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What is Influenza?

The Centers for Disease Control and Prevention (CDC) defines influenza (flu) as a contagious respiratory illness caused by influenza viruses. It can cause mild to severe illness. Serious outcomes of flu infection can result in hospitalization or death. Some people, such as older people, young children, and people with certain health conditions, are at high risk for serious flu complications. The best way to prevent the flu is by getting vaccinated against the flu, each year.

For questions regarding influenza and what is reportable to the Lake County Health Department, contact the Communicable Disease (CD) Program at (847) 377-8130

Weekly Summary

Geographic Area	Flu/Influenza-Like Illness (ILI) Activity
Lake County	<ul style="list-style-type: none"> Increase in visits for Upper Respiratory Illness/Influenza-like-illness (ILI) by 14%, when compared to two weeks ago. Previous week was a shortened holiday week. Lake County Schools: Baseline levels after holiday.
Cook County	Flu/ILI Activity is currently: LOW (Week 47).
Wisconsin (Southeast Region)	Flu/ILI Activity is currently: LOW (Week 47).
Illinois	Flu/ILI Activity is currently: LOW (Week 47).
United States	Flu/ILI Activity is currently: LOW (Week 47).

Note: Our report contains different flu weeks for some geographic areas due to different reporting dates of sources.

The 2016-17 U.S. Three component (Trivalent) influenza vaccine contains: A/California/7/2009 (H1N1) pdm09-like virus, A/ Hong Kong/4801/2014 (H3N2)-like virus, and a B/Brisbane/60/2008-like virus (B/Victoria lineage).

The 4 component (Quadrivalent) influenza vaccine will also include a B/Phuket/3073/2013- like virus (B/Yamagata lineage) for this year's flu season.

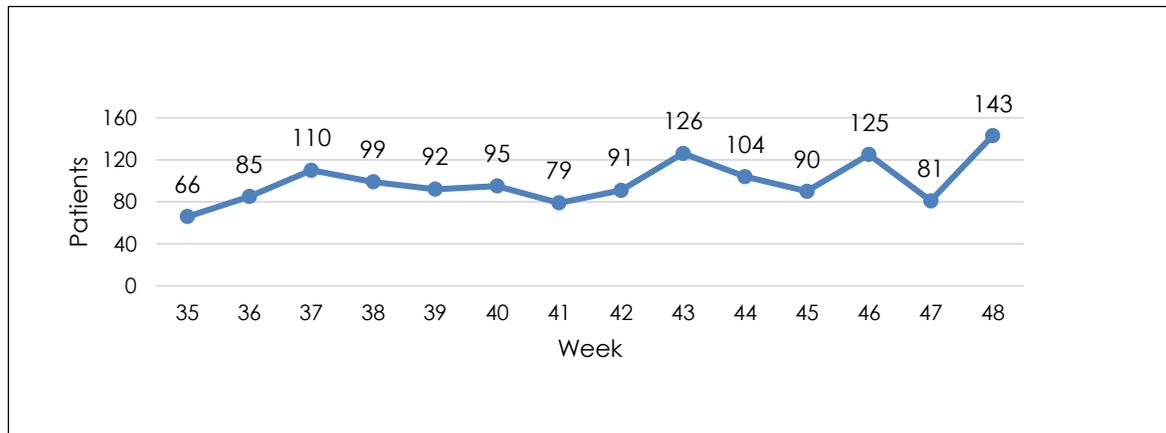
The Centers for Disease Control and Surveillance (CDC) have classified flu/Influenza-Like-Illness (ILI) activity levels as minimal (levels 1-3), **low (levels 4-5)**, **moderate (levels 6-7)**, and **high (levels 8-10)**. This classification helps in summarizing weekly flu/ILI surveillance information for a particular geographic area and making flu/ILI activity easy to understand for the general public.

County Data

LCHD/CHC (Federally Qualified Health Center): Week 48 (27 Nov – 03 Dec 16)

Visits to the Lake County Health Departments - Community Health Center clinics (LCHD/CHC) for both upper respiratory infections (URI) and/or influenza-like-illness (ILI), increased by 14% when compared to two weeks ago. Last week (week 47) does not reflect an accurate comparison, due to it being a shortened holiday week.

of Patients with URI and ILI by Week



Source: Lake County Health Department Electronic Health Records, 2016.

