

Kane County 2015-16 Influenza Surveillance Summary

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Kane County, Illinois Influenza-Like Illness Surveillance 2015-2016

Each year between October and April, the Kane County Health Department collects and tracks data regarding influenza activity in the county by monitoring:

- Visits to emergency departments for influenza-like illness (ILI)¹
- Hospital laboratory testing for influenza
- ILI-associated absenteeism in public school (grades K-12)
- Influenza-associated pediatric deaths
- Influenza-related ICU admissions and ICU deaths
- Reports of influenza outbreaks in long-term care facilities

The Kane County Health Department would like to thank the hospitals, labs and school districts that participated in the ILI surveillance for 2015-2016 and made this monitoring possible. Below are the summaries for October 2015-April 2016 regarding the percentage of ER patients seen with ILI, the average ILI absenteeism in Kane County public schools, influenza outbreaks in long-term care facilities, influenza laboratory testing activity, ICU admissions and pediatric deaths related to influenza.

Summary

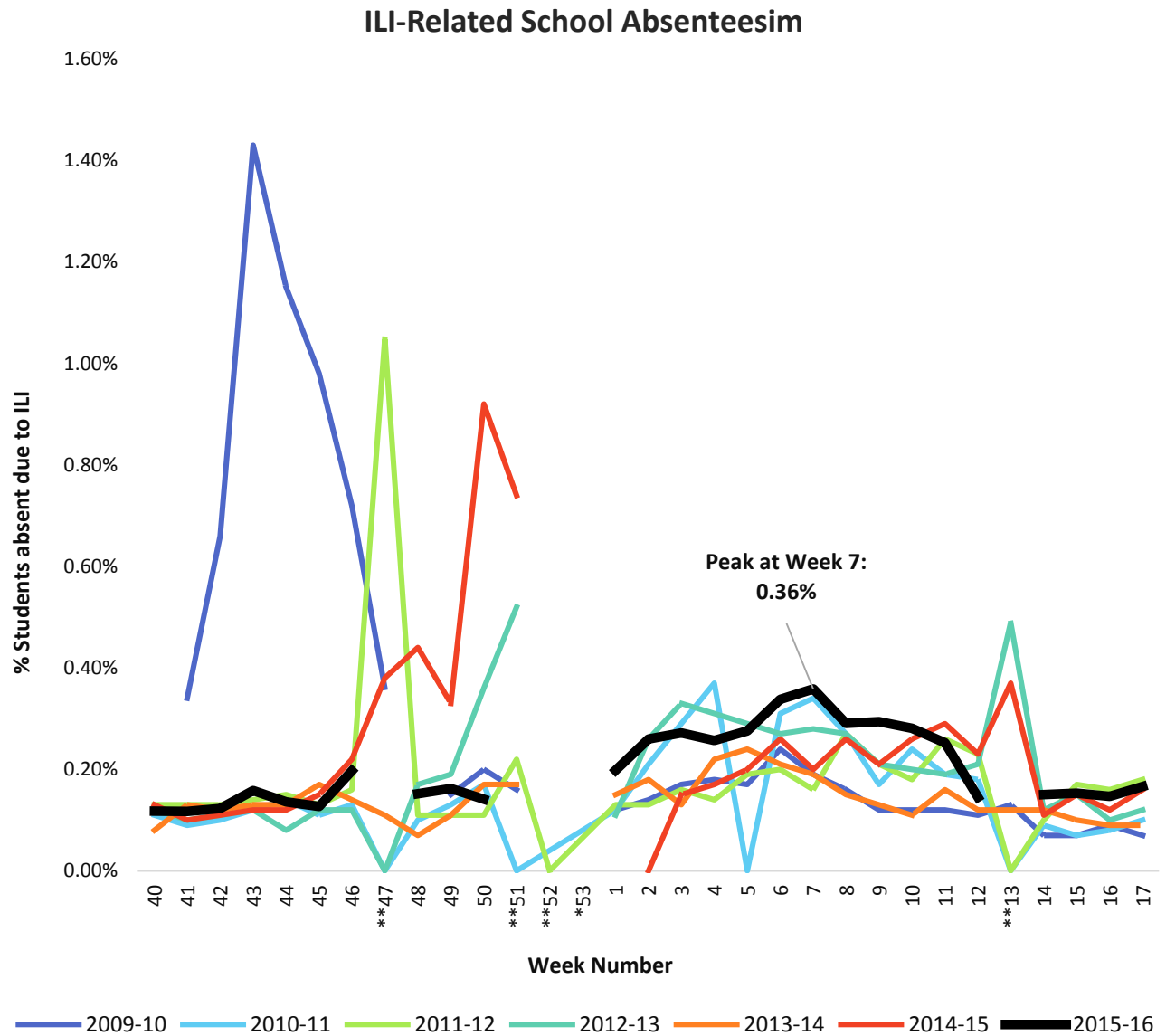
Kane County Health Department conducted surveillance for influenza-like illness for the 2015-16 season beginning in October 2015 through the end of April 2016. Influenza activity in Kane County during the 2015-16 season peaked in week 8 (February 21-27, 2016), as compared to the national level which peaked two weeks later. The predominant strain during this peak was Influenza A.

