



MI Flu Focus

Influenza Surveillance Updates Bureaus of Epidemiology and Laboratories

Michigan Department
of Community Health



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MI's Current Influenza Activity Level:
Sporadic

Updates of Interest:
As of October 29, 90 of 140 individuals in MI tested for EV-D68 by CDC were positive (64.3%); 3 of the confirmed cases had neurologic symptoms.

Influenza Surveillance Report for the Week Ending October 25, 2014

Michigan Disease Surveillance System

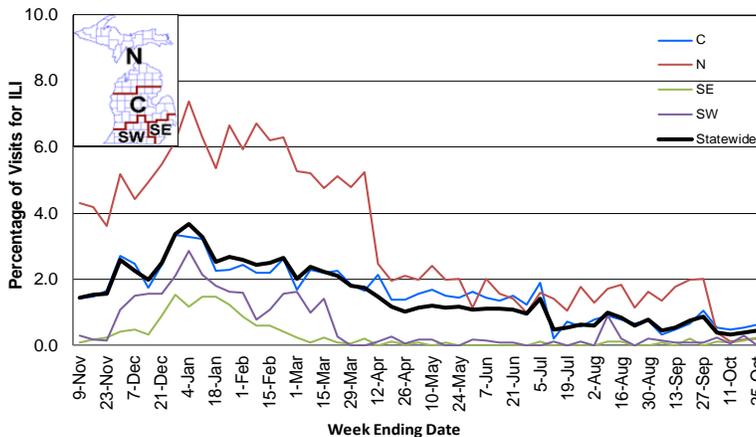
MDSS influenza data indicated that compared to levels from the previous week, aggregate reports remained the same while individual reports increased slightly but were still at sporadic levels. Aggregate reports were lower than and individual reports were slightly higher than levels seen during the same time period last year.

Emergency Department Surveillance

Compared to levels from the week prior, emergency department visits from constitutional and respiratory complaints decreased compared to the prior week. Constitutional complaints were similar to levels reported during the same time period last year, while levels of respiratory complaints were lower when compared to the same time period last year.

- 4 constitutional alerts (4C)
- 2 respiratory alerts (1SW, 1C)

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



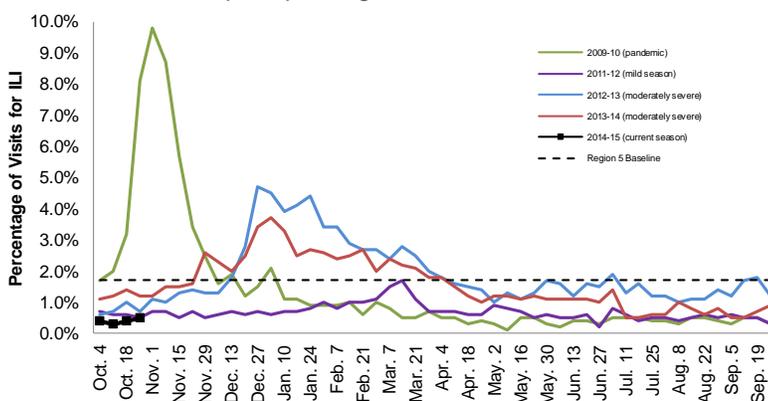
Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) increased to 0.5% overall; this is below the regional baseline (1.7%). A total of 49 patient visits due to ILI were reported out of 10,656 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region (30 total):

- C (14)
- N (5)
- SE (9)
- SW (2)

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 for more information.

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Hospital Surveillance

The CDC Influenza Hospitalization Surveillance Project provides population-based rates of 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. No new influenza-related hospitalizations were reported (accumulated total since Oct. 1: 2 adults, 2 children).

The MDCH Influenza Sentinel Hospital Network monitors influenza hospitalizations reported voluntarily by hospitals statewide. Five hospitals (3SE,SW,C) reported. Results are listed in the table below. **If hospitals have not received their influenza hospitalization tally sheets for 2014-2015, please contact Susan Bohm at bohms@michigan.gov.**

Age Group	New Flu Hospitalizations Reported	Total 2014-15 Flu Hospitalizations to Date
0-4 years	1 (C)	1 (C)
5-17 years	0	2 (C)
18-49 years	0	2 (C)
50-64 years	0	0
65 years & older	0	2 (SE)
Total	1 (C)	7 (5C,2SE)

Laboratory Surveillance

MDCH Bureau of Laboratories reported 7 positive influenza results: 3 A/H3 and 4 influenza B viruses. A total of 16 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	1		6	1	8		
Influenza B			6	1	7		

In addition, 11 sentinel labs (3SE,2SW,5C,1N) reported influenza results. Two labs (SE) reported sporadic or slightly increasing influenza A activity. Two labs (SE) reported sporadic influenza B activity. Three labs (SE,SW,C) reported sporadic Parainfluenza activity. Four labs (SE,SW,C,N) reported sporadic RSV activity. One lab (SE) reported Adenovirus activity. No labs reported hMPV activity. Most testing volumes are at low or slightly increasing levels, with a few sites in the moderate-to-high range.

