



# Missouri Weekly Influenza Surveillance Report 2022-2023 Influenza Season<sup>1</sup>

## Week 42: October 16, 2022 – October 22, 2022

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

### Summary:

- The estimated influenza activity in Missouri is Regional<sup>2</sup>. Cases of influenza were reported in all five regions of the State. The overall ILI activity for week 42 increased to Low (Level 4).<sup>3</sup>
- During Week 42, a total of 323 laboratory-positive<sup>4</sup> influenza cases (254 influenza A, 67 influenza B and 2 untyped) were reported. The influenza type for reported season-to-date cases includes 73.3 % influenza A, 26.1 % influenza B and 0.6% untyped. The percentage of respiratory specimens testing positive for influenza in Missouri laboratories reporting to the National Respiratory and Enteric Virus Surveillance System (NREVSS) increased to 2.5% during Week 42.
- Influenza-like illness (ILI) activity for Week 42 was above baseline for the hospital emergency room visit chief complaint data reported through ESSENCE. The reported percentage of visits for ILI through ESSENCE increased to 2.66 % (Figure 6).<sup>5</sup>
- No influenza-associated deaths have been reported in Missouri as of week 42.
- No influenza or ILI-associated outbreaks have been reported in Missouri as of Week 42.
- National influenza surveillance information is prepared by CDC and is included in the weekly FluView report, which is available online at <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>.

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<sup>1</sup>The 2022- 2023 influenza season begins CDC Week 40 (week ending October 8, 2022) and ends CDC Week 39 (week ending September 30, 2023).

<sup>2</sup>Regional is defined as: 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.

<sup>3</sup>ILI Activity indicates levels of activity on a scale of 1-13 ranging from minimal to very high. For more information see <https://gis.cdc.gov/grasp/fluview/main.html>

<sup>4</sup>Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

<sup>5</sup>ILI is defined by ESSENCE as Emergency Department chief complaints for Influenza or (FeverPlus and (Cough or SoreThroat) and not NonILIFevers).

<sup>6</sup>All influenza-associated deaths became reportable in Missouri in 2016. Influenza deaths are collected from Missouri's death certificate database. Decedents with influenza listed as a cause or contributor to death are classified as an influenza-associated death. Due to reporting delays, current week data should be considered preliminary.

# Surveillance Data:

## Interactive Maps

The jurisdiction-specific influenza data are provided through interactive maps available at <https://arcg.is/DKTS0>. Click on the jurisdiction to view the influenza data specific to that jurisdiction.

- Reported Laboratory-positive Influenza Cases by Influenza Type by Jurisdiction, CDC Week 42
- Reported Week-specific Rate per 100,000 Population, CDC Week 42
- Reported Laboratory-positive Influenza Cases by Influenza Type by Jurisdiction, Season-to-Date
- Reported Rate per 100,000 Population, Season-to-Date

## Data Figures

**Figure 1. Number of Laboratory-positive<sup>†</sup> Influenza Cases by Influenza Type, Missouri, CDC Weeks 40-42 (October 2, 2022 – October 22, 2022)\***

Influenza Type	Week 40	Week 41	Week 42	2022-2023* Season-to-Date
Influenza A	81	187	254	522
Influenza B	47	72	67	186
Influenza Unknown Or Untyped	0	2	2	4
<b>Total</b>	<b>128</b>	<b>261</b>	<b>323</b>	<b>712</b>

<sup>†</sup>Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

\*Influenza season begins with the week ending October 8, 2022 (CDC Week 40) Data Source: Missouri Health Information Surveillance System (WebSurv).

