



# Missouri Weekly Influenza Surveillance Report 2021-2022 Influenza Season<sup>1</sup>

## Week 7: February 13, 2022 – February 19, 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>.
- During Week 7, a total of 933 laboratory-positive<sup>3</sup> influenza cases (855 influenza A, 74 influenza B and 4 untyped) were reported. A season-to-date total of 22,213 laboratory-positive influenza cases (19,795 influenza A, 2,222 influenza B, and 196 untyped) have been reported in Missouri as of Week 7. The influenza type for reported season-to-date cases includes 89.1% influenza A, 10% influenza B, and 0.9% 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 6.5% during Week 7, with the most common subtype being A(H3N2) (Figure 5).
- Influenza-like illness (ILI) activity for Week 7 was below baseline for the hospital emergency room visit chief complaint data reported through ESSENCE. The reported percentage of visits for ILI through ESSENCE was 1.84% (Figure 6).<sup>4</sup>
- Seventeen influenza-associated deaths have been reported in Missouri as of Week 7.<sup>5</sup>
- Four influenza or ILI-associated outbreaks have been reported in Missouri as of Week 7.
- 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 2021- 2022 influenza season begins CDC Week 40 (week ending October 9, 2021) and ends CDC Week 39 (week ending October 1, 2022).

<sup>2</sup>Regional is defined as: Increased ILI in two regions and elevated numbers of laboratory-confirmed influenza in those regions.

<sup>3</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>4</sup>ILI is defined by ESSENCE as Emergency Department chief complaints for Influenza or (FeverPlus and (Cough or SoreThroat) and not NonILIFevers).

<sup>5</sup>All influenza-associated deaths became reportable in Missouri in 2016.

## Surveillance Data:

### Interactive Maps

The jurisdiction-specific influenza data are provided through interactive maps available at <https://arcg.is/G5LWv>.

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 7
- Reported Week-specific Rate per 100,000 Population, CDC Week 7
- 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 5-7 (January 30, 2021 – February 19, 2022)<sup>\*</sup>**

Influenza Type	Week 5	Week 6	Week 7	2021-2022* Season-to-Date
Influenza A	1,095	933	855	19,795
Influenza B	100	84	74	2,222
Influenza Unknown Or Untyped	23	36	4	196
<b>Total</b>	<b>1,218</b>	<b>1,053</b>	<b>933</b>	<b>22,213</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 9, 2021 (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 7 (February 13, 2022 – February 19, 2022)<sup>\*\*</sup>**

Age Group	Week 7 Cases	Week 7 Rate <sup>‡</sup>	2021-22* Season-to-Date	2021-2022* Season-to-Date Rate <sup>‡</sup>
00-04	160	43.47	3,216	873.72
05-24	480	30.69	11,300	722.50
25-49	166	8.54	4,206	216.46
50-64	69	5.75	1,856	154.64
65+	58	5.46	1,635	153.95
<b>Total</b>	<b>933</b>	<b>15.20</b>	<b>22,213</b>	<b>361.93</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 3, 2020 (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 7 (February 13, 2022 – February 19, 2022)<sup>\*\*</sup>**

