



MI Flu Focus

Influenza Surveillance Updates Bureaus of Epidemiology and Laboratories



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December 2, 2015 Vol. 12; No. 38

Influenza Surveillance Report for the Week Ending November 21, 2015

**MI's Influenza
Activity Level:**
Sporadic

Updates of Interest:

- Next week is [National Influenza Vaccination Week \(NIVW\)](#)!!! Get your flu vaccine, and encourage everyone 6 months & older to get a flu vaccine!

Michigan Disease Surveillance System

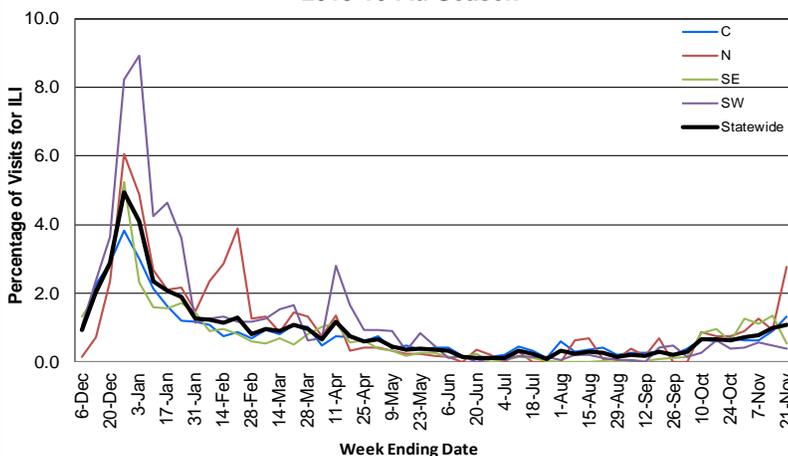
MDSS influenza data indicated that compared to levels from the previous week, aggregate reports had decreased while individual reports were similar. Aggregate and individual reports were both lower than levels seen during the same time period last year.

Emergency Department Surveillance

Compared to levels from the week prior, emergency department visits from both constitutional and respiratory complaints had increased. Levels of constitutional complaints were similar to those recorded during the same time period last year, while respiratory complaints were lower.

- 5 constitutional alerts (2SW, 2C, 1 Statewide)
- 7 respiratory alerts (3SW, 3C, 1N)
- Last MIFF report: 3 constitutional alerts (2C, 1N), 7 respiratory alerts (1SW, 6C)

Percentage of Visits for Influenza-like Illness (ILI) Reported by Sentinel Providers, Statewide and Regions 2015-16 Flu Season



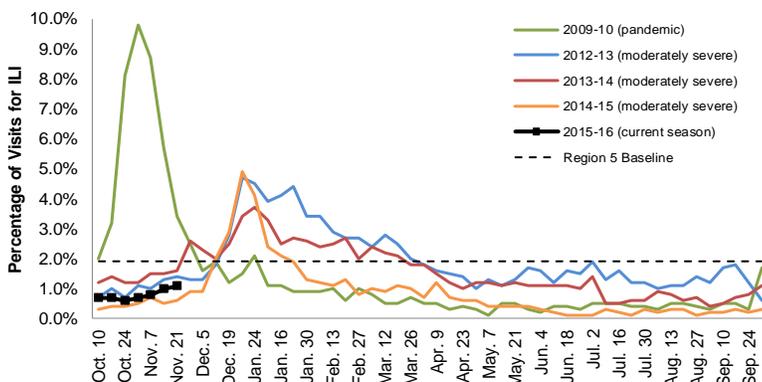
Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) increased to 1.1% overall; this is below the regional baseline (1.9%). A total of 102 patient visits due to ILI were reported out of 9,339 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region (24 total):

- C (11)
- N (3)
- SE (8)
- 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 MDHHS highly encourage year-round participation from all sentinel providers. New practices are encouraged to join the sentinel surveillance program today! Contact Stefanie Cole (ColeS4@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 beginning on Oct. 1, 2015, for Clinton, Eaton, Genesee, and Ingham counties. Since Oct. 1, there has been 1 pediatric and 1 adult hospitalization reported within the catchment area.

The MDHHS Influenza Sentinel Hospital Network monitors influenza hospitalizations reported voluntarily by hospitals statewide, and 14 hospitals (N, C, SE & SW) reported. Results for the 2015-16 flu season are listed in the table below. Additional hospitals are welcome to join; please contact Seth Eckel at eckels1@michigan.gov.

