

Influenza Situation Report

2/10/13-2/16/13 (Week 7)

Marion County Public Health Department, IN 2013-02-22, 1PM DR1883

Please send comments or suggestions about content to epidemiology@hhcorp.org.

[Links to Immunization Clinics](#)

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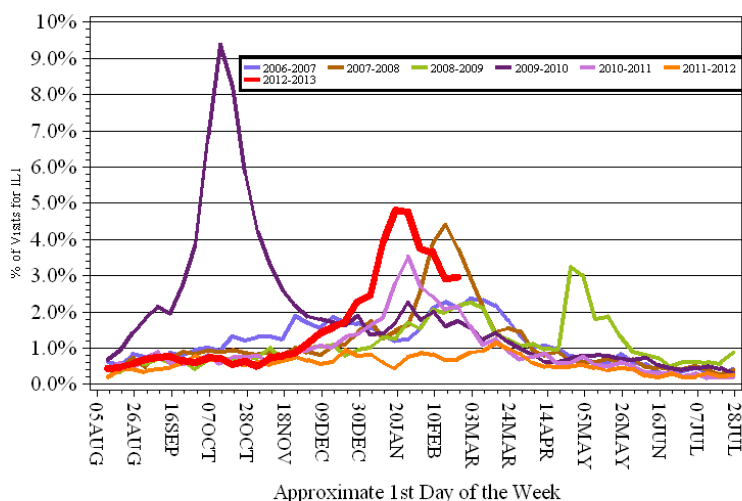
[Private Pharmacy Clinics](#)

Current Local Trends

- There were 304 ILI ED visits (3.06% of 9,928 ED visits) during Week 7 compared to 379 visits in Week 6 (3.8% ILI). This is a 19.8% decrease in ILI visits from Week 6 (379 visits) to Week 7 (304 visits).
- ILI visits remain elevated, but there have now been four weeks of declining ILI ED visits.
- So far this week (2/17-2/21/13) there have been 216 ILI ED visits (3.02% of 7,144 total ED visits).
- Updated information in the Treatment/Prevention section on vaccine effectiveness and new vaccine approvals for 2013/14 season.

Emergency Department Visits for Influenza-Like Illness

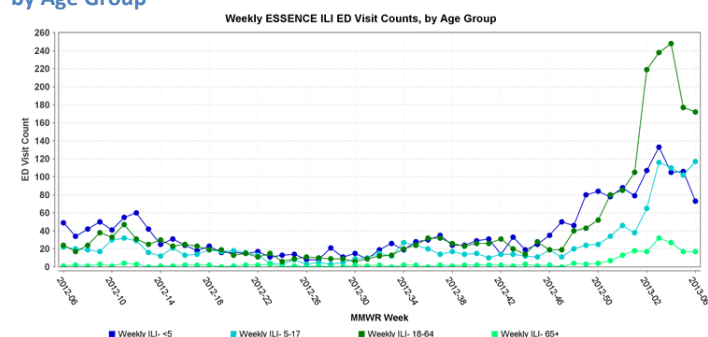
Figure 1. Percent Influenza-like Illness of all Marion County Hospital ED Visits, Current Year and Previous Seasons



Last updated 22FEB2013 08:00

Data Source: ISDH Public Health Surveillance System, MCHD Epidemiology DR1202

Figure 2. Weekly Count of ILI ED Visits for Marion County Hospitals, by Age Group



Data Source: ISDH Public Health Surveillance System, MCHD Epidemiology

Table 1. Count and Percent of ILI ED Visits at Marion County Hospitals, by Age Group

Age Group (years)	Current Week		Previous 4 Week Average	
	Count of ILI	% ILI	Count of ILI (Avg)	% ILI (Avg)
<5	70	6.0%	104	9.3%
5-17	78	6.1%	111	8.9%
18-64	142	2.4%	209	3.3%
65+	14	1.0%	23	1.7%
Unknown	0	0.0%	0	0.0%
Total	304	3.06%		

Figure 1 represents the percent of all ED visits that were categorized as influenza-like illness. As described in the graph, the percent of ILI has decreased from a peak in Week 3 and 4. Percent ILI has been decreasing for the past 4 weeks.

All age-specific percent ILI for Week 7 have dropped below the average of the previous 4 weeks.

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.

Marion County

- Percent ILI remains significantly higher at Marion County Hospitals compared to the same week last year (73 ILI visits or 0.63% of 11,597 ED visits for Week 7 2012).
- Influenza related deaths in Marion County remain at 9.

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Indiana

http://www.in.gov/isdh/files/Weekly_Influenza_Report_week_07_2012_2013.pdf

- Indiana continues to report widespread influenza. From 2/14-2/20/13, ISDH reports 2.74% ILI in ED surveillance and 2.58% from sentinel provider sites. Both of those measures are a decrease from the previous week.
- Two influenza deaths were reported for Week 7 bringing the total officially reported deaths to 58 (4 of those are pediatric deaths).
- Overall influenza-like illness is decreasing, however, there has been a shift in the circulating strain based on laboratory testing. Of the 17 positive influenza tests at ISDH state lab during week 7, 9 (53%) were confirmed influenza type B.

National

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

- During Week 7 (Feb 10-Feb 16, 2013), CDC reports that influenza geographic spread is decreasing. 22 states (including Indiana) are reporting widespread influenza activity by state and territorial epidemiologists (down from 31 last week). In addition, during week 7, 2.8% of patient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) were due to influenza-like illness (ILI). The average annual national baseline is 2.2%. This is a decrease from the 3.2% reported during week 6.
- The seasonal vaccine remains to be a good match to circulating virus. With 99.5% of H3N2 strains matching the vaccine component. The B vaccine component is less of a match (70.7%).
- The proportion of positive influenza B tests has been increasing over the past several weeks; 45% of influenza isolates were influenza type B.
- CDC reports 14 additional pediatric deaths in Week 6 bringing the season total to 78 confirmed influenza pediatric deaths. CDC does not report adult influenza deaths, however, the percent of all mortality associated with pneumonia and influenza is at 8.6%, still above the epidemic threshold of 7.5% for week 7 but showing a decreasing trend for several weeks.

Treatment/Prevention

- A new influenza vaccine, Flublok (Protein Sciences Corporation), has been approved by the FDA and is expected to be in the market for the 2013-14 flu season as a trivalent vaccine approved for 18-49 year olds. This vaccine is produced using viral protein expression and recombinant DNA technology. No chicken eggs or influenza viruses are needed and rapid scale-up of vaccine is possible (3 weeks to introduce new subtype protection).
<http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm335891.htm>
- Quadrivalent influenza vaccine is expected to be available next flu season. All FluMist will be quadrivalent and at least one manufacturer will be providing quadrivalent IM dosages. The enhanced vaccine will allow for increased type B protection.
<http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm294057.htm>
- The updated influenza vaccine effectiveness as reported by the CDC is 56% for all ages and subtypes. The vaccine is showing significant protection in all ages except adults 65 years and older. No significant protection is reported for the 65 and up age group. The preliminary study does not report on dosage (ie high dose versus normal dose).
http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6207a2.htm?s_cid=mm6207a2_w
- IVATS distributors and available vaccine products: http://preventinfluenza.org/ivats/ivats_12_13.pdf