**Figure 2. Number of Laboratory-positive<sup>†</sup> Influenza Cases and Case Rates by Age Group, Missouri, CDC Week 42 (October 16, 2022 – October 22, 2022)\***

Age Group	Week 42 Cases	Week 42 Rate <sup>‡</sup>	2022-23* Season-to-Date	2022-2023* Season-to-Date Rate <sup>‡</sup>
00-04	67	18.20	141	38.31
05-24	154	9.85	281	17.97
25-49	57	2.93	146	7.51
50-64	27	2.25	83	6.92
65+	18	1.69	61	5.74
<b>Total</b>	<b>323</b>	<b>5.26</b>	<b>712</b>	<b>11.60</b>

<sup>†</sup>Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

\*Influenza season begins week ending October 8, 2022 (CDC Week 40) Data Source: Missouri Health Information Surveillance System (WebSurv)

<sup>‡</sup>Incidence Rate per 100,000 population

**Figure 3. Number of Laboratory-positive<sup>†</sup> Influenza Cases and Case Rates by Region, Missouri, CDC Week 42 (October 8, 2022 – October 15, 2022)\*\***

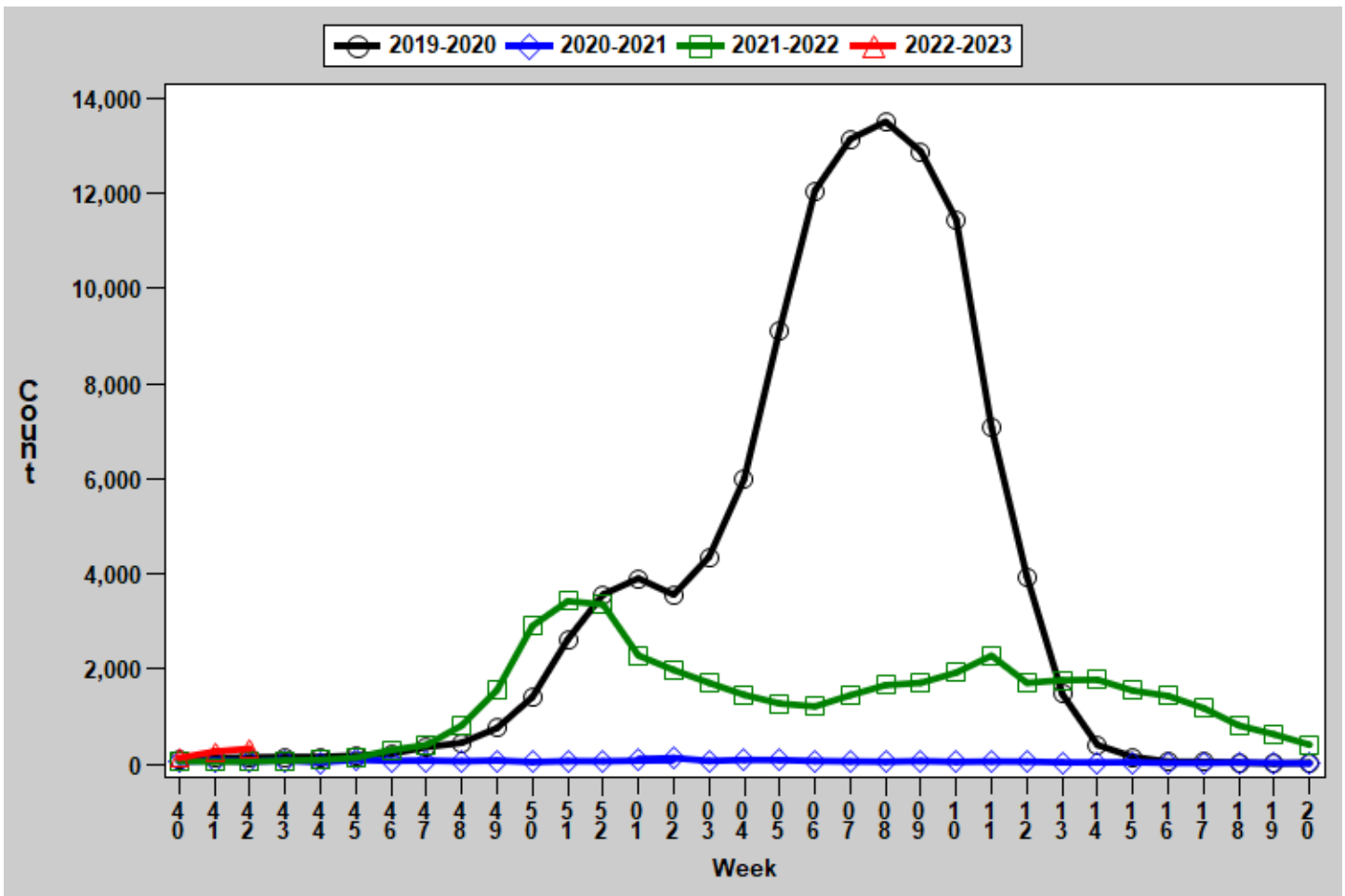
Region	Week 42 Cases	Week 42 Rate <sup>‡</sup>	2022-23* Season-to-Date	2022-23* Season-to-Date Rate <sup>‡</sup>
Central	31	4.59	83	12.30
Eastern	86	3.79	184	8.11
Northwest	45	2.75	188	11.49
Southeast	96	22.20	135	31.22
Southwest	65	6.19	122	11.61
<b>Total</b>	<b>323</b>	<b>5.26</b>	<b>712</b>	<b>11.60</b>