There was one influenza outbreak in long-term care facilities and 20 ICU admissions for ILI during the 2015-16 influenza season.

¹Influenza-like illness (ILI) is defined as fever >100°F with cough and/or sore throat without other known cause

School Influenza-Like Illness Surveillance

The data represent public schools that reported ILI-related absenteeism during the 2015-16 school year. The county average absenteeism for ILI among school-aged children was 0.20%, with a peak of 0.36% in week 7 (Feb. 14-20).

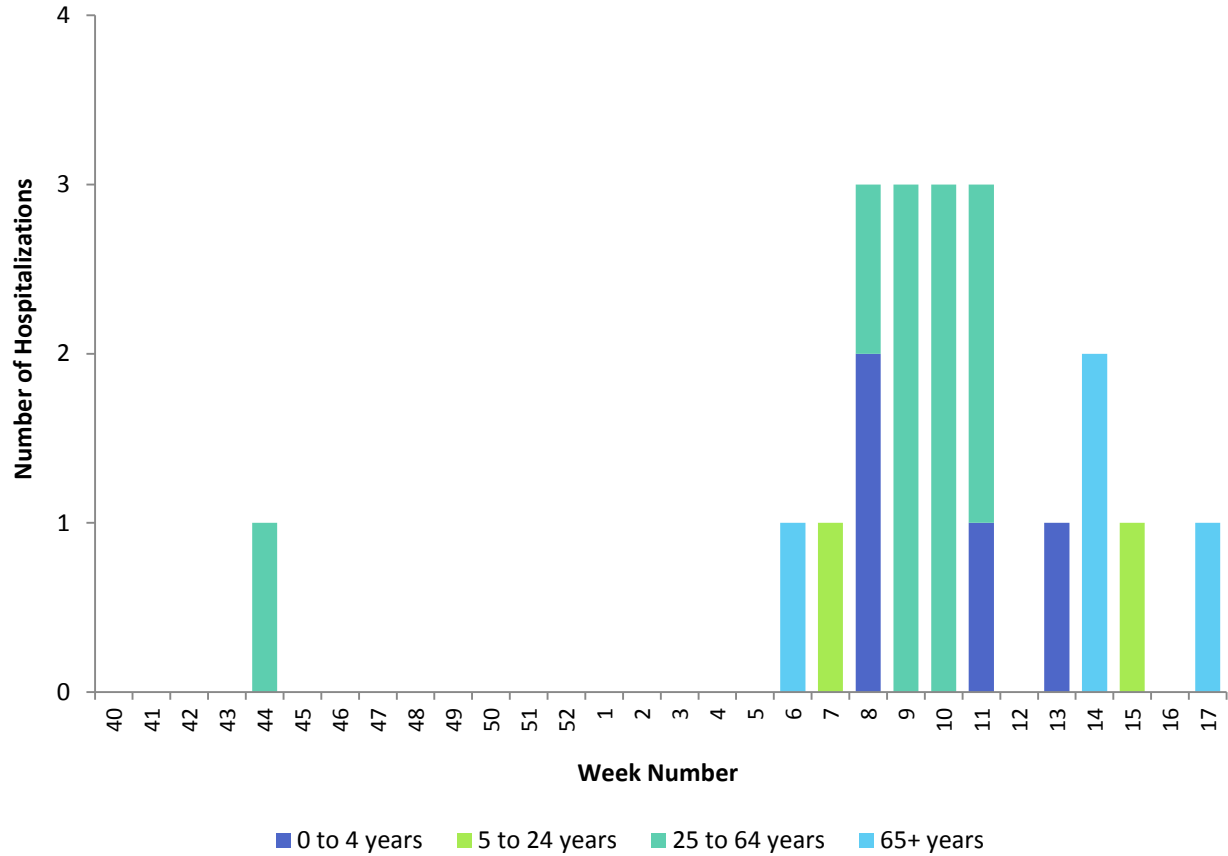