Reportable to the Lake County Health Department: Week 48 (27 Nov – 03 Dec 16)

Quick Stats	Week 48	Prior Week	Cumulative*
Flu - Intensive care unit (ICU) admissions	0	0	0
Flu - Pediatric Deaths (0-18)	0	0	0
Flu - Outbreaks reported (Congregate settings) **	0	0	0

Source: Illinois' National Electronic Disease Surveillance System (I-NEDSS)

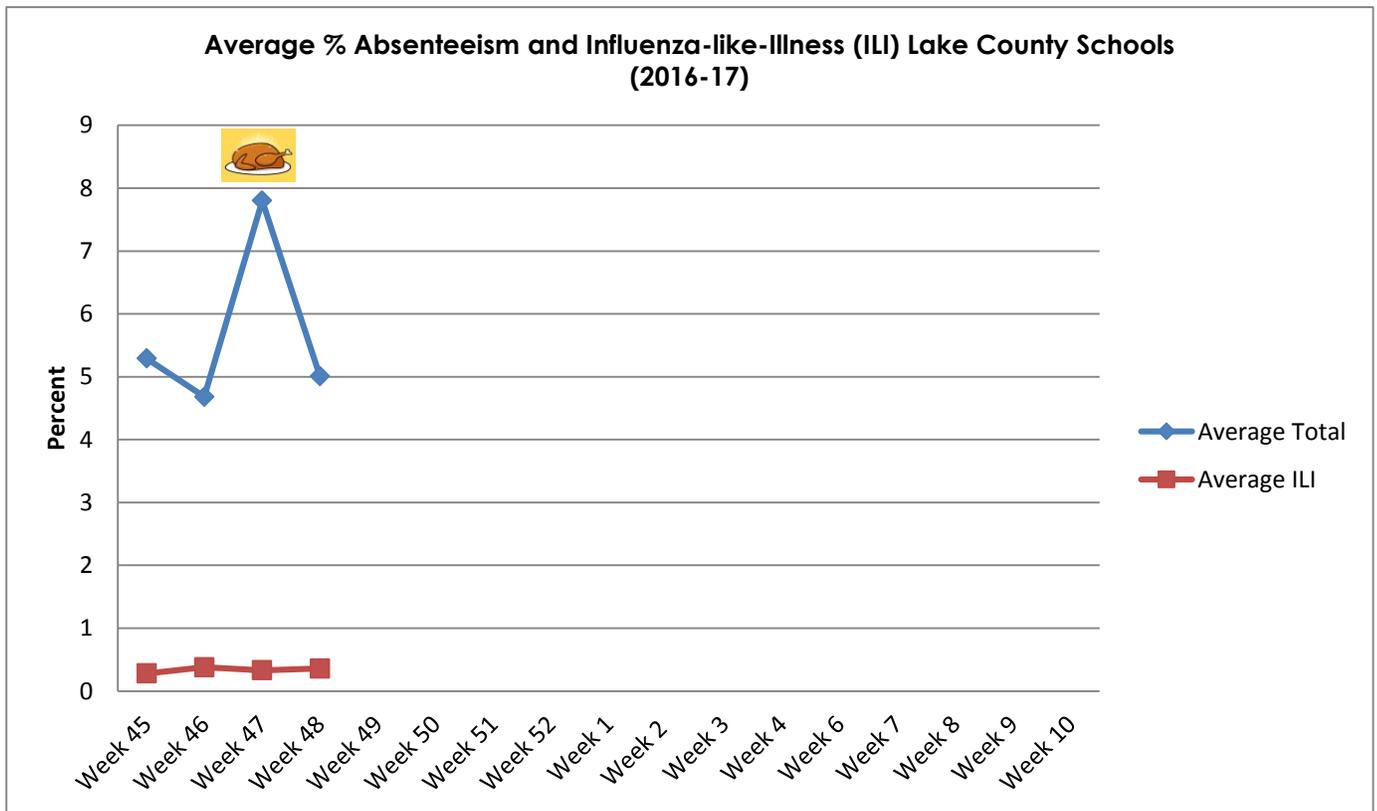
*Cumulative since week 35. Single positive flu tests are not reportable in Illinois.

**Correctional, Long Term Care (LTC) Facilities and Hospitals.

School Influenza-Like Activity Surveillance: Week 48 (27 Nov – 03 Dec 16)

Reporting School Districts: Antioch (34), Barrington (220), Libertyville (70), Northshore (112), Waukegan (60) and Zion (6).