<sup>†</sup>Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

\*Influenza season begins week ending October 8, 2022 (CDC Week 40) Data Source: Missouri Health Information Surveillance System (WebSurv)

<sup>‡</sup>Incidence Rate per 100,000 population

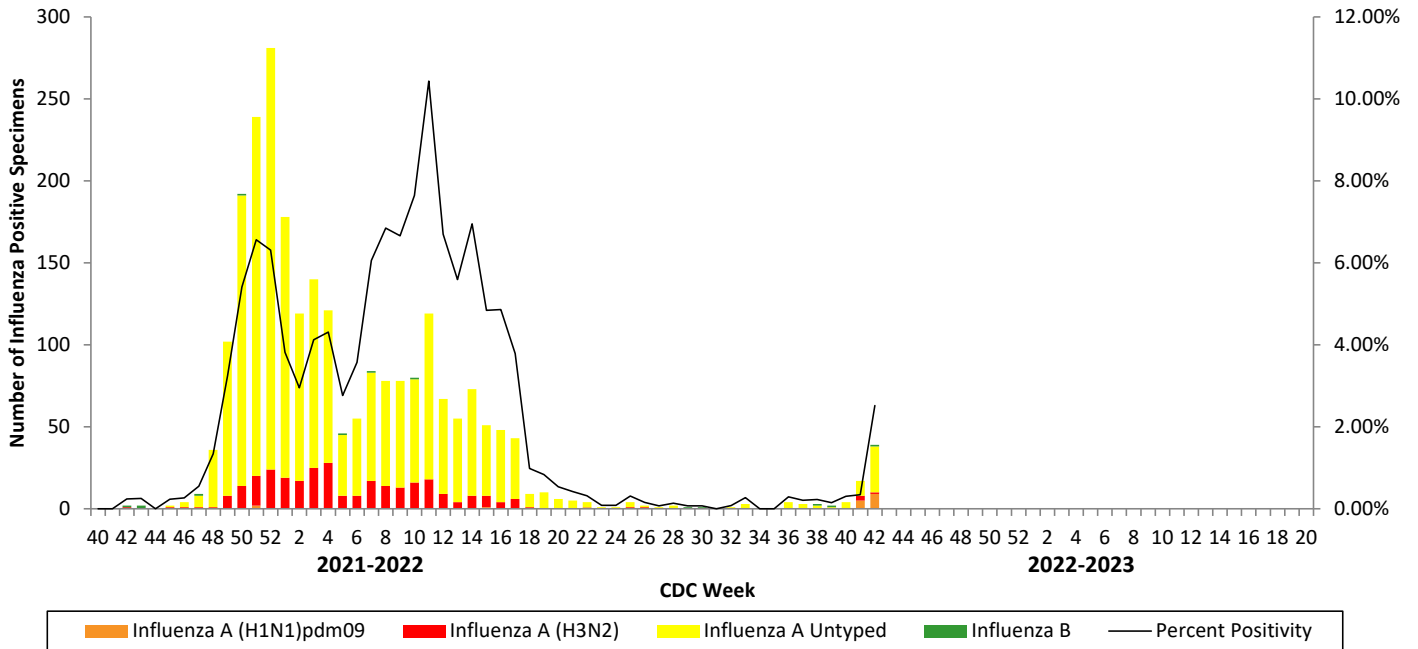
**Figure 4. Number of Laboratory-positive<sup>†</sup> Influenza Cases by CDC Week, Missouri, 2019-2023\***



<sup>†</sup>Laboratory-positive influenza includes the following test methods: rapid influenza diagnostic tests (antigen), reverse transcriptase polymerase chain reaction (RT-PCR) and other molecular assays, immunofluorescence antibody staining (Direct (DFA) or Indirect (IFA)), or viral culture.

