



Indiana State Department of Health

Weekly Influenza Report

Week 2

Report Date: Friday, January 22, 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 January 16, 2015	
ILI Geographic Distribution	Local
ILI Activity Code	Minimal
Percent of ILI reported by sentinel outpatient providers	0.56%
Percent of ILI reported by emergency department chief complaints	1.19%
Percent positivity of influenza specimens tested at ISDH	28.60%
Number of influenza-associated deaths	1
Number of long-term care facility outbreaks	0
Number of school-wide outbreaks	0



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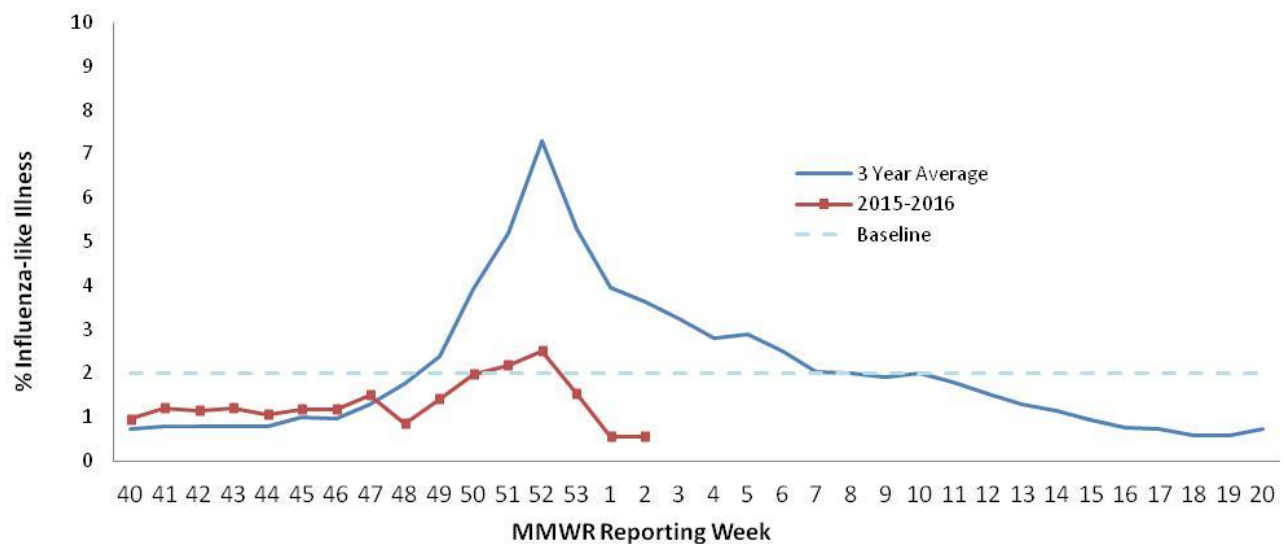
SENTINEL SURVEILLANCE SYSTEM

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)
2	0.56% (22)	0.60% (8)	0.54% (14)
1	0.55% (25)	0.22% (9)	0.60% (16)
52	2.51% (24)	Data Not Available	2.51% (15)

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	6	24.00%
5-24	15	62.50%
25-49	3	12.00%
50-64	0	0.00%
65+	1	4.00%
Total	25	--

Percent of Patients with Influenza-like Illness (ILI) in Provider Clinics, Indiana, 2015-2016





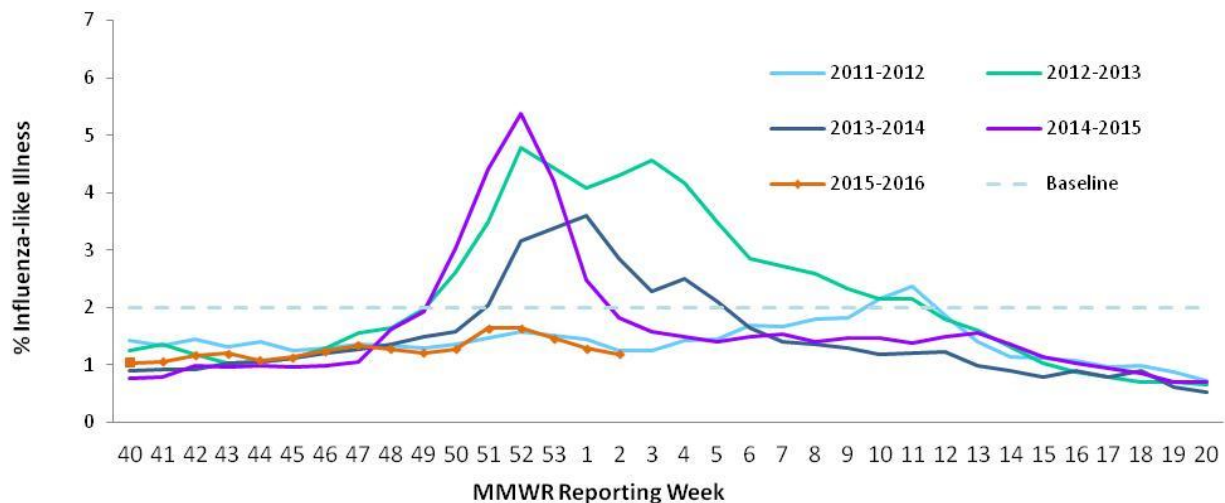
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SYNDROMIC SURVEILLANCE SYSTEM

