Influenza Situation Report
2014-2015 Seasonal Influenza Week 6
(Feb. 08 – Feb. 14, 2015)

Marion County Public Health Department, IN 2015-02-20,
Please send comments or suggestions about content to epidemiology@hhcorp.org.
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Updates on Most Recent Local Activity: Current Week (Week 7, Feb. 15 – 21)

- The percent of influenza-like illness (ILI) in Marion County has decreased substantially since peaking at 4.6% on the week of Dec. 14, 2014. **Note:** During the summer off-season, percent ILI averages 0.5%.
- The percent and count of emergency department (ED) visits associated with ILI during the time frame Feb. 15-19 is 1.4% and 115, respectively.

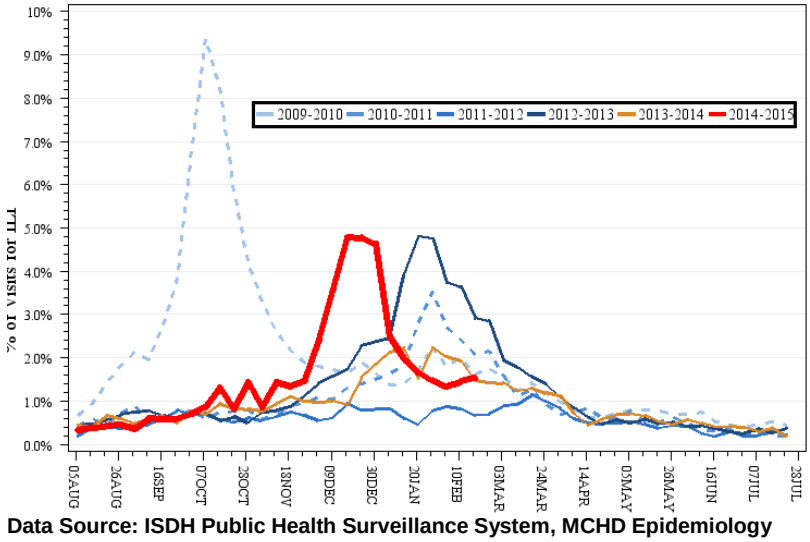
Local (Week 6, Feb. 08 – 14)

http://www.mchd.com/FLU/Flu_edv.htm

- The percent and count of ED visits associated with ILI is 1.4% and 152, respectively.
- The age group 0-4 has the highest percent ILI at 4.5%.

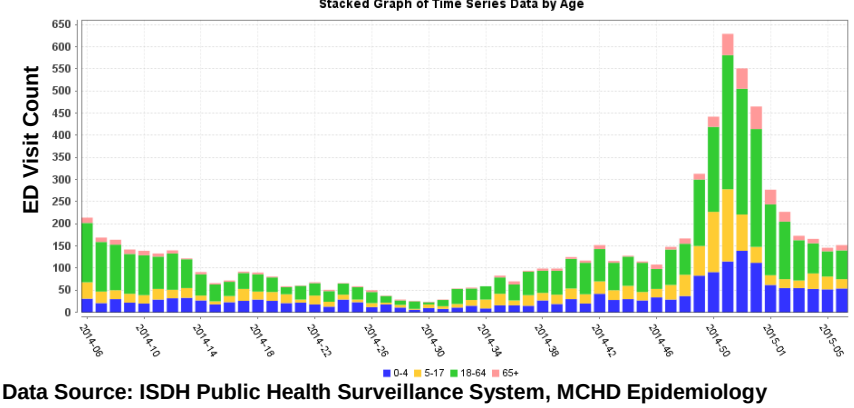
Emergency Department Visits for Influenza-Like Illness

Figure 1. Percent Influenza-like Illness of all ED Visits at Marion County Hospitals, Current Year and Previous Seasons



Data Source: ISDH Public Health Surveillance System, MCHD Epidemiology

Figure 2. Weekly Count of ILI ED Visits for Marion County Hospitals, by Age Group (Only includes currently contributing hospital systems)



Data Source: ISDH Public Health Surveillance System, MCHD Epidemiology

Table 1. Age group specific percent of ILI ED Visits at Marion County Hospitals, by Age Group

Age Group (years)	Week 6 %ILI	Week 2-5 Average %ILI (Avg.)
<5	4.5%	4.3%
5-17	1.7%	2.2%
18-64	0.9%	1.2%
65+	0.7%	0.8%
Aggregate	1.4%	1.6%

Figure 1 represents the percent of all ED visits that were categorized as ILI. The overall percent ILI for Week 6 is 1.4% (an increase from last week).

