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What is Influenza?

Influenza is a virus which primarily causes a respiratory illness (flu), which can then be spread to others by tiny air droplets when people talk, cough, or sneeze. Symptoms include cough, sore throat, runny nose, fever, headaches, and body aches. Older people, young children, and people with certain chronic conditions or weakened immune systems are at high risk for severe flu complications that may lead to hospitalization or even death. **The best way to prevent the flu or lessen its symptoms is to get the flu vaccine. All individuals 6 months and older should be vaccinated annually.**

Staying home when sick, washing hands, covering coughs and sneezing and wearing a mask around others greatly reduced cases of influenza and those with influenza-like illness during the previous (2021–2022) flu season. **This fall season we are seeing a large increase in respiratory syncytial virus (RSV) in children 0-5 years old and anticipate increases in COVID-19 and flu.**

This report summarizes the weekly flu activity in Lake County, Illinois. The typical Influenza “flu” season runs from early October through the end of March but may run longer. Please note all data are preliminary and are subject to change.

Weekly Summary

The following data was obtained from the Illinois National Electronic Disease Surveillance System (I-NEDSS), and from the Illinois Dept of Public Health website.

Geographic Area	Influenza-related intensive care unit admissions		Influenza-related pediatric deaths (0–18 years)		Influenza/Influenza-like illness ^a cluster or outbreaks in Congregate settings ^b	
	Week – No. of Cases	Season Total	Week – No. of Cases	Season Total	Week – No. of Cases	Season Total
Lake County	Wk 50 – 6	34	Wk 50 – 0	2	Wk 50 – 5	5
Illinois ^c	Wk 49 – 17	488	Wk 49 – 0	1	Wk 49 – 12	54

^a Influenza-like illness (ILI) is defined as fever (temperature $\geq 100^{\circ}\text{F}$ [37.8°C]) and cough and/or sore throat without a known cause other than influenza.

^b Congregate settings are defined as long-term care facilities, group homes, hospitals, and correctional facilities.

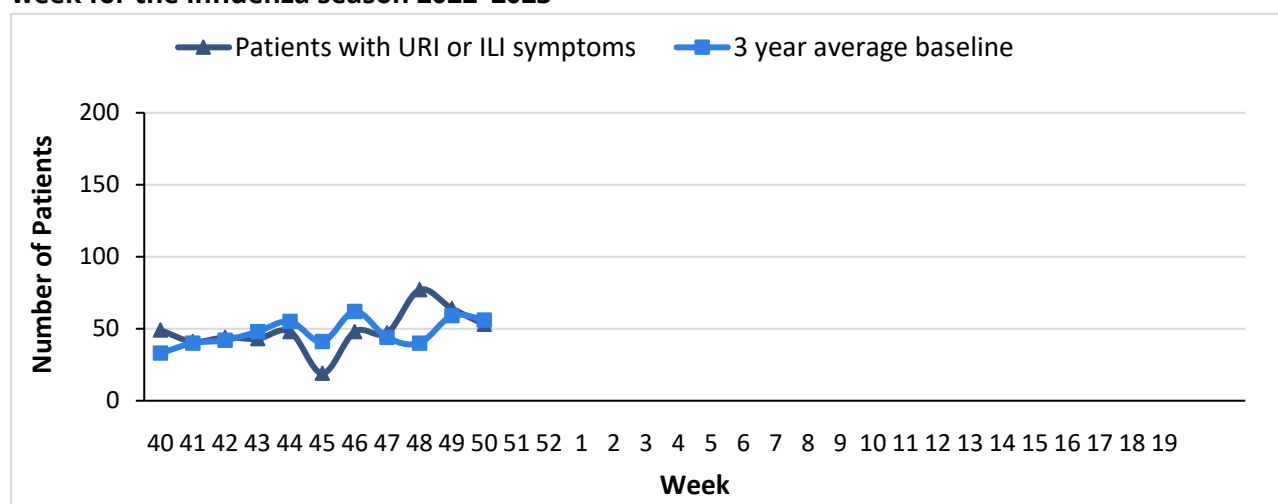
^c Illinois Department of Public Health (IDPH) reporting weeks may be delayed.

During **week 49**, there were **9** pediatric deaths reported due to influenza across the United States. A total of **30** pediatric flu deaths have been reported for the 2022–2023 flu season (CDC). There has been **2** influenza-associated pediatric death reported for the 2022–2023 flu season in Lake County.

Lake County Health Department Virologic Surveillance

Lake County Health Department, Federally Qualified Health Centers (FQHCs) include 8 outpatient clinics. In 2020, the FQHCs had 76,044 healthcare provider visits. The total number of patients with upper respiratory tract infections (URI) or ILI was obtained from electronic health records for these sites.