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	1.29%	1.19%
District 1	1.49	1.33
District 2	1.04	1.27
District 3	0.60	0.48
District 4	1.87	1.75
District 5	1.24	0.98
District 6	1.78	1.30
District 7	1.19	1.04
District 8	0.96	1.32
District 9	2.04	2.02
District 10	0.98	1.18

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





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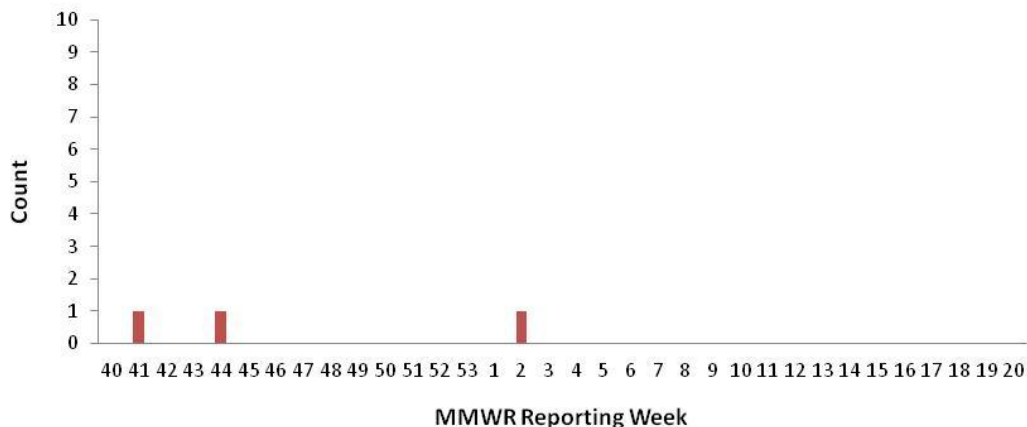
INFLUENZA-ASSOCIATED MORTALITY

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 Laboratory Confirmed Influenza-Associated Deaths for All Ages, Indiana, 2015-2016 Season	
Age Category, years	Season Total
0-4	0
5-24	0
25-49	0
50-64	1
65+	2
Total	3

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

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 2		Season Total	
	Number	Percent of Specimens Received	Number	Percent of Specimens Received
2009 A/H1N1pdm virus	0	0%	5	3.8%
Influenza A/H3 seasonal virus	2	28.6%	4	3.1%
Influenza A/H1 seasonal virus	0	0%	0	0%
Influenza B seasonal virus	0	0%	3	2.3%
Influenza negative	5	71.4%	112	85.5%
Inconclusive	0	0%	0	0%
Unsatisfactory specimen†	0	0%	7	5.3%
Influenza Co-infection ^Δ	0	0%	0	0%
Total	7	100%	131	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 All previous-year co-infections have been influenza A/H3 and influenza B.

