



MI Flu Focus

Influenza Surveillance Updates Bureaus of Epidemiology and Laboratories



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MI's Current Influenza Activity Level:
Sporadic

Updates of Interest:
As of November 17, 92 of 142 individuals in MI tested for EV-D68 by CDC were positive (64.8%); 4 of 92 had neurologic illness of undetermined origin.

Influenza Surveillance Report for the Week Ending November 8, 2014

Michigan Disease Surveillance System

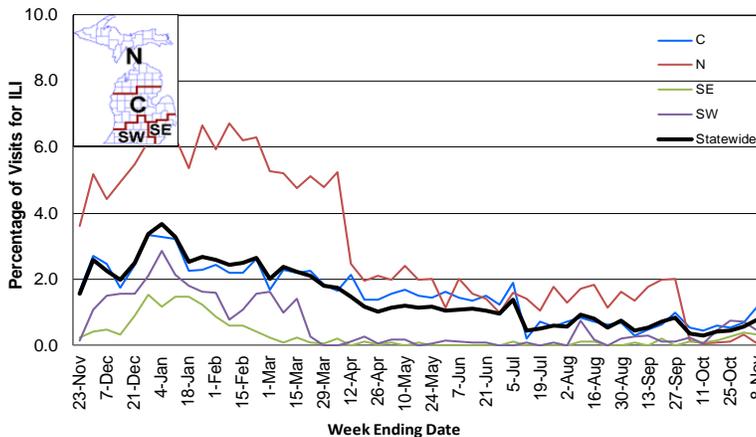
MDSS influenza data indicated that compared to levels from the previous week, aggregate reports decreased while individual reports increased but are still at sporadic levels. Aggregate reports are lower than and individual reports are higher than levels seen during the same time period last year.

Emergency Department Surveillance

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

- 16 constitutional alerts (1SE, 2SW, 11C, 2N)
- 3 respiratory alerts (3C)

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



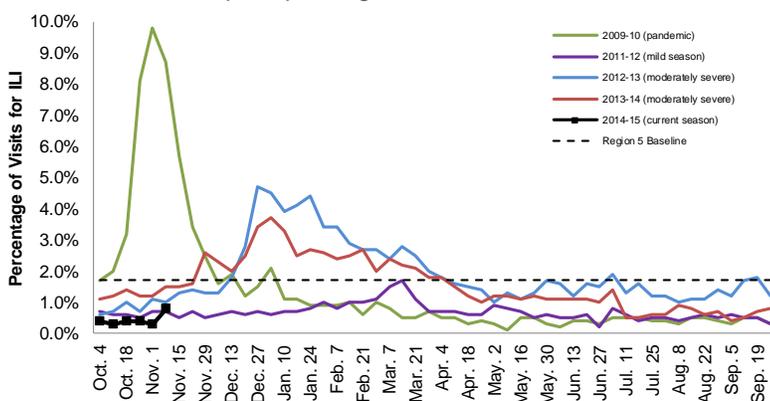
Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) increased to 0.8% overall; this is below the regional baseline (1.7%). A total of 103 patient visits due to ILI were reported out of 13,082 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region (31 total):

- C (16)
- N (5)
- SE (7)
- 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 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. Two influenza-related hospitalizations were reported (accumulated total since Oct. 1: 6 adults, 3 children).

The MDCH Influenza Sentinel Hospital Network monitors influenza hospitalizations reported voluntarily by hospitals statewide. Four 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.**

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	2 (1C,1SE)	4 (3C,1SE)
50-64 years	0	0
65 years & older	0	2 (SE)
Total	2 (1C,1SE)	9 (6C,3SE)

Laboratory Surveillance

MDCH Bureau of Laboratories reported no new positive influenza results. A total of 25 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		12	1	15		
Influenza B			8	1	9		

In addition, 13 sentinel labs (4SE,2SW,6C,1N) reported influenza results. Five labs (SE,C) reported low or slightly increasing influenza A activity. Two labs (SE) reported sporadic influenza B activity. Five labs (SE,SW,C) reported low Parainfluenza activity. Five labs (SE,SW,N) reported sporadic RSV activity. Three labs (SE,SW) reported low or slightly increasing 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.