Figure 1. The number of patients diagnosed with upper respiratory tract infections (URI) or ILI, as reported by Lake County Health Department, Federally Qualified Health Centers, by week for the influenza season 2022–2023

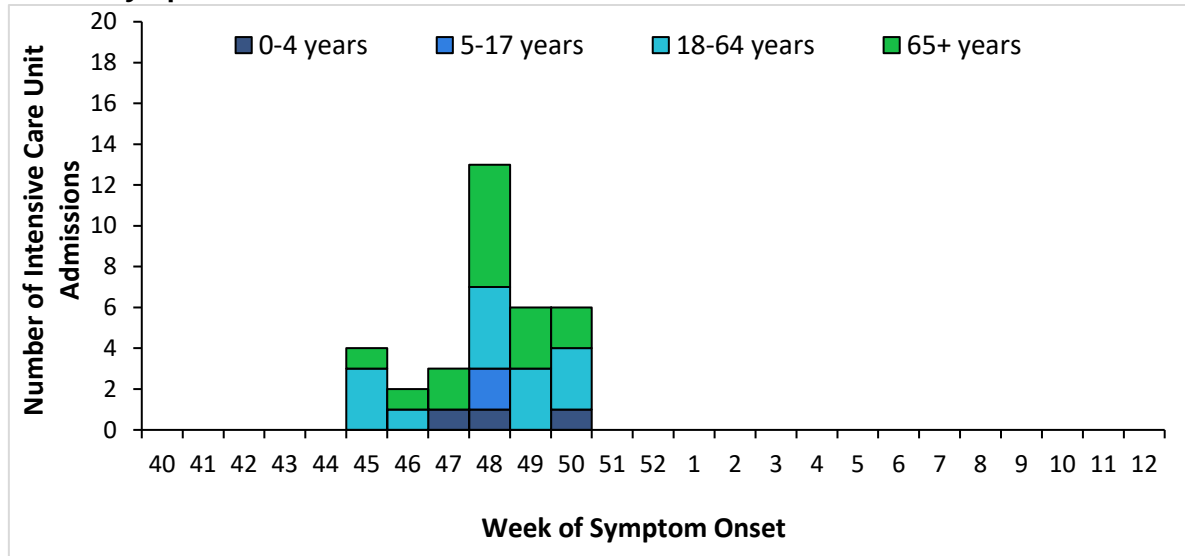


The 3-year average baseline is defined as the average number of patients with URI or ILI symptoms for weeks 40–52 for years 2019, 2020 & 2021. **Starting week 01 of 2023 and onward, the 3-year average will be for 2020, 2021, and 2022.**

Influenza-Associated Intensive Care Unit Hospitalizations in Lake County

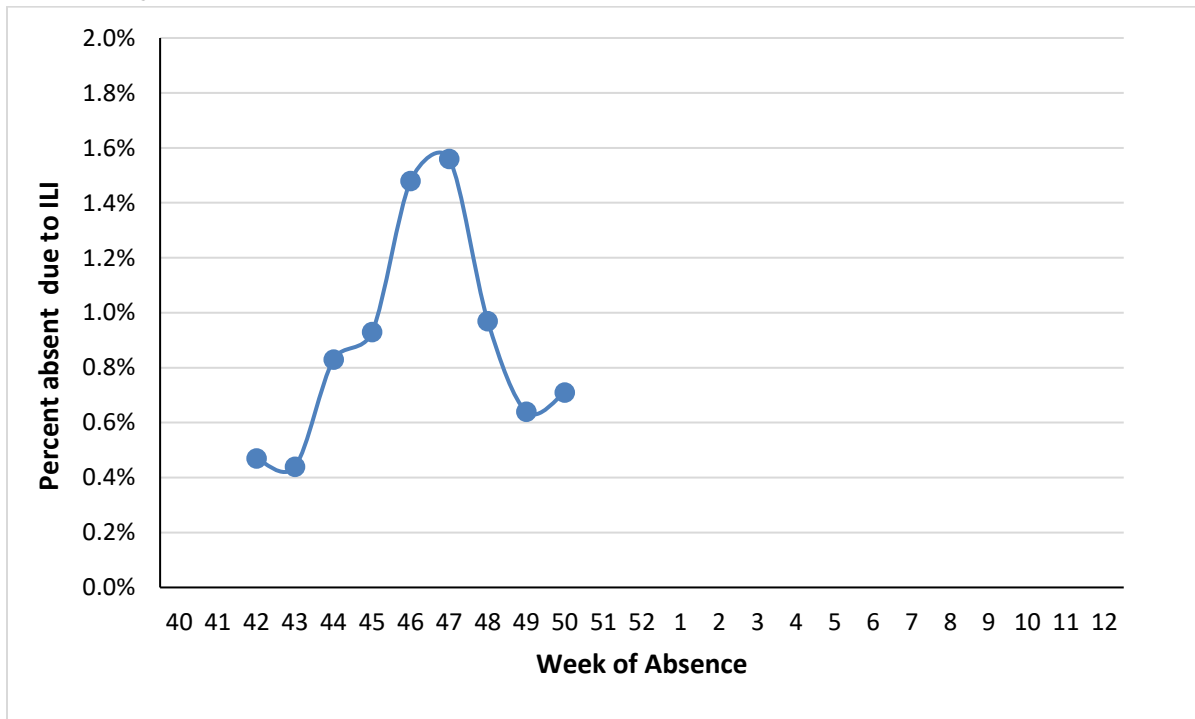
There were **6** influenza-associated intensive care unit admissions reported to LCHD/CHC during **week 50**.