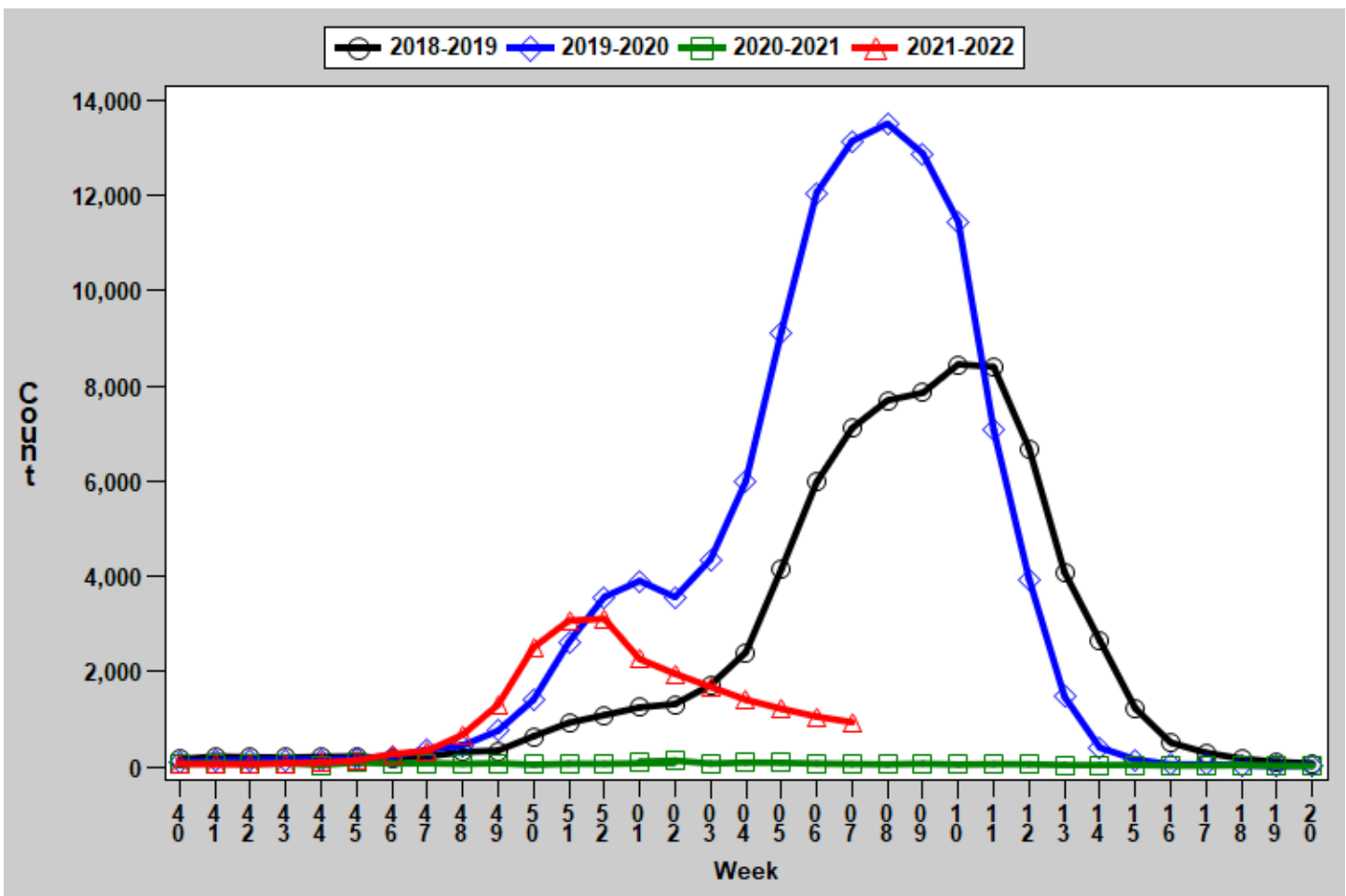
Region	Week 7 Cases	Week 7 Rate <sup>‡</sup>	2021-22* Season-to-Date	2021-22* Season-to-Date Rate <sup>‡</sup>
Central	171	25.34	2,891	428.41
Eastern	206	9.08	6,840	301.62
Northwest	140	8.55	5,028	307.20
Southeast	83	19.19	2,651	613.04
Southwest	333	31.70	4,803	457.15
<b>Total</b>	<b>933</b>	<b>15.20</b>	<b>22,213</b>	<b>361.93</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.

<sup>\*</sup>Influenza season begins week ending October 3, 2020 (CDC Week 40) Data Source: Missouri Health Information Surveillance System (WebSurv)