Influenza-associated Pediatric Mortality

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

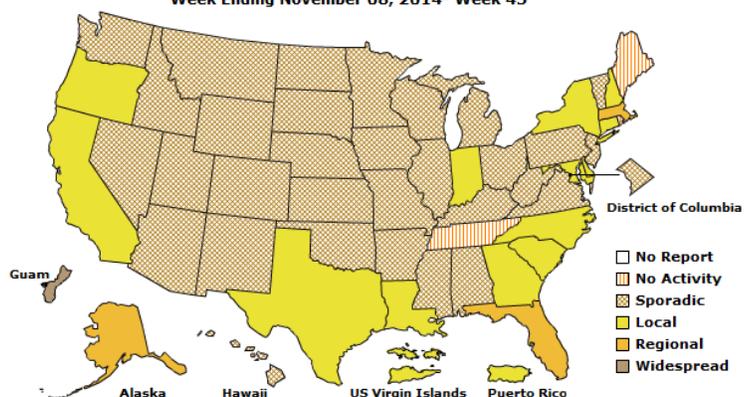
Influenza Congregate Settings Outbreaks

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

National: Influenza activity was low in the United States, with 1.6% 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/.

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 November 08, 2014- Week 45





INFLUENZA ACTIVITY THROUGHOUT THE U.S.

- MI: [Students vaccinated in school for influenza](#)

NFID WEBINAR – FLU & DAYCARE

The National Foundation for Infectious Diseases (NFID) held a webinar yesterday featuring states with flu vaccination mandates in place for day care. The archived webinar and presentation slides are available at www.nfid.org/webinars.

AVIAN INFLUENZA A(H7N9)

- [CHP notified of two cases of human infection of avian influenza A\(H7N9\) in Mainland](#)

AVIAN INFLUENZA A(H5N1)

- [Egyptian woman dies of H5N1, second death in 2014](#) (19-year-old woman)
- [Egyptian woman dies of bird flu, second death in two days](#) (30-year-old woman)

OTHER AVIAN INFLUENZA NEWS

- [Influenza A\(H5N8\) detected in Japanese tundra swan](#)
- CIDRAP: [H5N8 strikes birds in Netherlands, possibly England](#)
- [German, Dutch, UK bird flu outbreaks could be linked](#)
- [Avian influenza outbreak in duck breeders in UK confirmed as H5N8](#)
- Food and Agricultural Organization of the United Nations: [Avian H5N6: latest addition to emerging zoonotic avian flu threats in East, Southeast Asia](#)

INFLUENZA RESOURCES AVAILABLE

Slides from the October 2014 Advisory Committee on Immunization Practices (ACIP) meeting on presentations are now available [online](#).

In addition, The Michigan Health & Hospital Association has updated its healthcare personnel vaccination policy [website](#) for the 2014-15 flu season. Make sure to check out their webpage for helpful resources related to hospital vaccination policies.

FLU WEBSITES

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

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.

INFLUENZA-RELATED JOURNAL ARTICLES

- [Increasing uptake of live attenuated influenza vaccine among children in the U.S., 2008-2014](#)
- [Novel reassortant influenza A\(H5N8\) viruses among inoculated domestic and wild ducks, South Korea, 2014](#)
- [Contemporary avian influenza A virus subtype H1, H6, H7, H10, and H15 hemagglutinin genes encode a mammalian virulence factor similar to the 1918 pandemic virus H1 hemagglutinin](#)
- [The reliability of tweets as a supplementary method of seasonal influenza surveillance](#)

OTHER INFLUENZA-RELATED NEWS

- [New survey identifies serious disconnects in consumer understanding about influenza](#)
- [Could flu raise risk of fatal artery tear?](#)
- [CDC Seasonal Flu Doses Distributed: ~135.9 million doses in U.S. as of November 7, 2014](#)
- Food and Agricultural Organization of the United Nations: [Influenza surveillance in animals: what is our capacity to detect emerging influenza viruses with zoonotic potential?](#)

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!

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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