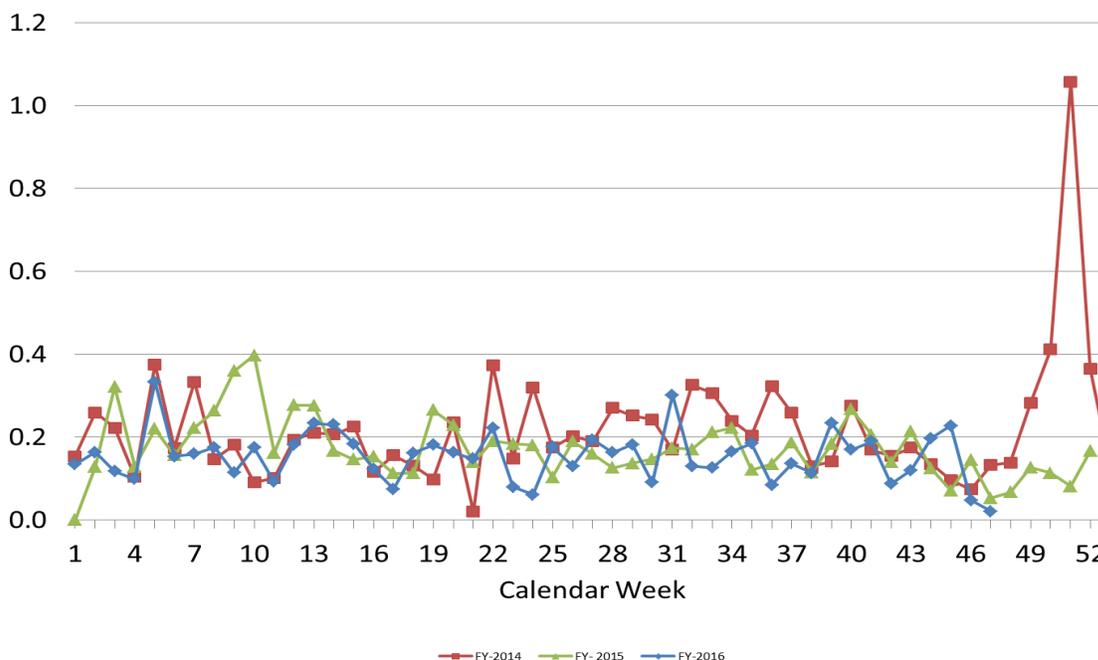
Quick Stats	Current Week	Previous Week
Schools tracking and reporting absenteeism data	54	31
Schools reporting ILI absenteeism ($\geq 5\%$)	1	0
Schools/Pre-schools reporting general absenteeism ($\geq 10\%$)	15	15



Source: Lake County Schools 2016-2017

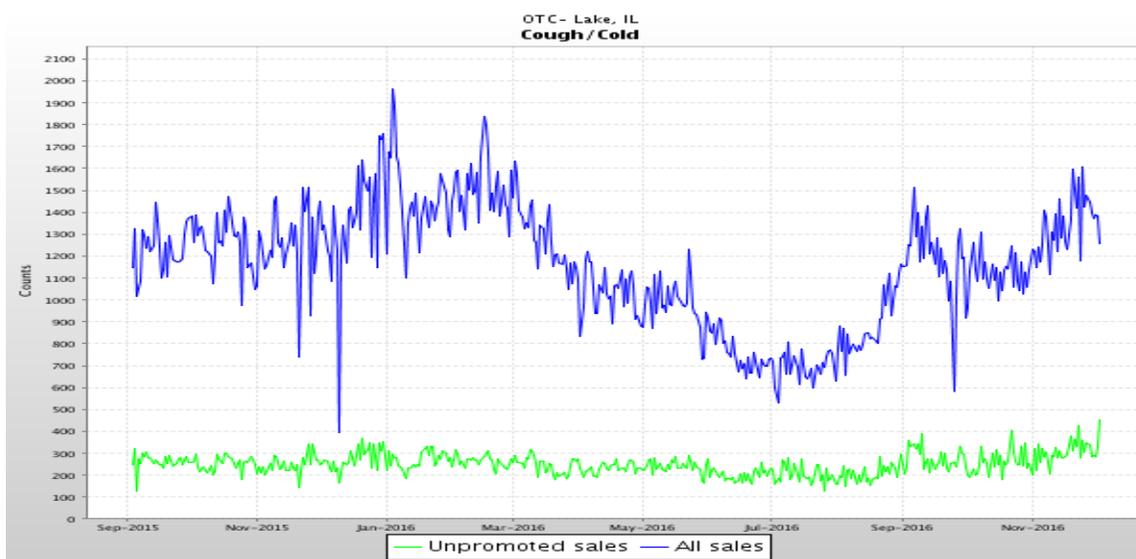
General Sentinel Site: Week 47 (20 – 26 Nov 16)

Febrile Respiratory Illness Rate (per 100 Doctor Visits)



Sentinel Pharmacies: Past 15 Months (04 Sep 15 – 03 Dec 16)

There are 70 pharmacies in Lake County who report the amount of over-the-counter (OTC) cough and cold medications they sell for Upper Respiratory Infections. This report includes “All Sales” which refers to all cough and cold medicines that were sold in total, and “Un-promoted Sales”, which are cough and cold medicines not promoted but sold.



Source: Real Time Outbreak and Disease Surveillance (RODS), 2016-2017.