Age Group	New Flu Hospitalizations Reported	Total 2015-16 Flu Hospitalizations Reported to Date
0-4 years	0	0
5-17 years	0	0
18-49 years	0	1 (SE)
50-64 years	0	1 (SE)
65 years & older	0	1 (SE)
Total	0	3 (SE)

Laboratory Surveillance

MDHHS Bureau of Laboratories reported 2 new positive influenza results: 1 2009 A/H1N1pdm and 1 A/H3. A total of 16 positive influenza results have been reported for the 2015-16 season. Influenza results for the 2015-16 season are 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		6		7	1* (1 A/California/07/2009-like (H1N1)pdm09**)	
Influenza A/H3			7	2	9		

*Specimens antigenically characterized by CDC; **A/California/07/2009-like (H1N1)pdm09 is the H1N1 component of the 2015-16 Northern Hemisphere flu vaccines.

In addition, 12 sentinel clinical labs (3SE,2SW,6C,1N) reported influenza results. One lab (SE) reported sporadic influenza A activity. No labs reported influenza B activity. Four labs (SE,SW,C) reported sporadic or slightly increasing Parainfluenza activity. Five labs (SE,C) reported sporadic RSV activity. Four labs (SE,SW,C) reported sporadic or slightly increasing Adenovirus activity. One lab (SE) reported sporadic hMPV activity. Most testing volumes are in the low to moderate range.

Influenza Congregate Settings Outbreaks

There were no new respiratory facility outbreaks reported. There has been a total of 1 respiratory facility outbreak reported to MDHHS for the 2015-16 season. Respiratory facility outbreaks are listed in the table below by facility type and surveillance region.

Facility Type	C	N	SE	SW	Total
K-12 School	0	0	0	1	1
Total	0	0	0	1	1

Influenza-associated Pediatric Mortality

No influenza-associated pediatric deaths have been reported to MDHHS for the 2015-16 season.

National: In the United States, flu activity increased slightly with 1.6% of outpatient visits due to influenza-like illness, which is below the national baseline of 2.1%. Two of 10 regions reported ILI at or above region-specific baselines. One influenza-associated pediatric death was reported, bringing the total to 2 pediatric deaths for the 2015-16 flu season. Additional information is in the weekly FluView reports available at: www.cdc.gov/flu/weekly/.

International: Globally, influenza activity generally remained low in both hemispheres. More information is available at: www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/.

FluBytes



INFLUENZA-RELATED JOURNAL ARTICLES

- *Vaccine*: [Annual influenza vaccination reduces total hospitalization in patients with chronic hepatitis B virus infection: a population-based analysis](#)
 - Annual flu vaccination can reduce risk of hospitalization and mortality in patients with chronic HBV infection
- *The Lancet Infectious Diseases*: [Interventions to reduce zoonotic and pandemic risks from avian influenza in Asia](#)

UPCOMING FLU WEBINARS – DECEMBER

The National Foundation for Infectious Diseases (NFID) is offering two influenza webinars in December. On December 4, 12-1 PM (ET), an online panel will discuss communicating influenza prevention messages. You can register [here](#). On December 9, 12-1 PM (ET), the webinar is titled, “Influenza Vaccines: Giving the Right Dose at the Right Time.” Register for that webinar [here](#).

AVIAN INFLUENZA INTERNATIONAL NEWS

- [Highly pathogenic avian influenza H5N1 in poultry in France](#)
- [Vietnam \(H5N6\), Italy \(H5N2\), and France \(H5N1\) report avian influenza outbreaks](#)
- [Avian flu detected in Vietnam \(H5N1\), Canada \(H5N2\)](#)

FLU WEBSITES

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

AVIAN INFLUENZA NEWS IN NORTH AMERICA

- [Avian flu \(H5N2\) detected in wild duck shot in Fraser Valley, British Columbia](#)
- [Minnesota eases ban on poultry exhibits](#)
- [USDA issues second request for proposals for highly pathogenic avian influenza vaccine](#)
- [USDA developing biosecurity audits](#)
- [Canadians reminded of US poultry import rules after bird flu](#)
- Any reports of sick or dead birds should be forwarded immediately to the proper agency:
 - For domestic poultry, contact MDARD:
 - M-F 8AM-5PM, 1-800-292-3939
 - After hours/weekends, 517-373-0440
 - For wildlife (die-off of waterfowl, gulls, or shorebirds), contact DNR:
 - M-F 8AM-5PM, 517-336-5030
 - After hours/weekends, 1-800-292-7800

OTHER INFLUENZA-RELATED NEWS

- [Flu Crew fights the battle against influenza](#)
- [FDA approves first seasonal influenza vaccine containing an adjuvant](#)
- WHO: [Review of the 2015 influenza season in the Southern Hemisphere](#)
- [Sickweather ahead: mobile app tracks Facebook, Twitter posts on illness](#)
- [Predicting flu: UMass Medical School team developing tools for anticipating viral evolution](#)
- [Merck Animal Health pioneers H3N2 canine influenza vaccine](#)
- CDC: [132.7 million doses of flu vaccine distributed in U.S.](#)
- CDC: [2015 National Influenza Vaccination Week \(NIVW\) Key Points](#)

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 Cole at ColeS4@michigan.gov.

MDHHS Contributors

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