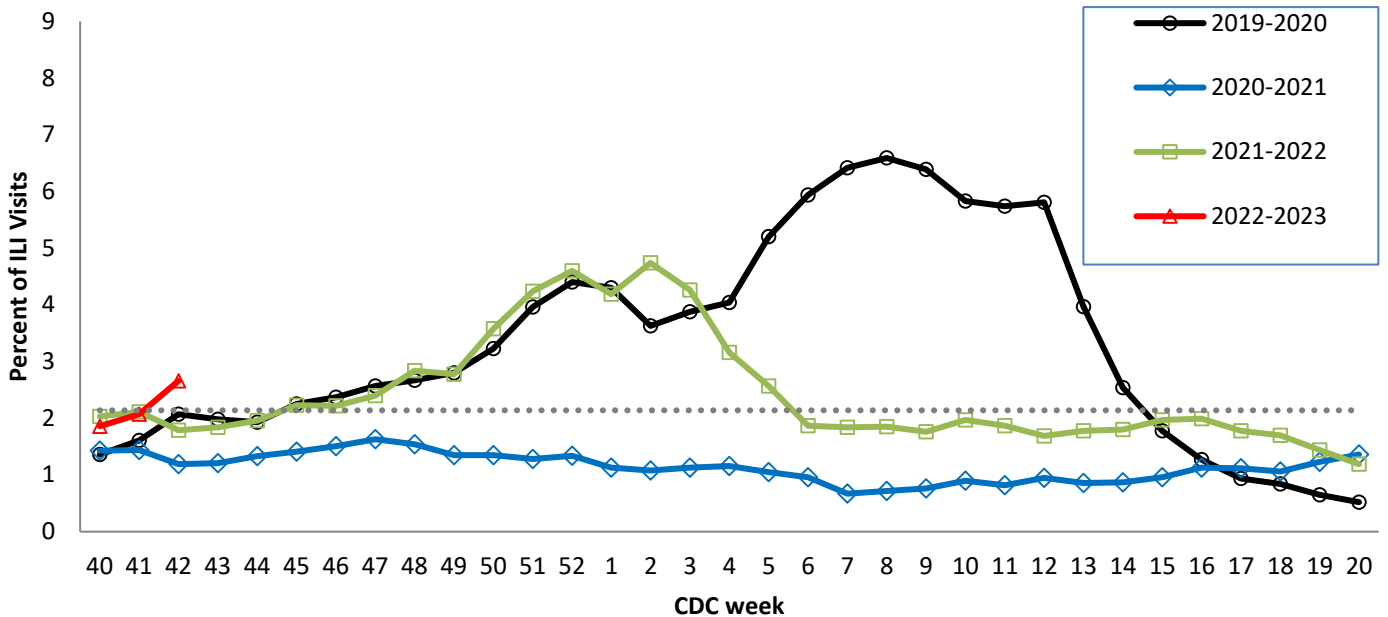
\*2022-2023 season-to-date through the week ending October 22, 2022 (Week 42).Data Source: Missouri Health Information Surveillance System (WebSurv)

