

# Kentucky Department for Public Health Weekly Influenza Surveillance Report Morbidity and Mortality Weekly Report (MMWR) Week 48 November 25 – December 1, 2018



## Current Influenza Activity Level: †REGIONAL

† **Regional:** Outbreaks of influenza *or* increases in ILI *and* recent laboratory confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions.

\***Confirmed:** Influenza laboratory Confirmed Cases are defined by positive molecular virus (RT-PCR) or Virus Culture test results. Those positive test results are reportable in Kentucky. (Positive results for Rapid Influenza Diagnostic Tests are not included in this report).

### Influenza-like Illness (ILI) Case Definition:

- Fever ( $\geq 100^{\circ}\text{F}$  [ $37.8^{\circ}\text{C}$ ], oral or equivalent, PLUS Cough  
-OR-
- Fever ( $\geq 100^{\circ}\text{F}$  [ $37.8^{\circ}\text{C}$ ], oral or equivalent, PLUS Sore Throat  
-OR-
- Fever ( $\geq 100^{\circ}\text{F}$  [ $37.8^{\circ}\text{C}$ ], oral or equivalent, PLUS Cough *and* Sore Throat

Activity Level Range: Sporadic Local Regional Widespread

Update for week 48:		Updated Total 2018-2019 Season:	
Lab Confirmed Influenza:	38 Cases	Lab Confirmed Total:	156 Cases
Number of Regions with Long Term Care Facility Outbreaks:	1 of 17 Regions	Total Number of Long Term Care Facility Outbreaks:	1 Outbreaks
Number of Regions with Confirmed Flu Cases:	5 of 17 Regions	Total Number of Regions with Confirmed Flu Cases:	13 of 17 Regions
Deaths Reported:	0 (under 18 years) 0 (18 years & older)	Total Deaths Reported:	0 (under 18 years) 2 (18 years & older)
Number of Regions with Increased ILI Activity:	7 of 17 Regions	Number of Regions with ILI Activity this Flu Season:	13 of 17 Regions
Number of Regions with Increased Influenza Activity:	2 of 17 Regions		

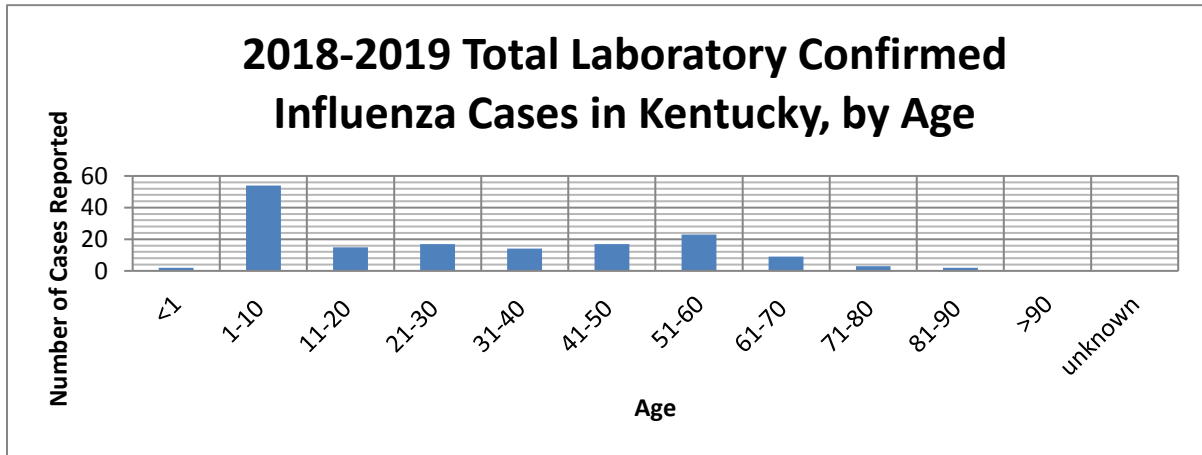
*\*\*All data are preliminary and may change as more delayed reports are received*

Kentucky National Electronic Disease Surveillance System (NEDSS) and U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) Data. Department for Public Health, Cabinet for Health and Family Services, Frankfort, Kentucky, [November 25 – December 1, 2018].