*2014 is the only year with 53 weeks
 **Schools closed for holiday

Influenza-related ICU Admissions and Deaths

There were a total of 20 ILI-related ICU admissions reported to the Health Department during the 2015-16 influenza season. The number of admissions peaked between weeks 7 and 10 (Feb. 14-March 12). The average age at admission was 42.9 years, with a range of 0-85 years. There were 4 pediatric (under age 5) ICU admissions and no pediatric deaths related to ILI.

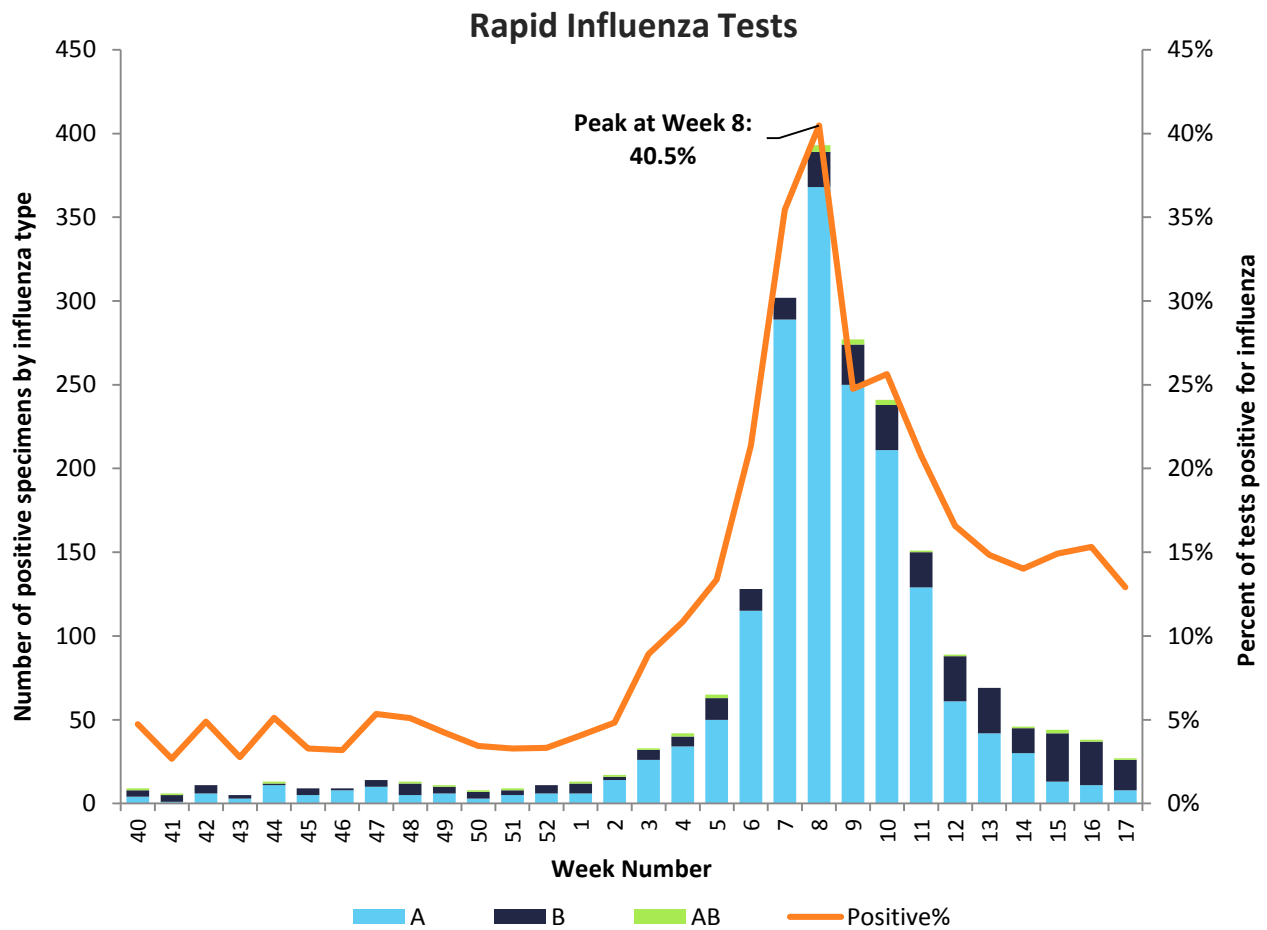
Influenza ICU Hospitalizations by Age Group