ILI visit means that the patient reported fever with cough or sore throat, or used the word "flu" to describe either their symptoms or their reason for the ED visit.

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Indiana (Week 6, Feb. 08 – 14)

- Indiana is experiencing *minimal* and *regional* influenza activity.

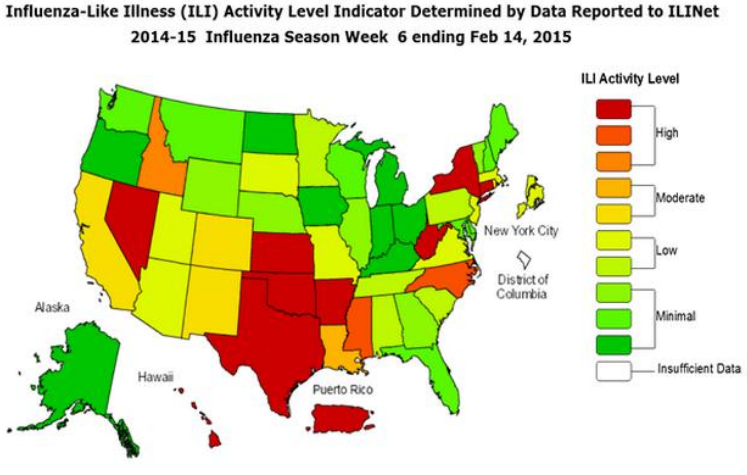
No Week 6 updates from ISDH are yet available. Below is a restatement of Week 5 activity for further state activity context.

http://www.in.gov/isdh/files/Weekly_Influenza_Report_Week_5_2014-2015.pdf

- ISDH reports 2.18% ILI at sentinel provider sites and 1.41% ILI at ED visits. This is an increase in sentinel surveillance and a decrease in ED surveillance compared to last week.
- The total number of mortalities in Indiana this flu season is 121.
- Among samples tested at the state lab during Week 5, 1 specimen tested positive for Influenza A/H3 seasonal virus, and 2 specimens tested positive for Influenza B seasonal virus.

National (Week 6, Feb. 08 – 14)

http://www.cdc.gov/flu/weekly/



- The majority of states are reporting *minimal* and *widespread* influenza activity.
- An estimated 3.2% of patient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network were due to ILI.

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This is a decrease from the previous week (3.8%) and above the national baseline (2.0%).

- CDC reports 6 confirmed influenza-related pediatric deaths, increasing the season mortality total to 86.
- The highest rates of hospitalization are in patients of age 65 and older (242.2 per 100,000 population) and 0-4 (43.3 per 100,000 population).
- "Among all hospitalizations, 12,706 (95.5%) were associated with influenza A, 499 (3.7%) with influenza B, 44 (0.3%) with influenza A and B co-infection, and 59 (0.4%) had no virus type information. Among those with influenza A subtype information, 3,789 (99.7%) were A(H3N2) virus and 10 (0.3%) were A(H1N1)pdm09."

Parotitis and Respiratory Viruses

- Marion County physicians are reporting a high number of cases in which influenza A has been complicated by parotitis (previously known to be a rare event).
- Dr. John Christenson, Professor of Clinical Pediatrics at the Riley Hospital for Children at IU Health, recommends that RVP-PCR be carried out for such patients. If you have a case, you should also perform a mumps PCR using a buccal swab specimen and test for influenza and/or other viruses if you can.

CDC Health Advisory

http://emergency.cdc.gov/han/han00375.asp

- "Approximately two-thirds of H3N2 viruses that have been tested at CDC are antigenically or genetically different from the H3N2 vaccine virus."
- CDC is reminding clinicians of the efficacy of influenza antiviral medications in treating patients and reducing complications.

Early Estimates of Seasonal Influenza Vaccine Effectiveness

http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6401a4.htm

- Estimated overall vaccine effectiveness for the flu vaccine being circulated in the U.S. this flu season is 23% (95% confidence interval: 8% - 36%).

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