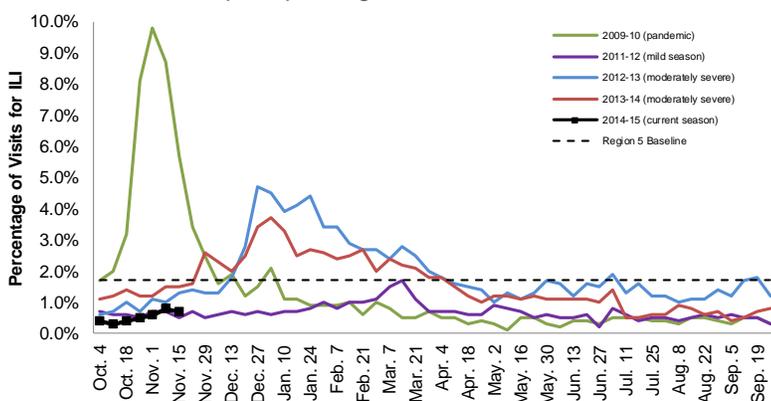
Compared to levels from the week prior, emergency department visits from constitutional complaints remained the same while respiratory complaints increased slightly. Levels of constitutional complaints were slightly higher and respiratory complaints were slightly lower when compared to the same time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

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

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



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



#### Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) decreased to 0.7% overall; this is below the regional baseline (1.7%). A total of 85 patient visits due to ILI were reported out of 12,537 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region (33 total):

- C (17)
- N (2)
- SE (11)
- SW (3)

#### 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, \*3 children). *\*Note – Correction to last week’s MIFF for data through Nov. 8, there were 6 adults, 2 children. One new pediatric hospitalization brings total through Nov. 15 to 6 adults, 3 children.*

The MDCH Influenza Sentinel Hospital Network monitors influenza hospitalizations reported voluntarily by hospitals statewide. Five 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	0	2 (C)
18-49 years	1 (C)	5 (4C,1SE)
50-64 years	1 (SE)	1 (SE)
65 years & older	4 (SE)	6 (SE)
<b>Total</b>	<b>6 (1C,5SE)</b>	<b>15 (7C,8SE)</b>

### Laboratory Surveillance

MDCH Bureau of Laboratories reported 13 new positive influenza results: 13 A/H3. A total of 38 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	2		23	3	28		
Influenza B			8	1	9		

In addition, 12 sentinel labs (4SE,2SW,5C,1N) reported influenza results. Six labs (SE,C) reported low or increasing influenza A activity. Three labs (SE) reported sporadic influenza B activity. Three labs (SE,SW) reported low or slightly increasing Parainfluenza activity. Six labs (SE,C,N) reported sporadic or low RSV activity. Two labs (SE) reported sporadic or low Adenovirus activity. One lab (SE) reported sporadic hMPV activity. Most testing volumes are at low-to-moderate levels with a few sites (SE) in the high range; overall an increasing trend is observed.

### Influenza-associated Pediatric Mortality

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

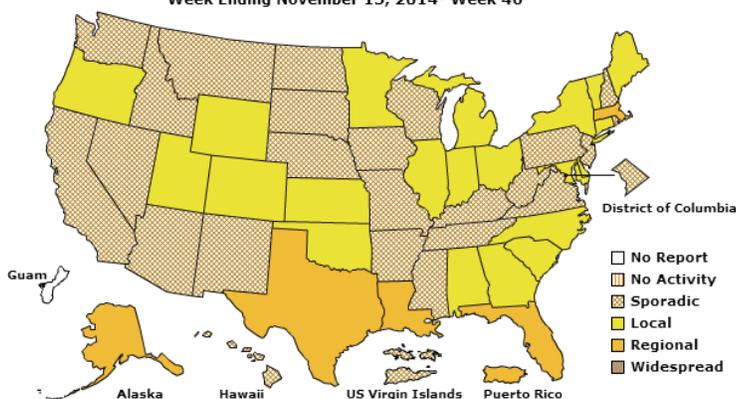
### Influenza Congregate Settings Outbreaks

One respiratory facility outbreak (influenza A/H3) in an adult care facility has been reported to MDCH for the 2014-15 season.

**National:** Influenza activity was low in the United States, with 1.6% 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 15, 2014- Week 46





## INFLUENZA ACTIVITY THROUGHOUT THE U.S.

- [Two Florida children dead from flu](#)
- [Flu affecting school absenteeism in Minnesota](#)
- [Two flu hospitalizations confirmed in El Paso County, Colorado](#)

## CDC NETCONFERENCE DEC. 3 ON FLU

CDC will present a *Current Issues in Immunization NetConference* on December 3 from 12:00-1:00 PM. Topics will include an update on flu activity and antiviral use policies in the U.S., how the Advisory Committee on Immunization Practices develops vaccine recommendations, and National Influenza Vaccination Week. This is a limited registration event, so [register](#) now!

## AVIAN INFLUENZA A(H7N9)

- WHO: [Human infection with avian influenza A\(H7N9\) virus - China](#)

## OTHER AVIAN INFLUENZA NEWS

- [Avian influenza kills 17,000 ducks in central Kerala, India](#)
- [OIE, FAO warn of H5N8 threat after another Dutch outbreak](#)
- [Germany reports second case of H5N8](#)
- [New avian influenza's rapid spread to Europe threatens poultry sector especially in low-resourced countries](#)
- [Extremely low risk to general public related to outbreaks of H5N8 in European poultry](#)

## CLINICIANS LOOKING FOR FLU VACCINE

Are you a healthcare provider looking to purchase more influenza vaccine? The [Influenza Vaccine Availability Tracking System](#) (IVATS) can help clinicians find influenza vaccine. IVATS has 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/>



## INFLUENZA-RELATED JOURNAL ARTICLES

- [Influenza pneumonia surveillance among hospitalized adults may underestimate burden of severe flu disease](#)
  - ~30% of flu-associated respiratory and circulatory hospitalizations, flu-associated critical illness hospitalizations did not have pneumonia diagnosis codes
- [Validation of wild-type influenza A human challenge model: A\(H1N1\)pdm09 dose finding study](#)
  - First wild-type flu A challenge study under an IND
  - Optimal dose of 10<sup>7</sup> TCID<sub>50</sub>, caused mild to moderate flu in 69% of individuals, mean viral shedding 4-5 days, viral shedding preceded symptoms by 12-24 hours, fever observed in only 10%
- [Effectiveness of seasonal flu vaccine in community-dwelling elderly people: a meta-analysis](#)
  - Netherlands study shows in elderly people, irrespective of vaccine match, flu vaccine is effective against lab-confirmed flu
- [Study suggests vaccinating against probable future influenza strains](#)
- [Genetics, receptor binding property, and transmissibility in mammals of naturally isolated H9N2 avian flu viruses](#)

## NATIONAL INFLUENZA VACCINATION WEEK

National Influenza Vaccination Week (NIVW) is December 7-13. NIVW highlights the importance of continuing influenza vaccination throughout the entire flu season. Check out CDC's [NIVW webpage](#) for a calendar of events, materials, a media toolkit, and more! Don't forget to [share your NIVW plans](#) with CDC and colleagues.

## OTHER INFLUENZA-RELATED NEWS

- [Montana fifth-graders send public health message on flu via video](#)
- [CDC Seasonal Flu Doses Distributed](#): ~139.7 million doses in U.S. as of November 14, 2014

FluBytes is distributed to MDCH flu partners for informational and communication purposes. Please feel free to distribute widely. Archived editions of FluBytes are available [here](#) and MI FluFocus archives are [here](#).

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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