**Figure 5. Season-to-Date PCR (+) Tests for Influenza in Missouri**



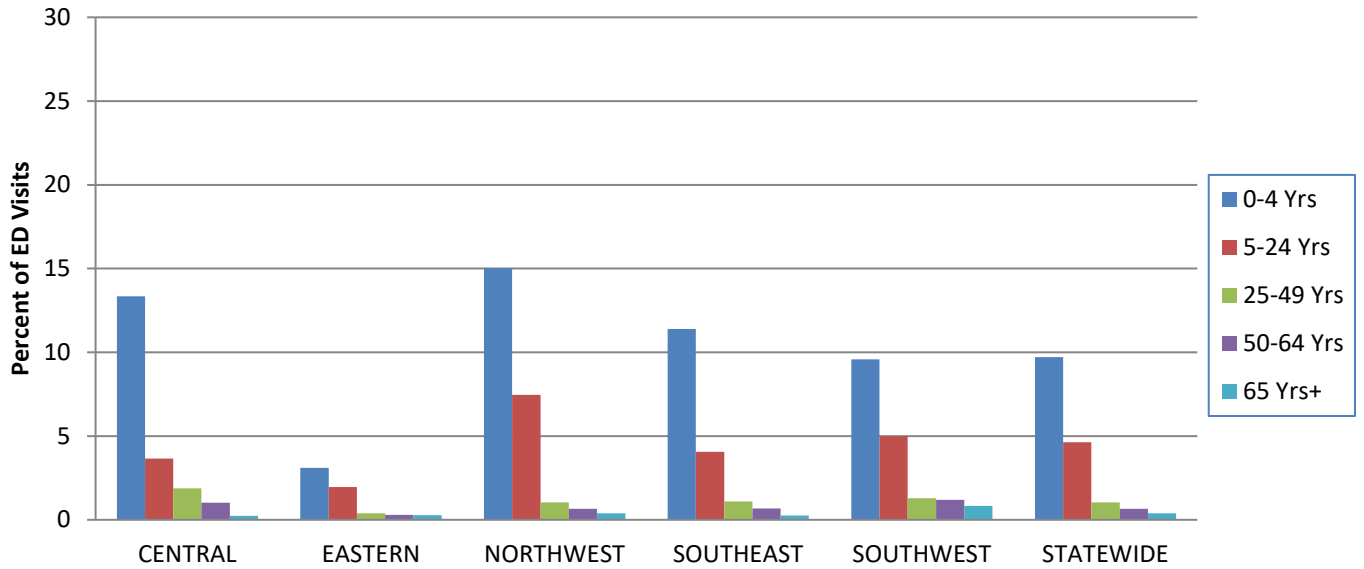
Data Source: National Respiratory and Enteric Virus Surveillance System (NREVSS), Centers for Disease Control and Prevention (CDC). 2022-2023 season-to-date through the week ending October 15, 2022 (Week 42).

**Figure 6. Percentage of Emergency Department (ED) Visits for Influenza-like Illness (ILI) in ESSENCE Participating Hospitals, 2019-2023 Influenza Seasons\*\***



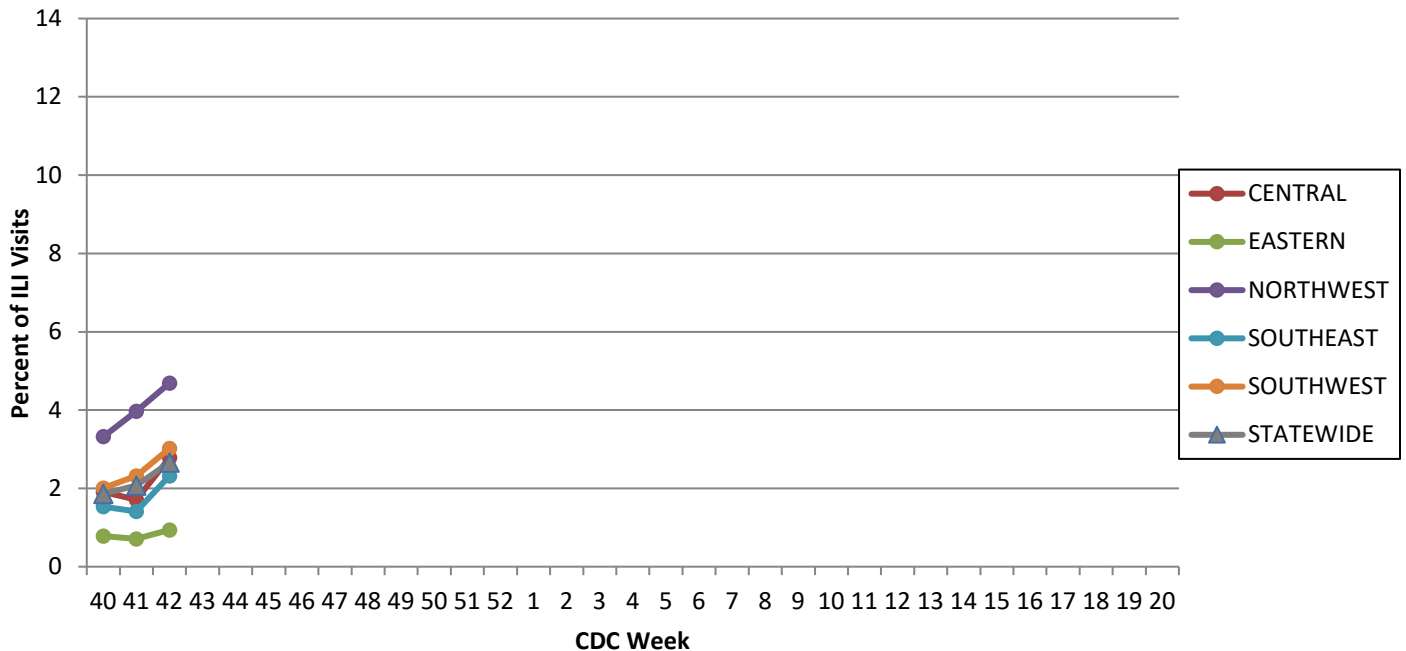
\*The ESSENCE ILI Baseline is the mean percent of ILI visits for each week during the previous three flu seasons when percentage of ILI visits were less than 2% of total visits, plus two standard deviations. Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE version 1.20.