ICU Admissions Case Count		#	%
Total Cases		20	-
Total Deaths		3	15.0%
Cases by Age Group		#	%
0-4		4	20.0%
5-24		2	10.0%
25-64		10	50.0%
65+		4	20.0%

Laboratory Surveillance

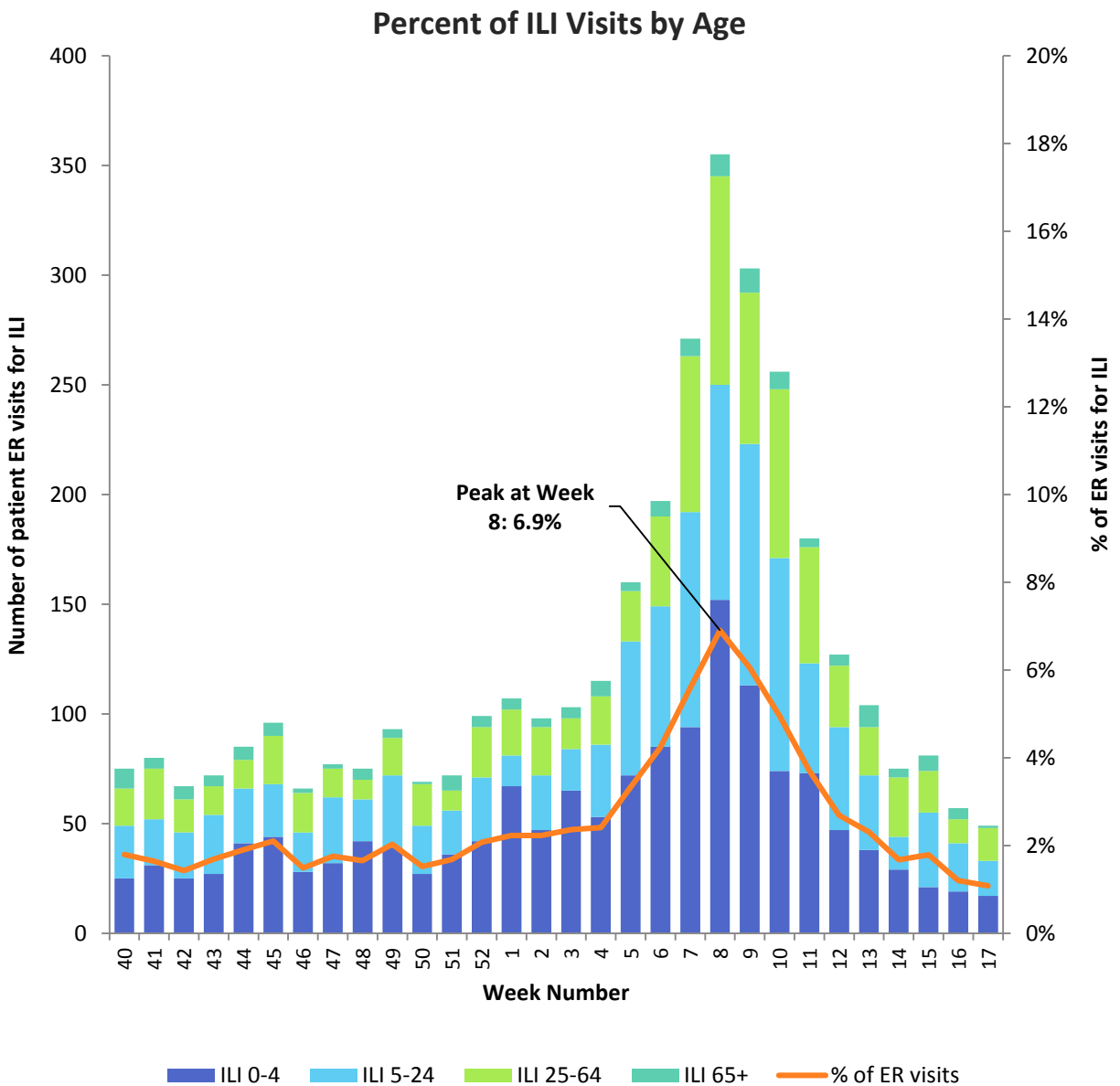
Each week, six laboratories in Kane County reported data on rapid influenza testing done in their facilities during the influenza season. Overall, 16.9% of tested respiratory specimens were positive for influenza (2,103 out of 12,452). The number of positive tests peaked in week 8, when 393 specimens tested positive for influenza, producing a peak positivity rate of 40.5%. The flu season was predominately Influenza A, until weeks 15-17 (April 10-16), when more tests were positive for Influenza B. Throughout surveillance, 82.3% of all positive tests were Influenza A, 16.3% were Influenza B, and 1.5% were Influenza AB.



