



Indiana State Department of Health

Weekly Influenza Report

Week 11

Report Date: Thursday, March 24, 2016

The purpose of this report is to describe the spread and prevalence of influenza-like illness (ILI) in Indiana. It is meant to provide local health departments, hospital administrators, health professionals and residents with a general understanding of the burden of ILI. Data from several surveillance programs are analyzed to produce this report. Data are provisional and may change as additional information is received, reviewed and verified. For questions regarding the data presented in this report, please call the ISDH Surveillance and Investigation Division at 317-233-7125.

WEEKLY OVERVIEW

Influenza-like Illness - Week Ending March 19, 2016	
ILI Geographic Distribution	Widespread
ILI Activity Code	Low
Percent of ILI reported by sentinel outpatient providers	2.76%
Percent of ILI reported by emergency department chief complaints	2.57%
Percent positivity of influenza specimens tested at ISDH	86.27%
Number of influenza-associated deaths to date	34
Number of long-term care facility outbreaks	0
Number of school-wide outbreaks	0



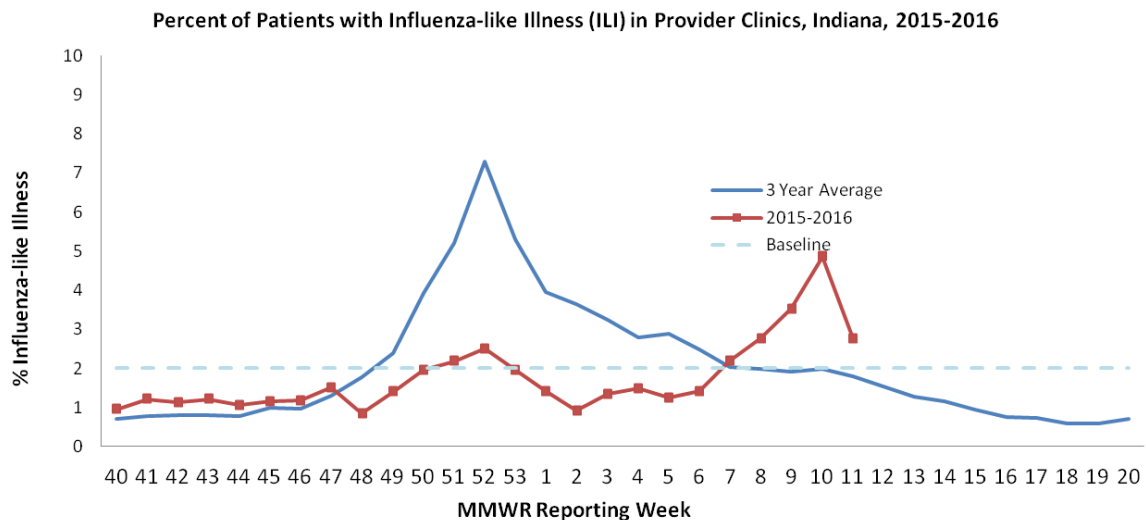
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SENTINEL SURVEILLANCE SYSTEM

Data are obtained from sentinel outpatient providers participating in the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet). Data are reported on a weekly basis for the previous Morbidity and Mortality Weekly Report (MMWR) Week by the sentinel sites and are subject to change as sites back-report or update previously submitted weekly data.

Percent of ILI Reported by Type of Sentinel Outpatient Facility, Indiana, 2015-2016 Season			
MMWR Week	All Reporters %ILI (n)	Universities %ILI (n)	Non-Universities %ILI (n)
11	2.76% (20)	1.96% (8)	3.06% (12)
10	4.86 (24)	2.40 (8)	5.34 (16)
9	3.52 (25)	1.86 (9)	4.29 (16)

Percent of ILI Reported by Age Category in Sentinel Outpatient Facilities, Indiana, 2015-2016 Season		
Age Category, years	Total Number of ILI	Percent of ILI
0-4	33	26.83%
5-24	55	44.72
25-49	21	17.07
50-64	7	5.69
65+	7	5.69
Total	123	--





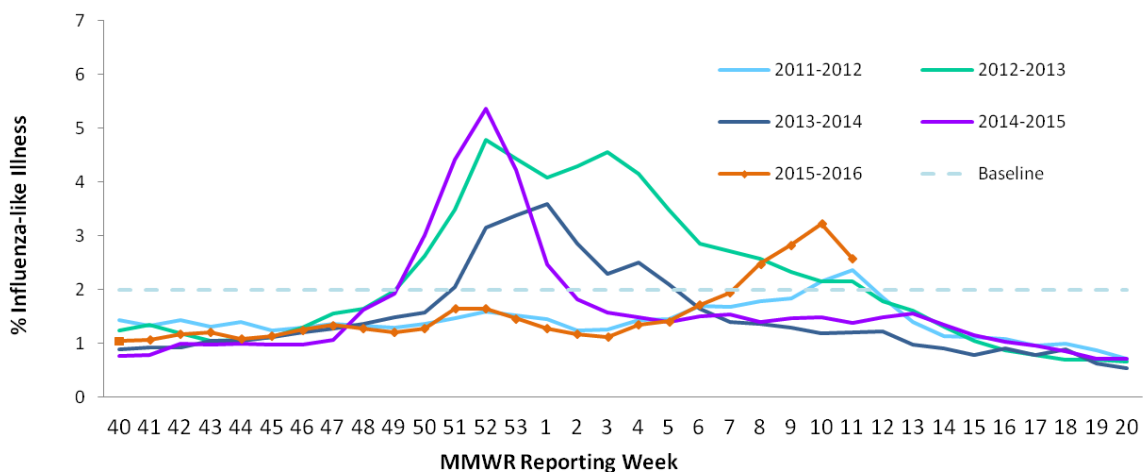
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SYNDROMIC SURVEILLANCE SYSTEM