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

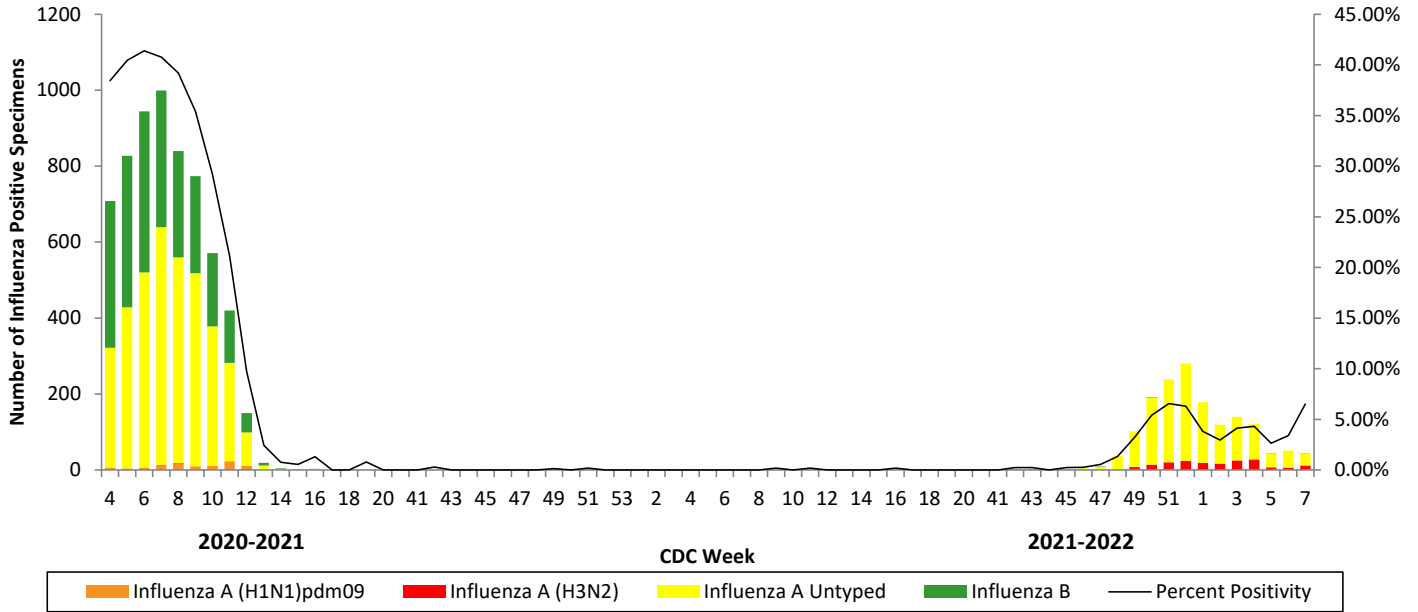
**Figure 4. Number of Laboratory-positive<sup>†</sup> Influenza Cases by CDC Week, Missouri, 2018-2022<sup>\*</sup>**



<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.

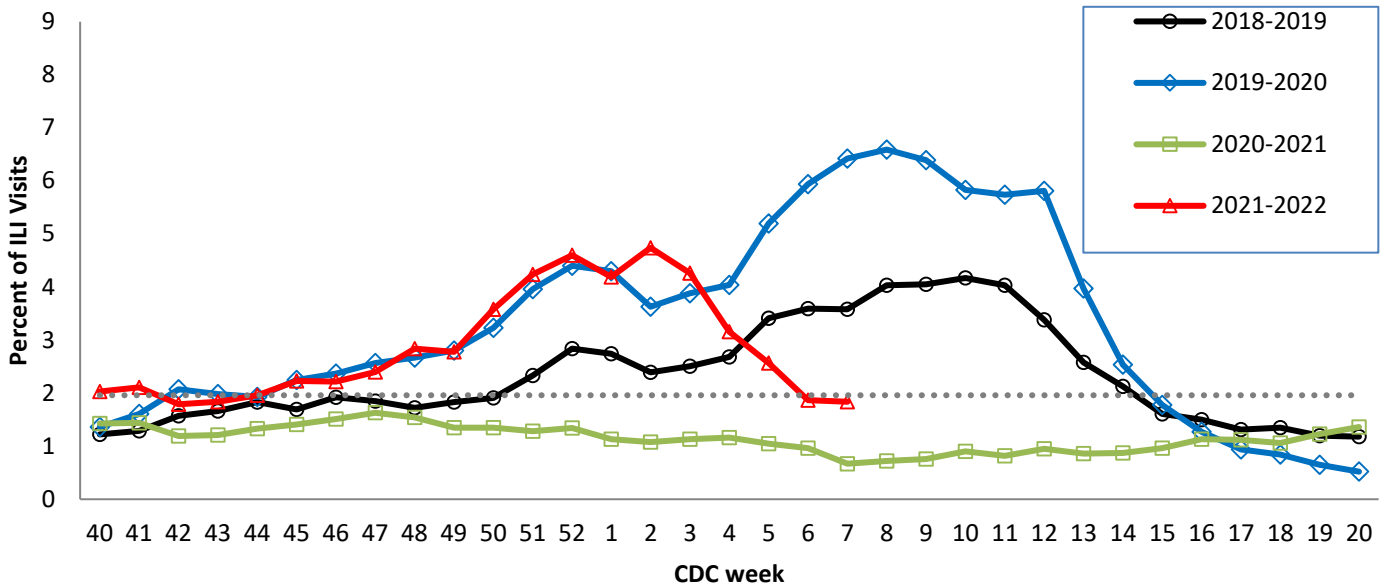
<sup>\*</sup>2021-2022 season-to-date through the week ending May 21, 2022 (Week 20).Data Source: Missouri Health Information Surveillance System (WebSurv)