Laboratory Influenza Type Results	Number	Percent
Specimens tested	12,452	-
Specimens positive	2,103	16.9%
Positive specimens by type		
Influenza A	1,730	82.3%
Influenza B	342	16.3%
Influenza AB	31	1.5%

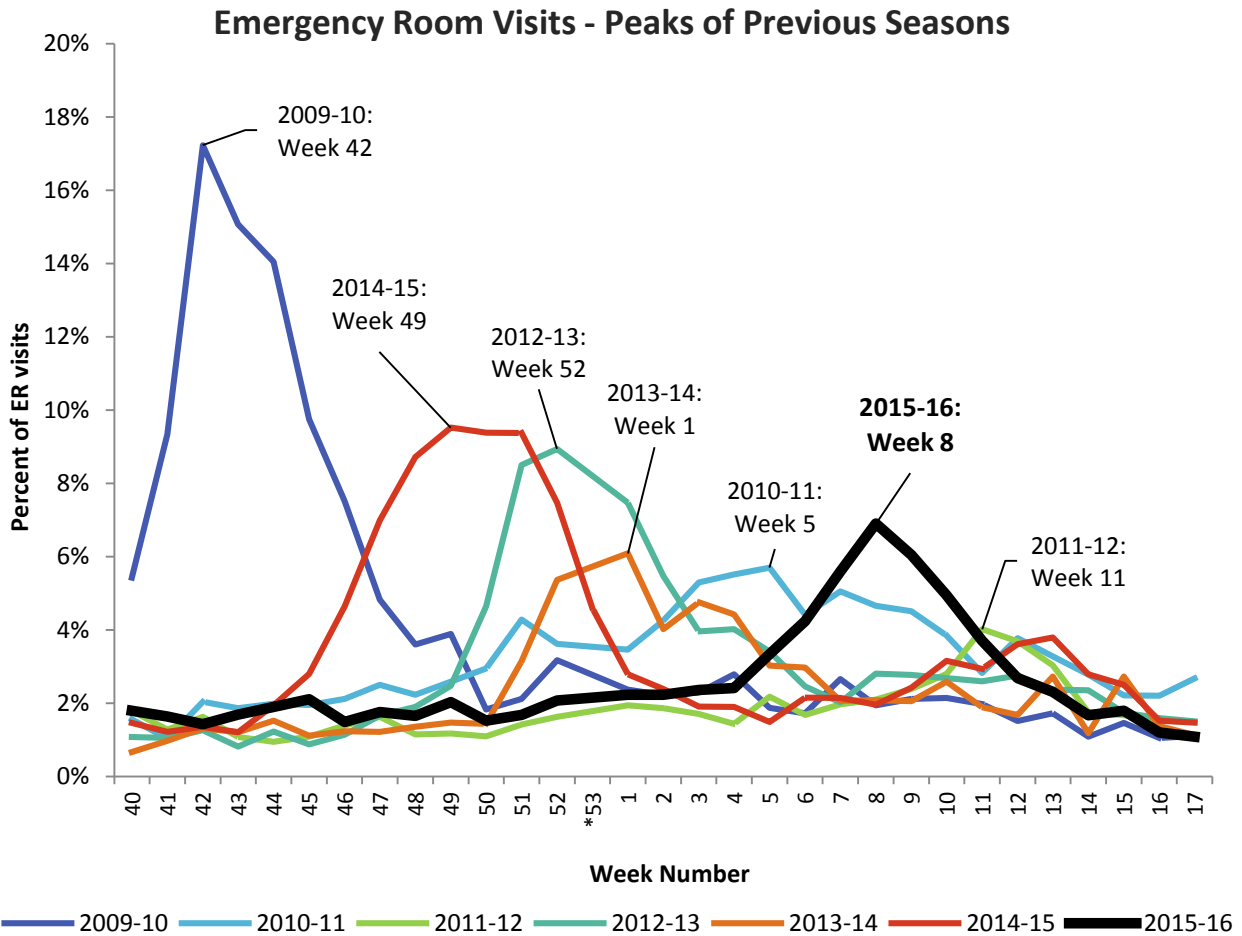
ILI Emergency Room Surveillance

The percent of ER visits that were ILI-related peaked in week 8 (Feb. 21-27) at 6.9%. During this peak, 42.8% of ILI-related ER visits were among people aged 0-4, 27.6% were among people aged 5-24, 26.8% were among people aged 25-64, and 2.8% were among people aged 65 and older. The percent of ER visits that were ILI-related remained above 5.0% until week 10, when it decreased to 4.9%. Overall, ILI-related visits accounted for an average 2.6% of all ER visits. During the 2014-15 influenza surveillance season ILI-related visits peaked, at 9.5%, nearly 2 months earlier, in week 49 (Nov. 30-Dec. 6).



ILI Data for the past seven influenza season

The below chart shows that the 2015-16 influenza season had a much later peak in ILI-related ER visits compared to most of the previous influenza seasons.



*2014 is the only year with 53 weeks

Long-term Care Facilities (LTCF) Influenza Outbreaks

During the 2015-16 influenza surveillance season, one influenza outbreaks was reported in long-term care facilities in Kane County.