Data are obtained from hospital emergency department chief complaint data through the Indiana Public Health Emergency Surveillance System (PHESS). Data are reported on a weekly basis for the previous Morbidity and Mortality Weekly Report (MMWR) Week and are subject to change as hospitals back-report or update previously submitted weekly data.

Percent of ILI Reported in Emergency Departments by District, Indiana, 2015-2016 Season		
	Previous MMWR Week	Current MMWR Week
Indiana	3.23%	2.57%
District 1	2.38	1.66
District 2	3.16	2.16
District 3	1.72	1.45
District 4	2.38	2.52
District 5	3.72	3.04
District 6	4.64	3.74
District 7	3.52	2.27
District 8	3.90	3.07
District 9	4.12	3.59
District 10	2.41	1.94

Percent of Patients with Influenza-Like Illness (ILI) Chief Complaint in Emergency Departments, Indiana, 2015-2016





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INFLUENZA-ASSOCIATED MORTALITY

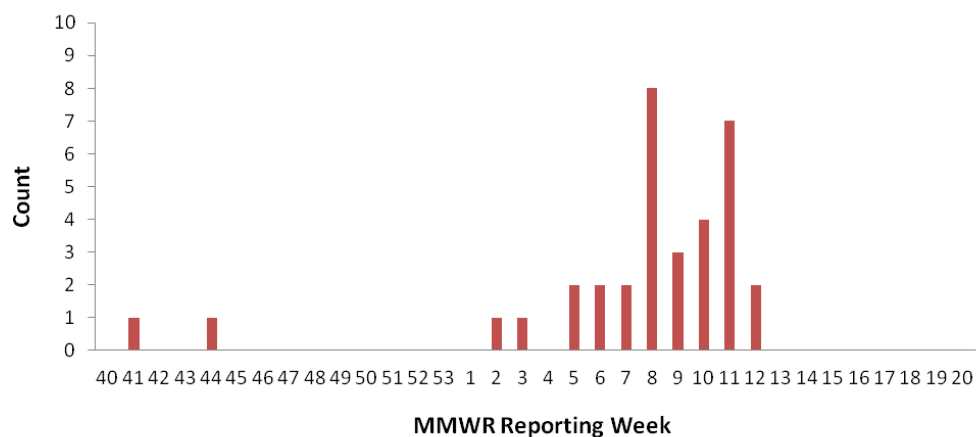
Data are obtained from the Indiana National Electronic Disease Surveillance System (I-NEDSS). Influenza-associated deaths are reportable within 72 hours of knowledge; however, not all cases are reported in a timely manner so data in this report as subject to change as additional cases are back-reported.

Number of Influenza-Associated Deaths for All Ages*, Indiana, 2015-2016 Season	
Age Category, years	Season Total
0-4	0
5-24	4
25-49	5
50-64	15
65+	10
Total	34

**Due to changes in the reporting rule as of 12/2015, influenza-associated deaths are reportable if either laboratory confirmed or listed as cause of death on death certificate. Therefore, case counts are not directly comparable to previous seasons in which influenza-associated deaths were only reportable by laboratory confirmation.*

Counties with ≥5 Laboratory Confirmed Influenza-Associated Deaths for All Ages, 2015-2016 Season			
County	Season Total	County	Season Total
Lake	6		
Marion	9		

Number of Reported Influenza-Associated Deaths by Week of Death, All Ages,
Indiana, 2015-16





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VIROLOGIC SURVEILLANCE

Circulating Influenza Viruses Detected by ISDH Laboratory*, Indiana, 2015-2016 Season				
PCR Result	Week 11		Season Total	
	Number	Percent of Specimens Received	Number	Percent of Specimens Received
2009 A/H1N1pdm virus	32	62.7%	196	36.8%
Influenza A/H3 seasonal virus	6	11.8%	67	12.6%
Influenza A/H1 seasonal virus	0	0%	0	0%
Influenza B seasonal virus	6	11.8%	32	6.0%
Influenza negative	7	13.7%	220	41.3%
Inconclusive	0	0%	6	1.1%
Unsatisfactory specimen [†]	0	0%	11	2.1%
Influenza Co-infection ^Δ	0	0%	1	<1%
Total	51	100%	533	100%

* Data obtained from the ISDH Laboratory via specimens submitted from the ISDH Sentinel Influenza Surveillance System and IN Sentinel Laboratories.

