



MI Flu Focus

Influenza Surveillance Updates Bureaus of Epidemiology and Laboratories



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MI's Current Influenza Activity Level:

This will be reported beginning with the week ending October 4, 2014 report

Updates of Interest:

As of October 6, 31 of 42 individuals in MI tested for EV-D68 by CDC were positive (73.8%); 1 of the confirmed cases had neurologic symptoms.

Influenza Surveillance Reports for the Week Ending Date September 27, 2014

Michigan Disease Surveillance System

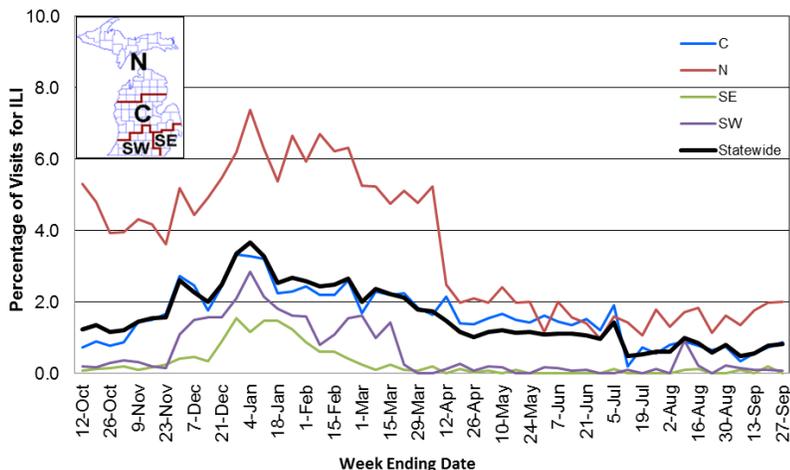
MDSS influenza data indicated that compared to levels from the previous week, individual reports are similar and are still at sporadic levels while aggregate reports decreased. Aggregate and individual reports are lower than levels seen during the same time period last year.

Emergency Department Surveillance

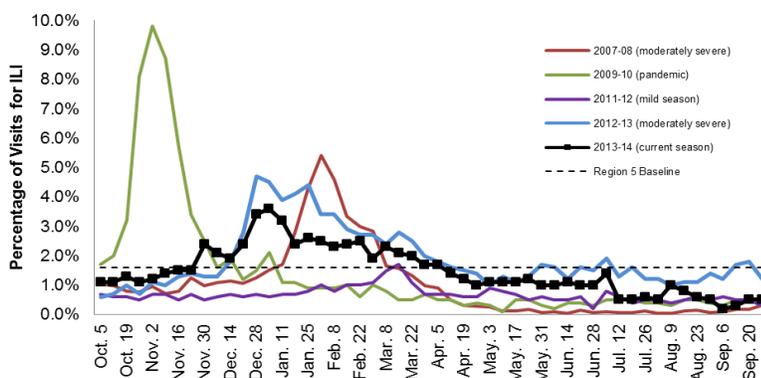
Compared to levels from the week prior, emergency department visits from constitutional complaints increased slightly, while emergency department visits due to respiratory complaints decreased slightly compared to the prior week. Constitutional complaints are slightly higher and respiratory complaints are higher than levels reported during the same time period last year.

- 8 constitutional alerts (2SW,6C)
- 2 respiratory alerts (2C)

Percentage of Visits for Influenza-like Illness (ILI) Reported by Sentinel Providers, Statewide and Regions 2013-14 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) remained the same at 0.8% overall; this is below the regional baseline (1.6%). A total of 32 patient visits due to ILI were reported out of 6,946 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region (25 total):

- C (8)
- N (5)
- SE (9)
- 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 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 for Clinton, Eaton, Genesee, and Ingham counties. The 2013-14 season totals (October 1, 2013 – April 30, 2014) are listed in the table below. Surveillance for the 2014-15 season starts on October 1, 2014.

IHSP Hospitalizations	New Reports	Total for Season	Rate per 100,000 Persons
Pediatric	---	74	35.4
Adult	---	180	26.4

The MDCH Influenza Sentinel Hospital Network monitors influenza hospitalizations reported voluntarily by hospitals statewide. Reporting for the 2013-14 season has concluded. Between September 29, 2013 and April 26, 2014, there were 458 hospitalizations reported. We are looking for more volunteer hospitals! Please contact Susan Bohm at bohms@michigan.gov.

Laboratory Surveillance

MDCH Bureau of Laboratories reported 3 positive influenza A/H3 (3SE). For the 2013-14 season (starting September 29, 2013), MDCH has identified 419 positive influenza results (see table below). The 2014-15 season begins on September 28, 2014.