State Data

Illinois: Week 47 (20 – 26 Nov 16)

Current Week Quick Stats		
Illinois Influenza Geographical Spread	Sporadic (see flu activity chart below for definition)	
Percent of outpatient visits for ILI	1.38% (baseline 1.90%)	
Percent/Number of Influenza Positive Tests	Current Week: 1.5%	Season: 0.5%
Influenza-Associated ICU Admissions	Current Week: 1	Season: 18
Influenza Outbreaks	Current Week: 0	Season: 2
Influenza Associated Pediatric Deaths (<u>Season Total</u>)	0	

Source: Illinois Department of Public Health, Influenza Surveillance, 2016.**Illinois Department of Public Health (IDPH) Flu Activity Rating by Geographical Spread**

No Activity	No laboratory confirmed cases of influenza.
Sporadic Activity	Isolated lab-confirmed cases <u>OR</u> lab confirmed outbreak in one institution.
Local Activity	Recent (within the past 3 weeks) lab evidence of influenza in region with increased ILI <u>OR</u> recent (within the past 3 weeks) lab evidence of influenza in region with the outbreaks; virus activity is no greater than sporadic in other regions.
Regional Activity	Increased ILI in > 2 but less than half of the regions <u>AND</u> recent (within the past 3 weeks) lab confirmed influenza in affected regions. <u>OR</u> institutional outbreaks (ILI or lab confirmed) in > 2 and less than half or regions <u>AND</u> recent lab confirmed influenza in affected regions. A region is defined as the regions States use for public health purposes.
Widespread Activity	Increased ILI and/or institutional outbreaks (ILI or lab confirmed) in at least half of the regions <u>AND</u> recent (within the past weeks) lab confirmed influenza in the state.

Source: Illinois Department of Public Health, Influenza Surveillance, 2016.

National Data

Center for Disease Control and Prevention (CDC): Week 47 (20 – 26 Nov 16)

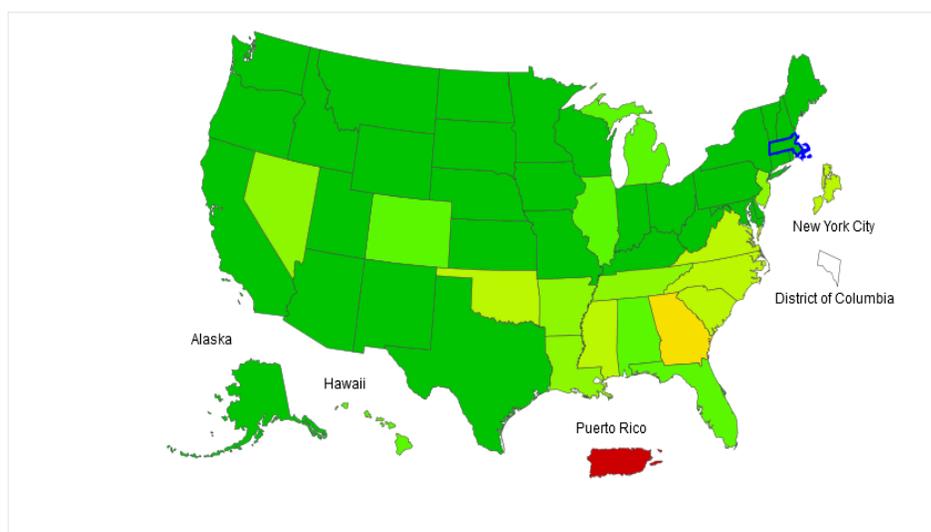
Flu/Influenza-Like Illness (ILI) activity increased slightly but remained low in the United States

- **Viral Surveillance:** The most frequently identified influenza virus subtype reported by public health laboratories during week 47 was influenza A (H3). The percentage of respiratory specimens testing positive for influenza in clinical laboratories increased slightly, but remained low.
- **Influenza-Associated Pediatric Deaths:** No influenza-associated pediatric deaths were reported.
- **Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was below the system-specific epidemic threshold in the National Center for Health Statistics (NCHS) Mortality Surveillance System.

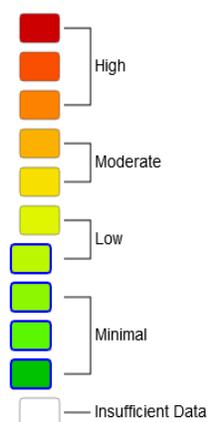
FLUVIEW A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet



2016-17 Influenza Season Week 47 ending Nov 26, 2016



ILI Activity Level



*This map uses the proportion of outpatient visits to healthcare providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

*Data collected in ILINet may disproportionately represent certain populations within a state, and therefore may not accurately depict the full picture of influenza activity for the whole state.

*Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.

*Differences in the data presented by CDC and state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete.

*For the data download you can use Activity Level for the number and Activity Level Label for the text description.

Source: Centers for Disease Control and Prevention, Flu Activity and Surveillance, 2016.