**Figure 7. Percentage of Emergency Department (ED) Visits for Influenza-like Illness (ILI) in ESSENCE Participating Hospitals, by Age Group, Region and Statewide, Week 42, 2022\***



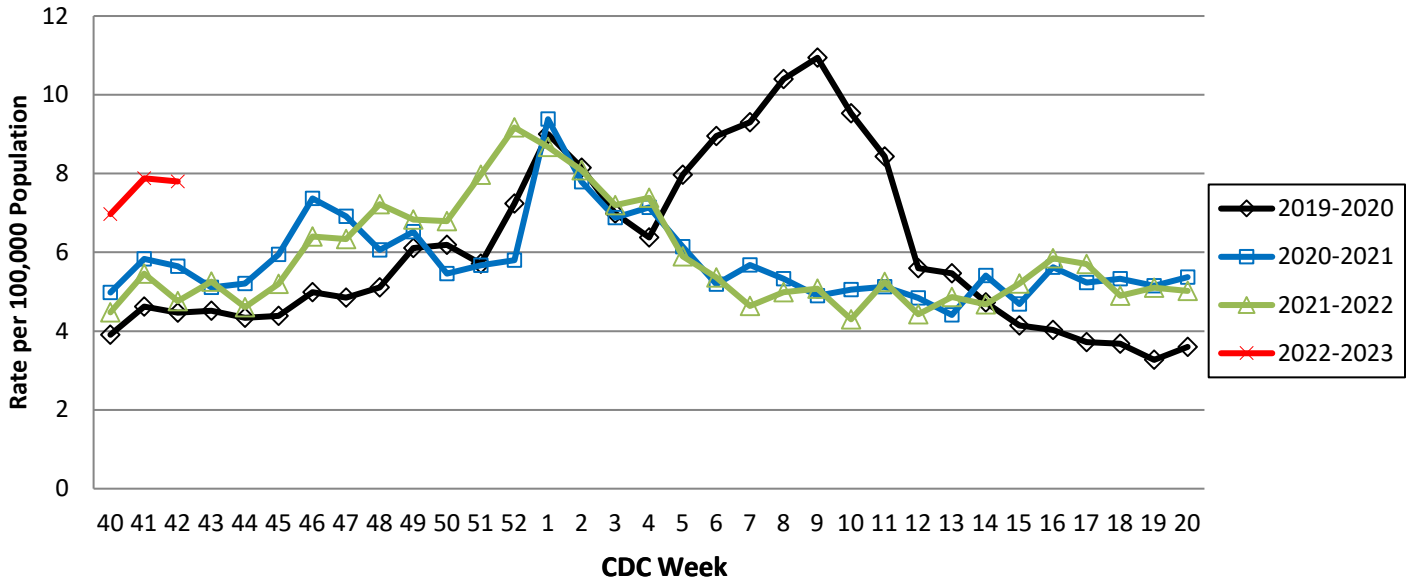
Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE version 1.20.  
 \*The ILI data from a small number of sites located in the Northwest Region of the state is temporarily unavailable in ESSENCE. Therefore, the ILI data for the Northwest Region should be interpreted with caution.