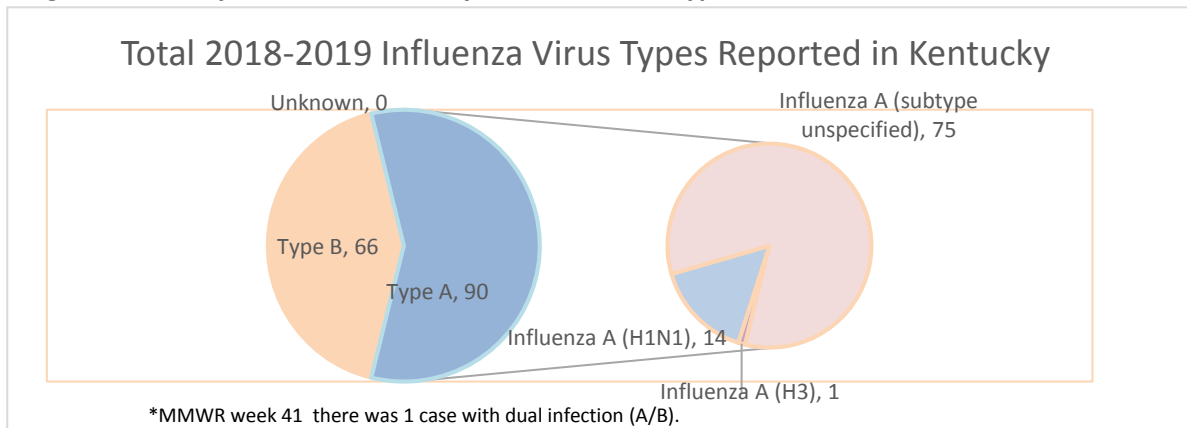
# Weekly Influenza Surveillance Report

## MMWR Week 48: November 25 – December 1, 2018

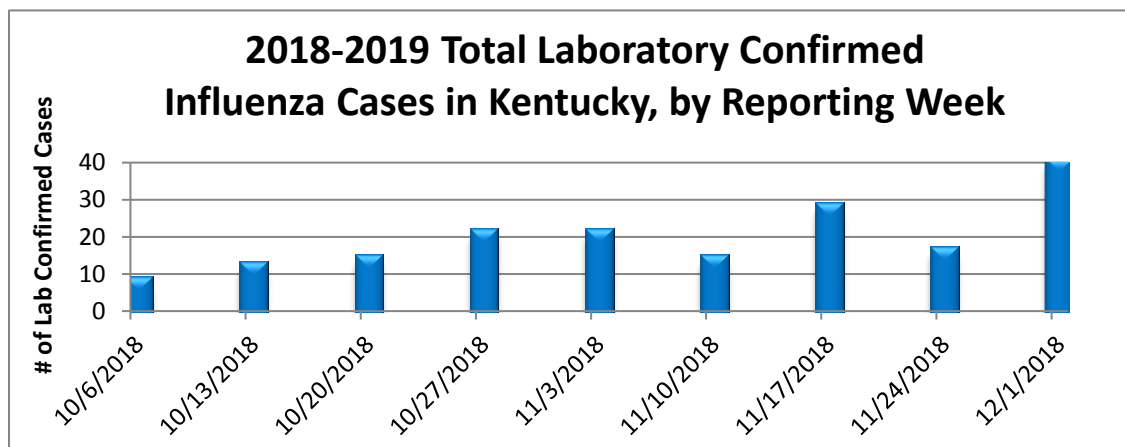
**Fig 1: Laboratory Confirmed Cases by Age**



**Fig 2: Laboratory Confirmed Cases by Influenza Virus Types**



**Fig 3: 2018-2019 Total Laboratory Confirmed Influenza Cases in Kentucky, by Reporting Week**



\*Confirmed: Influenza laboratory Confirmed Cases are defined by positive RT-PCR or Virus Culture test results





**National Data**  
**2018-2019 Influenza Season**  
**Week 47 ending November 24, 2018**

*All data are preliminary and may change as more reports are received.*

*\*Week 48 will be available December 13<sup>th</sup>.*

**Synopsis:**

Influenza activity in the United States increased slightly. The increase in the percentage of patient visits for ILI may be influenced in part by a reduction in routine healthcare visits during the Thanksgiving holidays, as has occurred in previous seasons. Influenza A(H1N1)pdm09, influenza A(H3N2), and influenza B viruses continue to co-circulate, with influenza A(H1N1)pdm09 viruses reported most commonly by public health laboratories since September 30, 2018. Below is a summary of the key influenza indicators for the week ending November 24, 2018:

- **Viral Surveillance:** Influenza A viruses have predominated in the United States since the beginning of July. The percentage of respiratory specimens testing positive for influenza in clinical laboratories was low.
  - **Virus Characterization:** The majority of influenza viruses characterized antigenically and genetically are similar to the cell-grown reference viruses representing the 2018–2019 Northern Hemisphere influenza vaccine viruses.
  - **Antiviral Resistance:** All viruses tested since late May show susceptibility to the antiviral drugs oseltamivir, zanamivir, and peramivir.
- **Influenza-like Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) increased to 2.3%, which is above the national baseline of 2.2%. Five of 10 regions reported ILI at or above their region-specific baseline level.
  - **ILI State Activity Indicator Map:** Two states experienced high ILI activity; three states experienced moderate ILI activity; New York City, the District of Columbia, Puerto Rico and eight states experienced low ILI activity; and 37 states experienced minimal ILI activity.
- **Geographic Spread of Influenza:** The geographic spread of influenza in five states was reported as regional; 16 states reported local activity; the District of Columbia, Puerto Rico, the U.S. Virgin Islands and 28 states reported sporadic activity; and Guam and one state reported no influenza activity.
- **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.
- **Influenza-associated Pediatric Deaths:** Two influenza-associated pediatric deaths were reported to CDC for week 47.

Weekly U.S. Influenza Surveillance Report. Centers for Disease Control and Prevention.

<https://www.cdc.gov/flu/weekly/index.htm>, Retrieved: 12/5/2018.