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



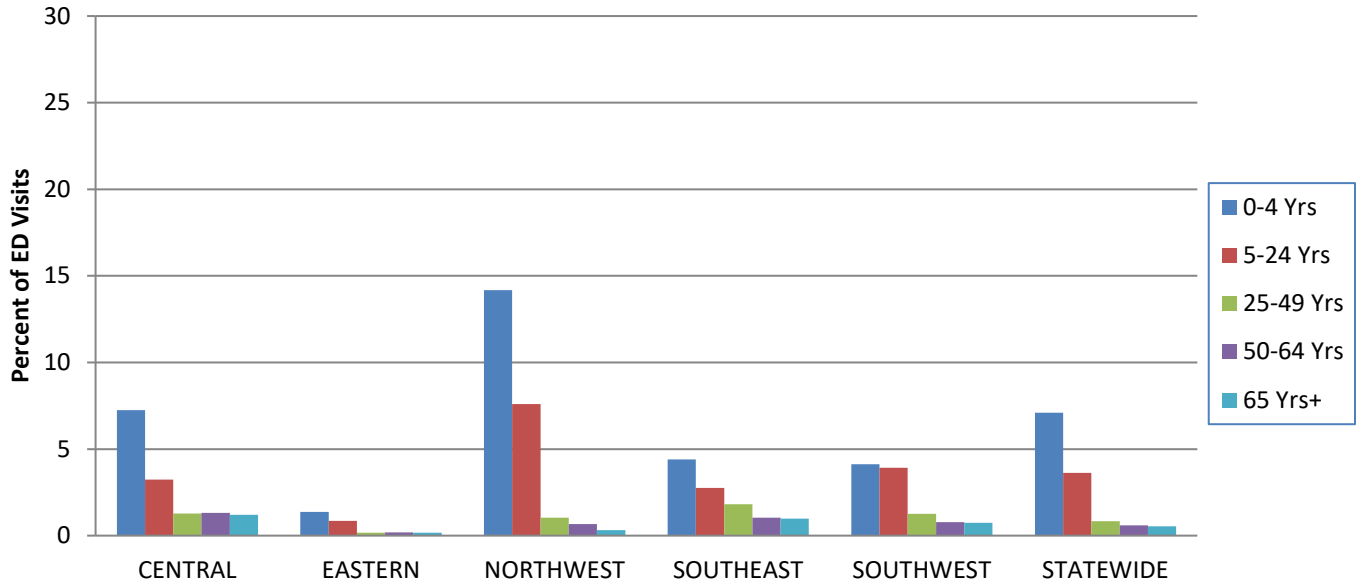
Data Source: National Respiratory and Enteric Virus Surveillance System (NREVSS), Centers for Disease Control and Prevention (CDC). 2021-2022 season-to-date through the week ending February 19, 2022 (Week 7).

**Figure 6. Percentage of Emergency Department (ED) Visits for Influenza-like Illness (ILI) in ESSENCE Participating Hospitals, 2018-2022 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.