Special thanks to the Kane County Health Department Communicable Disease and Community Health Resources programs for compiling the information and data in this report. Thanks to our reporters at the school, hospitals, long-term care facilities, and laboratories who contributed data each week.

Resources:

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[Kane County Health Department Flu Page](#)

[CDC Influenza/Flu Main Page](#)

[IDPH Influenza/Flu Main Page](#)

[Flu.gov](#)

Northern Illinois Public Health Consortium Flu Resources for Health Communicators

Epidemiological Weeks of 2015-16 Influenza Season		
Week Numbers	Start Date (Sunday)	End Date (Saturday)
40	4-Oct-15	10-Oct-15
41	11-Oct-15	17-Oct-15
42	18-Oct-15	24-Oct-15
43	25-Oct-15	31-Oct-15
44	1-Nov-15	7-Nov-15
45	8-Nov-15	14-Nov-15
46	15-Nov-15	21-Nov-15
47	22-Nov-15	28-Nov-15
48	29-Nov-15	5-Dec-15
49	6-Dec-15	12-Dec-15
50	13-Dec-15	19-Dec-15
51	20-Dec-15	26-Dec-15
52	27-Dec-15	2-Jan-16
1	3-Jan-16	9-Jan-16
2	10-Jan-16	16-Jan-16
3	17-Jan-16	23-Jan-16
4	24-Jan-16	30-Jan-16
5	31-Jan-16	6-Feb-16
6	7-Feb-16	13-Feb-16
7	14-Feb-16	20-Feb-16
8	21-Feb-16	27-Feb-16
9	28-Feb-16	5-Mar-16
10	6-Mar-16	12-Mar-16
11	13-Mar-16	19-Mar-16
12	20-Mar-16	26-Mar-16
13	27-Mar-16	2-Apr-16
14	3-Apr-16	9-Apr-16
15	10-Apr-16	16-Apr-16
16	17-Apr-16	23-Apr-16
17	24-Apr-16	30-Apr-16