[†] Unsatisfactory specimens include specimens that leaked in transit, were too long in transit, or were inappropriately labeled.

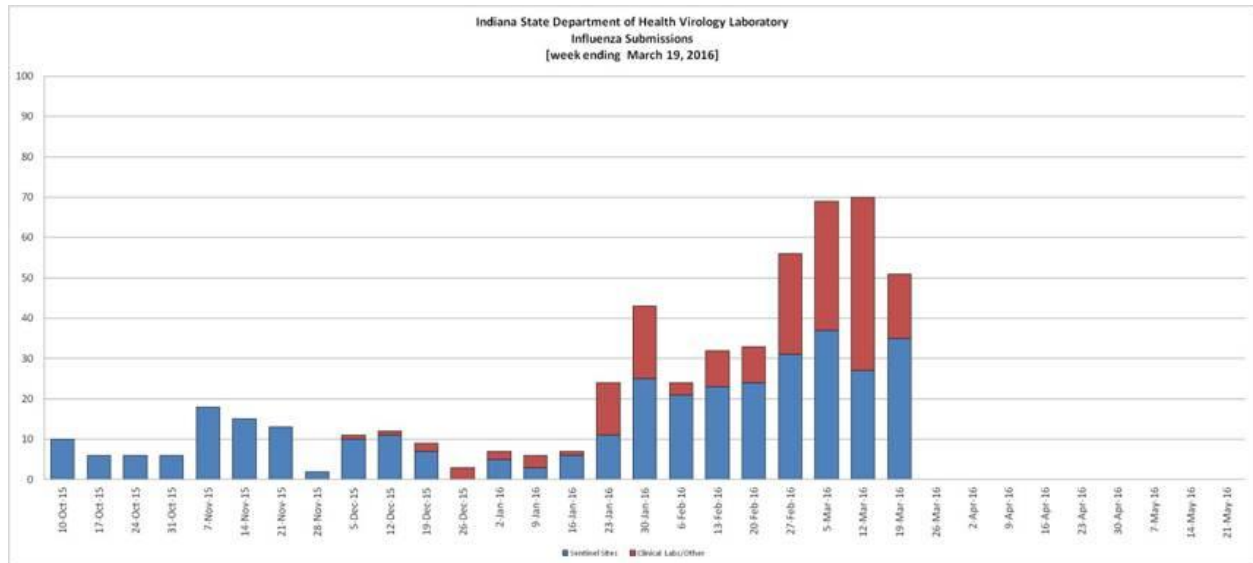
^Δ Influenza co-infection was influenza A/H3 and influenza A/ H1N1pdm.

Circulating Non-Influenza Viruses Detected by the ISDH Laboratory, Indiana, 2015-2016 Season			
Result	Week 11	Season Total (Since 10/1/15)	Early Surveillance (9/1/15 - 9/30/15)
Adenovirus	0	6	0
Coronavirus 229E	0	0	0
Coronavirus HKU1	0	0	0
Coronavirus NL63	0	0	0
Coronavirus OC43	0	0	0
Enterovirus NOS	0	0	0
Enterovirus/Rhinovirus	0	2	1
Human Metapneumovirus	0	0	0
Parainfluenza 1 Virus	0	1	1
Parainfluenza 2 Virus	0	1	0
Parainfluenza 3 Virus	0	1	0
Parainfluenza 4 Virus	0	1	0
Rhinovirus	0	0	0
Respiratory Syncytial Virus	0	1	0
Total	0	13	2



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VIROLOGIC SURVEILLANCE (GRAPH)





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FLU REVIEW

Flu Vaccine Resources

- The [Immunization Action Coalition](#) has updated its guides to contraindications and precautions to vaccines; guides are available for [all age groups](#) as well as [adults](#) specifically. [Screening checklists for contraindications to vaccines](#) are also accessible for both children/teens and adults, including translations.
- The CDC offers many [influenza resources for health professionals](#), including detailed clinician summaries addressing [vaccination](#) and treatment with [antiviral medications](#).

Flu News and Related Studies

- Influenza activity in the United States has now been elevated above baseline for nine consecutive weeks, and activity is likely to continue for several more weeks. The majority of recently circulating influenza viruses are susceptible to the neuraminidase inhibitor (NI) antiviral medications, oseltamivir, zanamivir, and peramivir; however, rare instances of influenza A (H1N1)pdm09 viruses have been reported to be resistant to oseltamivir and peramivir when tested by the CDC. Forty states (including Indiana) have reported widespread flu activity, with ten states reporting regional flu activity. View the [map](#) of weekly influenza activity in the U.S. and the latest [FluView report](#) for more about current influenza activity, trends, and impact throughout the United States (CDC).
- A cohort study of Kaiser Permanente Southern California members compared surgical inpatients who received influenza vaccine during a surgical hospitalization and those who did not; the analysis found no significant increase in risk of adverse outcomes among patients receiving influenza vaccine, supporting the recommendation to vaccinate surgical inpatients against influenza ([Annals of Internal Medicine](#)).

For Further Information, Visit:

www.in.gov/isdh/25462.htm

www.cdc.gov/flu

www.flu.gov