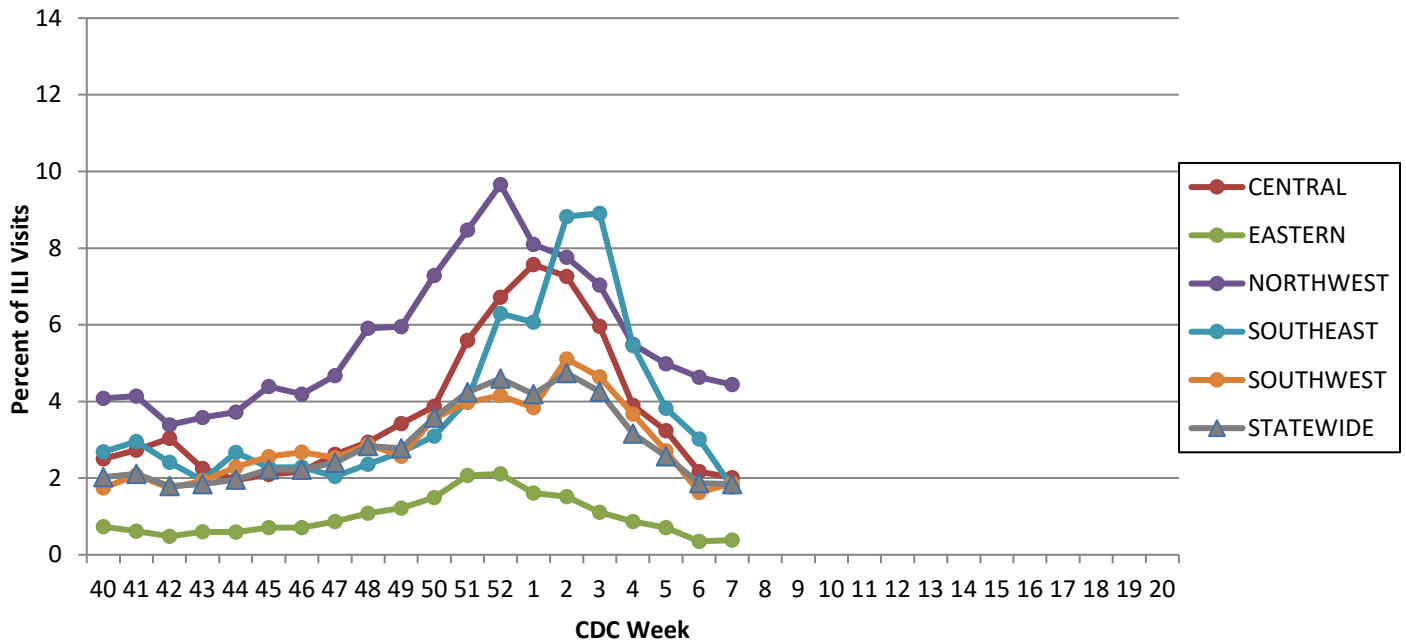
**Figure 7. Percentage of Emergency Department (ED) Visits for Influenza-like Illness (ILI) in ESSENCE Participating Hospitals, by Age Group, Region and Statewide, Week 7, 2021\***



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.

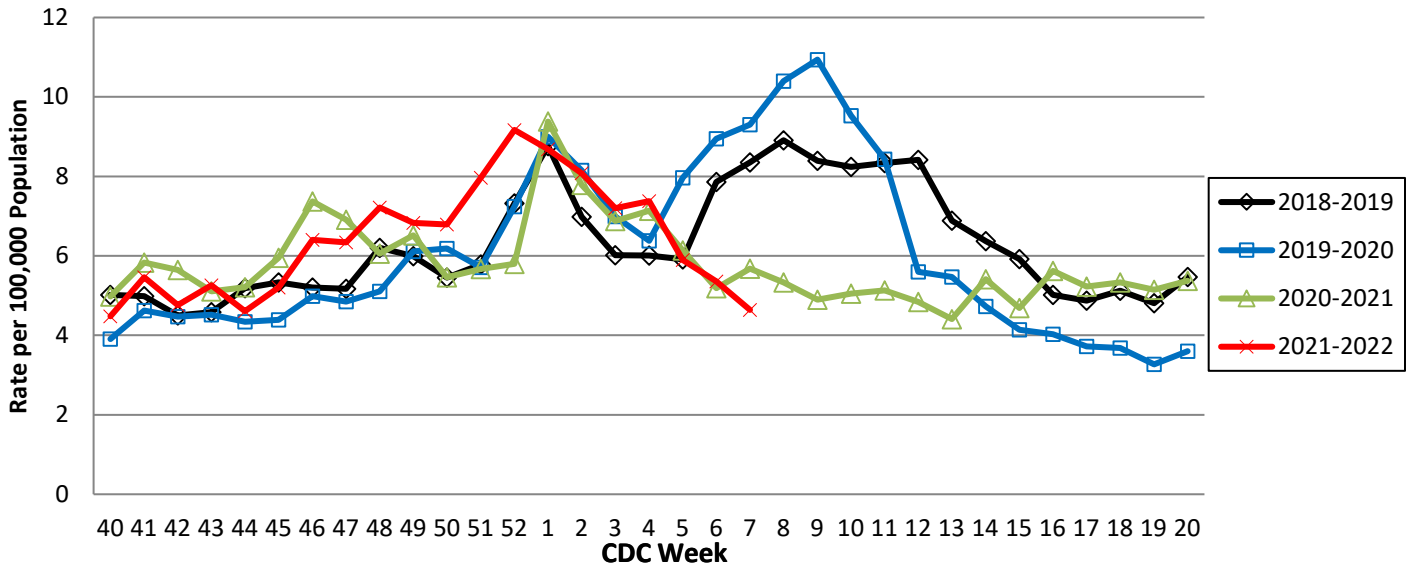
**Figure 8. Percentage of Emergency Department (ED) Visits for Influenza-like Illness (ILI) in ESSENCE Participating Hospitals, by Region and Statewide, 2021-2022 Influenza Season\***