**Figure 8. Percentage of Emergency Department (ED) Visits for Influenza-like Illness (ILI) in ESSENCE Participating Hospitals, by Region and Statewide, 2022-2023 Influenza Season\***



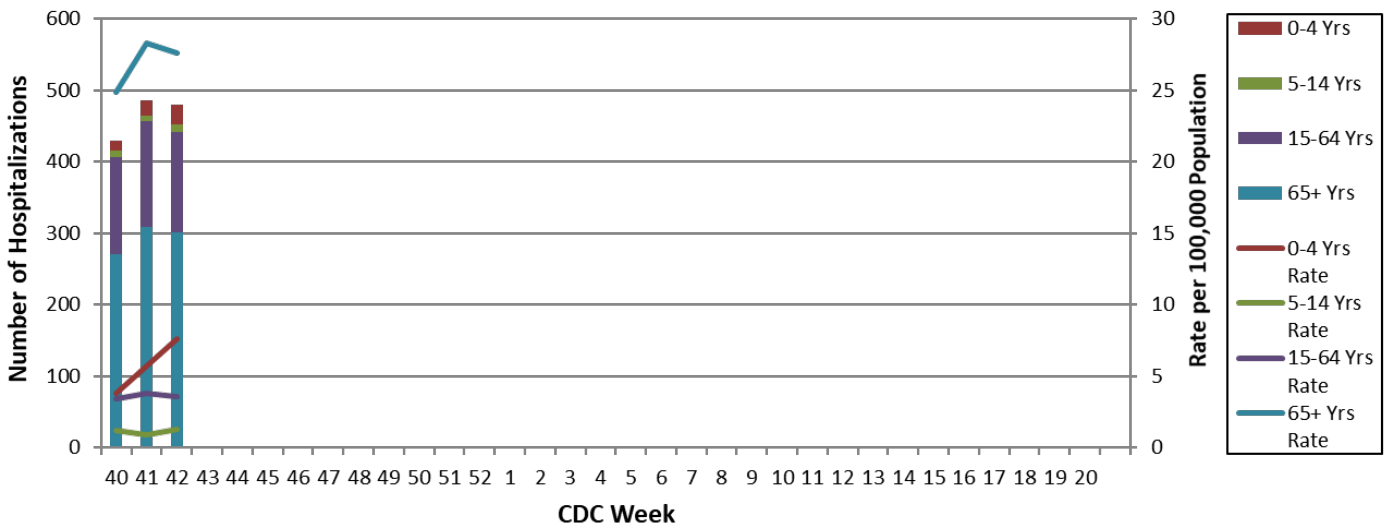
Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE version 1.20.  
 \*The ILI data from a small number of sites located in the Northwest Region of the state is temporarily unavailable in ESSENCE. Therefore, the ILI data for the Northwest Region should be interpreted with caution.

**Figure 9. Weekly Rate of Patients Hospitalized with Influenza and/or Pneumonia Syndromes in Missouri Hospitals, 2019-2023 Influenza Seasons**



Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, HL7 Messaging Portal. Population data from Missouri Census Data Center 2017 (<https://census.missouri.edu>).

**Figure 10. Number of Patients Hospitalized with Influenza and/or Pneumonia Syndromes in Participating Missouri Hospitals by Age Group, Week 42, 2022-2023 Influenza Season**



Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, HL7 Messaging Portal

## **Additional Influenza Data Sources:**

**Centers for Disease Control and Prevention: National Influenza Surveillance (FluView):**  
<http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>

**The National Respiratory and Enteric Virus Surveillance System (NREVSS):**  
<https://www.cdc.gov/surveillance/nrevss/>

**World Health Organization: International Influenza Surveillance:**  
[http://www.who.int/influenza/surveillance\\_monitoring/en/](http://www.who.int/influenza/surveillance_monitoring/en/)