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	94	38	77	132	340	3	0 / 123
Influenza A/H3	6	1	20	13	40		0 / 15
Influenza A unsubtypeable			1		1		
Influenza A & B (LAIV recovery)			1		1		
Influenza B	9	6	11	16	42	31 (2 B/Brisbane, 29 B/Massachusetts)	
RSV				2	2	---	---
Adenovirus			1	1	2	---	---
Parainfluenza			1	2	3	---	---
Human metapneumovirus				4	4	---	---

In addition, 10 sentinel labs (3SE,2SW,4C,1N) reported influenza results. One lab (SE) reported sporadic influenza A activity. No labs reported influenza B activity. One lab (SW) reported sporadic Parainfluenza activity. One lab (SE) reported sporadic RSV activity. One lab (SE) reported sporadic adenovirus activity and one lab (SW) reported sporadic hMPV activity. Most testing volumes are at low levels, with a few sites approaching moderate levels. One site (SE) is at high volume.

Influenza-associated Pediatric Mortality

2 pediatric influenza-associated influenza mortalities (1SE,1C) have been reported to MDCH for the 2013-14 season.

Influenza Congregate Settings Outbreaks

No new respiratory outbreaks were reported during the past week. One previously reported outbreak is still under investigation. A total of 27 respiratory outbreaks (3SE,12SW,9C,3N) were reported during the 2013-14 season:

- Influenza 2009 A/H1N1pdm: 4 (1SE,2SW,1C)
- Influenza A/H3 positive: 1 (1SW)
- Influenza A: 4 (3SW,1C)
- Influenza B: 3 (1SW,1C,1N)
- Influenza positive: 1 (1SW)
- Human metapneumovirus: 2 (1SE,1N)
- RSV: 1 (1SW)
- Parainfluenza: 1 (1SW)
- Negative/no testing: 9 (1SE,1SW,6C,1N)

National: Influenza activity was low across the United States, with 1.1% of outpatient visits due to influenza-like illness. Additional information is available from the weekly FluView reports available online at: <http://www.cdc.gov/flu/weekly/>.

International: The Southern Hemisphere flu season is winding down, but flu activity is still at high levels in Australia and Oceania. Summary information is available online at http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/.

FluBytes



UPCOMING VOICES FOR VACCINES CONFERENCE CALL

Parents are vaccine-hesitant for many reasons, and healthcare professionals need to be prepared for having conversations about immunizations with them. Voices for Vaccines is hosting a conference call on October 14 at 1:30 PM featuring three moms who were formerly anti-vaccine. To register for the call, send an email to info@voicesforvaccines.org.

INFLUENZA-RELATED JOURNAL ARTICLES

- *Pediatrics*: [Safety of live attenuated influenza vaccination in cystic fibrosis](#)
 - No increased risk of respiratory deterioration or hospitalization associated with LAIV in study population
- [Study finds bat influenza viruses pose little risk to humans](#)
- [Comparative pathology of pigs infected with Korean H1N1, H1N2, or H3N2 swine influenza A viruses](#)
 - Different viruses had different pulmonary pathologic patterns

AVIAN INFLUENZA A(H7N9)

- [Serological report of influenza A\(H7N9\) infections among pigs in southern China](#)
 - Pigs in southern China shown to be infected with multiple avian influenza viruses
- NIH: [Candidate H7N9 avian flu vaccine works better with adjuvant](#)

FLU WEBSITES

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

MDCH FALL REGIONAL IMMUNIZATION CONFERENCES

Registration for MDCH fall immunization conferences is [open](#)! The Dearborn conference on October 23 is full. Make sure you register soon before other locations fill up. The following conferences still have spots open:

- Oct. 9: Gaylord
- Oct. 21: Flint
- Oct. 24: Troy
- Nov. 18: Grand Rapids
- Nov. 19: Kalamazoo
- Nov. 21: East Lansing

OTHER INFLUENZA-RELATED NEWS

- [CDC Seasonal Flu Doses Distributed](#): ~87.9 million doses distributed in U.S. (week of September 26, 2014)
- [Brigham and Women's nurses sue over flu shot mandate](#)
- [Preschools consider requiring flu shots](#)
- [Group to vaccinate 200,000 Florida students for free](#)
- [WHO says switch 2 of 3 strains in 2015 Southern Hemisphere flu vaccine](#)
- CDC: [Flu vaccination by jet injector Q&A](#)
- Immunization Action Coalition: [First Do No Harm: Mandatory Influenza Vaccination Policies for Healthcare Personnel Help Protect Patients](#) (9/14)
- [Micronesia issues public health advisory on influenza-like illness](#)
- [H5N8 outbreak on South Korean duck farm](#)

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For questions or to be added to the distribution list, please contact Stefanie DeVita at devitas1@michigan.gov.

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