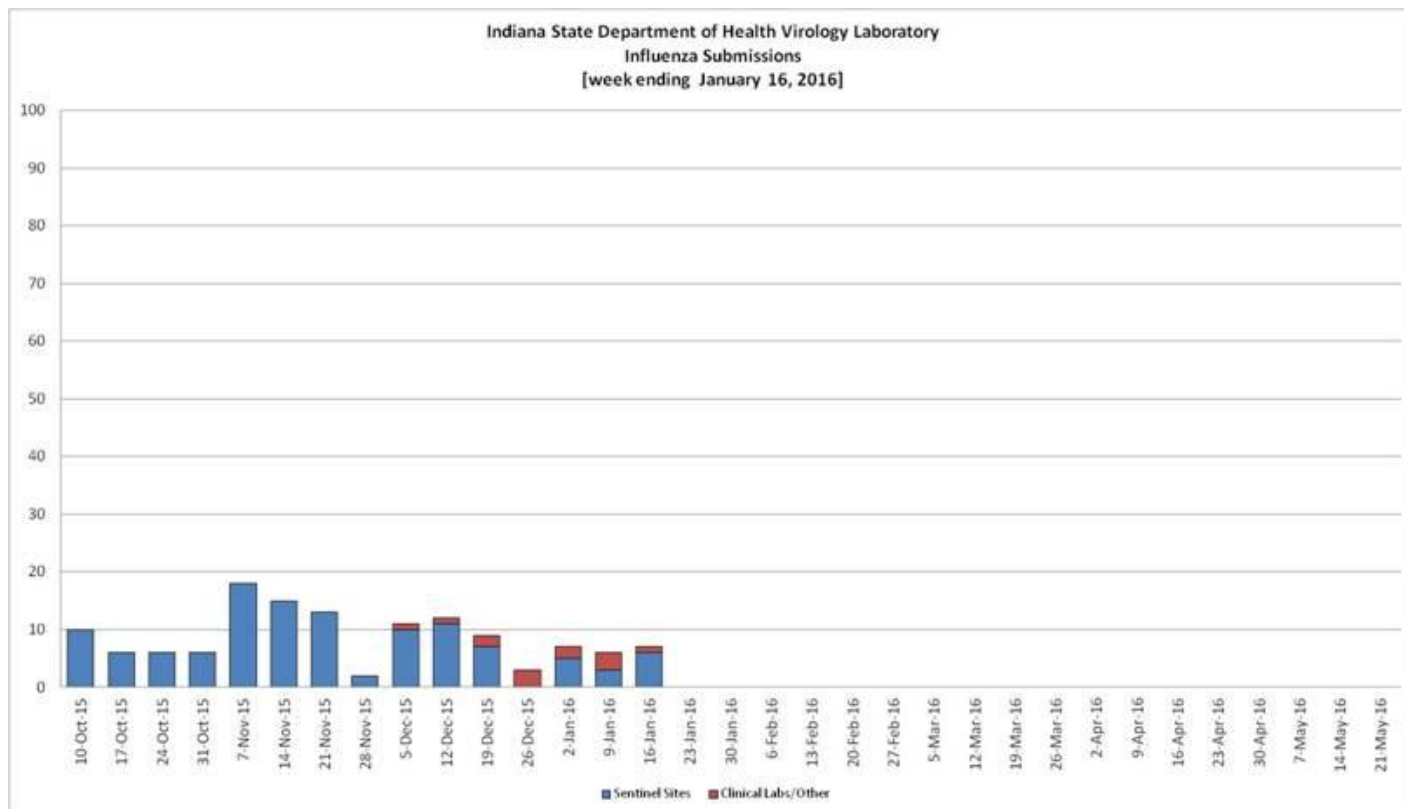
Circulating Non-Influenza Viruses Detected by the ISDH Laboratory, Indiana, 2015-2016 Season			
Result	Week 2	Season Total (Since 10/1/15)	Early Surveillance (9/1/15 - 9/30/15)
Adenovirus	1	4	0
Coronavirus 229E	0	0	0
Coronavirus HKU1	0	0	0
Coronavirus NL63	0	0	0
Coronavirus OC43	0	0	0
Enterovirus NOS	0	0	0
Enterovirus/Rhinovirus¹	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	0	0
Total	1	10	2

¹Some specimens were tested outside of ISDH Laboratory



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VIROLOGIC SURVEILLANCE (GRAPH)





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FLU REVIEW

Flu Vaccine Resources

- The American Academy of Pediatrics (AAP) has posted a Red Book alert entitled [“What’s the Latest with the Flu?”](#) reviewing the 2015–16 influenza season and highlighting important notes for healthcare providers.
- Trust for America’s Health and the Robert Wood Johnson Foundation have released the 2015 edition of the annual report [Outbreaks: Protecting Americans from Infectious Diseases](#). The report includes information concerning the health and financial burdens influenza represents, as well as national and state vaccination rates.
- The CDC has [launched](#) a new website called [FluSight: Seasonal Influenza Forecasting](#), to provide forecasts of influenza activity made by external research groups, as a result of an effort by the Epidemic Prediction Initiative to advance the science of forecasting infectious diseases, including influenza. Eight external research groups are currently participating for the 2015-16 flu season.

Flu News and Related Studies

- Influenza activity in the United States is low overall, and the reported influenza rates have fallen below the national baseline. Influenza activity is likely to increase again in the coming weeks. Nine states and two territories reported regional levels of activity, and eleven states, including Indiana, reported local influenza 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).
- On January 15, 2016, the USDA’s Animal and Plant Health Inspection Service (APHIS) reported detection of highly pathogenic avian influenza (HPAI) H7N8 virus in a commercial turkey flock in Dubois County, Indiana. Additionally, the presence of low pathogenic avian influenza (LPAI) H7N8 has been confirmed among 8 nearby turkey flocks. The risk to the general public from these H7 viruses is considered to be low; however, people with exposure to infected birds or contaminated environments should exercise caution. For more on this situation, view the [CDC update](#) and the [ISDH avian influenza H7N8](#) page.
- A new influenza severity index has been proposed by researchers that suggest basing severity measures on influenza age dynamics; by utilizing routine physician diagnosis data rather than multiple data sources as with traditional case-fatality and case-hospitalization rates, influenza outbreaks could be detected more quickly and with less surveillance bias ([BMC Infectious Diseases](#)).

For Further Information, Visit:

www.in.gov/isdh/25462.htm

www.cdc.gov/flu

www.flu.gov