Data Source: Missouri Department of Health and Senior Services (DHSS), Bureau of Reportable Disease Informatics, ESSENCE version 1.20.

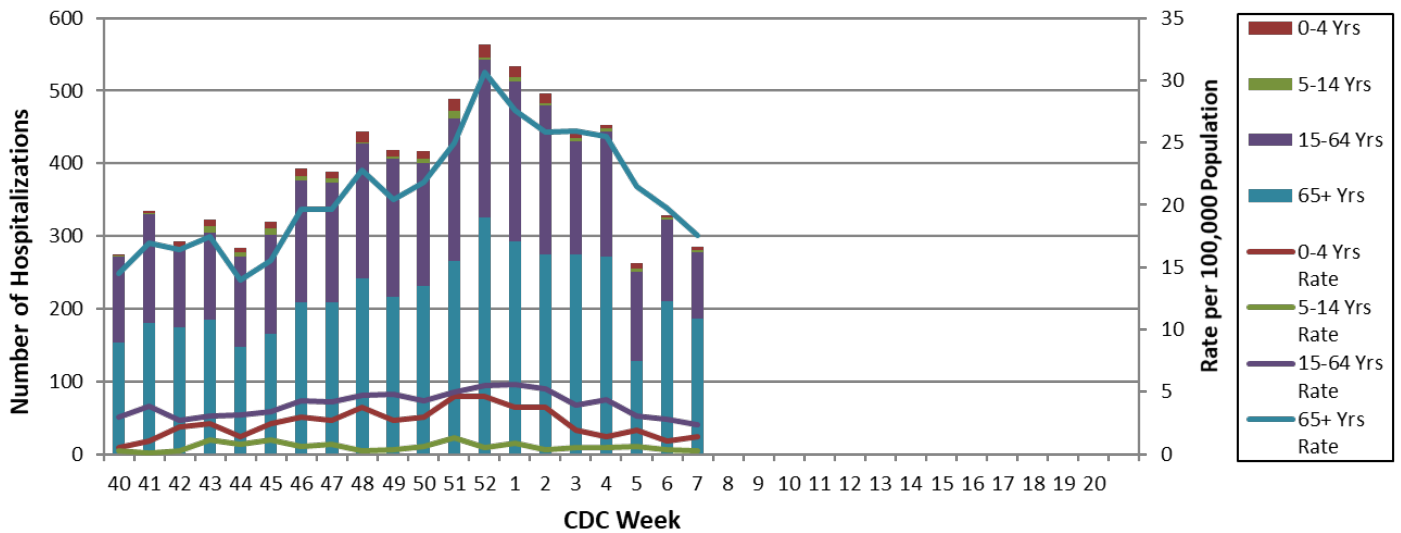
\*The ILI data from a small number of sites located in the Northwest Region of the state is temporarily unavailable in ESSENCE. Therefore, the ILI data for the Northwest Region should be interpreted with caution.

**Figure 9. Weekly Rate of Patients Hospitalized with Influenza and/or Pneumonia Syndromes in Missouri Hospitals, 2018-2022 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 7, 2021-2022 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/)