Influenza-associated Pediatric Mortality

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

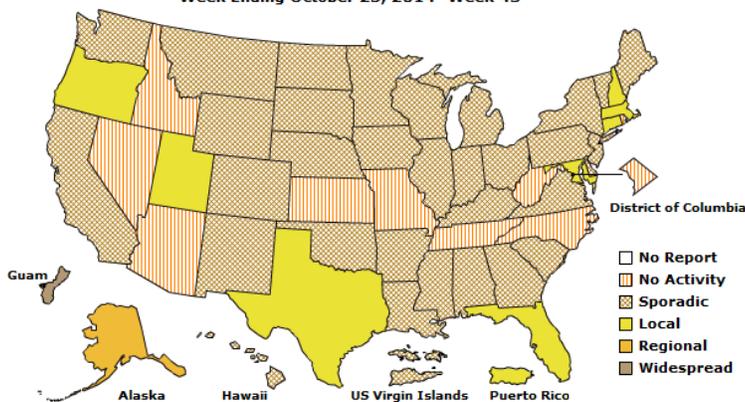
Influenza Congregate Settings Outbreaks

No respiratory facility outbreaks have been reported to MDCH for the 2014-15 season.

National: Influenza activity was low in the United States, with 1.4% 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/.

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/.

A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*
Week Ending October 25, 2014- Week 43





INFLUENZA ACTIVITY THROUGHOUT THE U.S.

- [Flu already taking its toll in central Ohio](#)
- [Delaware confirms 2 new cases of influenza](#)
- [First confirmed flu case reported in Kansas](#)

UPCOMING VOICES FOR VACCINES CALL

Voices for Vaccines is hosting a call on November 17 at noon with Dr. Litjen Tan, Immunization Action Coalition's chief strategy officer, answering questions about influenza. To register for the call, email info@voicesforvaccines.org.

UPCOMING NFID WEBINAR – FLU & DAYCARE

The National Foundation for Infectious Diseases (NFID) will be offering a webinar on November 18 at 11:00 AM – “Flu Care in Day Care.” The webinar will feature presentations from states with mandatory influenza vaccination day care mandates in place. To register for this webinar, you can do so on [NFID's website](#).

INFLUENZA-RELATED JOURNAL ARTICLES

- *Vaccine*: [Seasonal influenza vaccine dose distribution in 157 countries \(2004-2011\)](#)
 - Found many regions fall below World Health Assembly vaccine coverage goals
 - Americas received highest number of doses, Africa had lowest vaccine distribution
 - U.S. had highest per capita distribution of flu vaccine (477 doses per 1,000 people)
- *Emerging Infectious Diseases*: [Novel reassortant influenza A\(H5N8\) viruses among inoculated domestic and wild ducks, South Korea, 2014](#)
 - H5N8 strains may be easily transmitted by wild mallards and cause severe illness in domestic ducks

MDCH FALL IMMUNIZATION CONFERENCES

The MDCH fall immunization conference in Kalamazoo on November 19 still has space available. Make sure you register [now!](#)

FLU WEBSITES

www.michigan.gov/flu
www.cdc.gov/flu
www.flu.gov
<http://vaccine.healthmap.org/>

NATIONAL INFLUENZA VACCINATION WEEK

This year, National Influenza Vaccination Week (NIVW) will be held December 7-13. NIVW highlights the importance of continuing influenza vaccination throughout the entire flu season. Resources will be posted on CDC's [NIVW webpage](#). There is also a submission form for you to [share your NIVW plans](#) with CDC and colleagues.

AVIAN INFLUENZA A(H7N9)

- [Additional human case of avian influenza A\(H7N9\) in Jiangsu](#)
 - [To date](#), 457 human cases of H7N9 have been confirmed

AVIAN INFLUENZA A(H5N1)

- [Avian influenza A\(H5N1\) and A\(H9N2\) seroprevalence, risk factors for infection among Egyptians: a prospective, controlled seroepidemiological study](#)
 - Found antibodies to H5N1 in 2.1% of Egyptians exposed to poultry, indicates number of humans infected is larger than number of reported cases

OTHER INFLUENZA-RELATED NEWS

- Protein Sciences: [Flublok® influenza vaccine now approved for adults ages 18 and older](#)
- [CDC Seasonal Flu Doses Distributed](#): ~117.8 million doses in U.S. as of October 17, 2014

CLINICIANS LOOKING FOR FLU VACCINE

Are you a healthcare provider looking to purchase more influenza vaccine? There is a resource available to help you! The [Influenza Vaccine Availability Tracking System](#) (IVATS) can help clinicians find influenza vaccine. IVATS has information from approved, enrolled, and participating 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!

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.

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