Figure 2. Number of influenza-associated intensive care unit admissions, by age group and week of symptom onset, 2022–2023



Absenteeism due to Influenza-like Illness in Lake County Schools

Figure 3. Percent absent due to influenza-like illness (ILI) among total students enrolled, academic year 2022–2023



Percent absent due to influenzae-like illness is the proportion of those who are absent due to ILI out of the total students enrolled in the surveillance program.

Week 42: Lake County School ILI surveillance data became available.

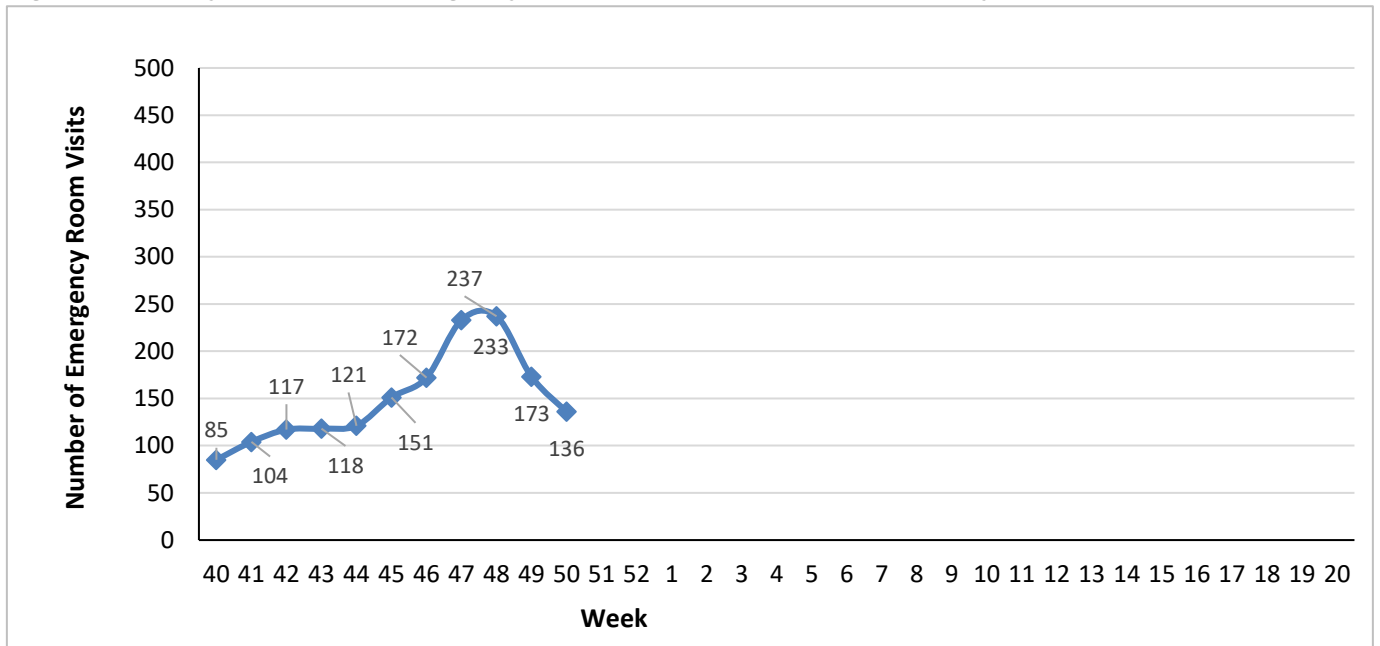
Week 47: Week of Thanksgiving.

Week 50: Six school districts reporting.

Emergency Room visits in Lake County due to Influenza-like Illness

The Illinois Department of Public Health collects emergency department visits from all acute care hospitals in Illinois for syndromic surveillance (ESSENCE surveillance system). In this report, the visits are classified as ILI based on the chief complaints that include terms “influenza” or “fever and cough or sore throat” similar to the CDC ILINET definition while excluding terms unrelated to ILI. In **week 50**, we saw **136** emergency room visits for ILI in the seven Lake County Hospitals.

Figure 4. Weekly number of Emergency Room visits due to ILI, Lake County, IL, 2022–2023



For questions regarding influenza and reportable diseases, please contact Communicable Disease (CD program) at (847) 377-8130.