2022-2023 Influenza Surveillance Report

Week 50

Dec. 11 – Dec. 17, 2022

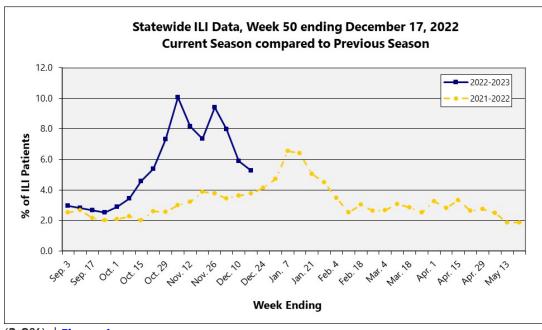
About our flu activity reporting

MSDH relies upon selected sentinel health practitioners across the state to report the percentage of total patient visits consistent with an influenza-like illness (ILI: fever of 100°F or higher AND cough and/or sore throat). Also, providers are supplied with specimen collection kits. Samples are submitted to the Mississippi Public Health Laboratory for influenza PCR testing. Reports are used to estimate the state's ILI rate and the magnitude of the state's influenza activity. Reports represent only the distribution of flu in the state, not an actual count of all flu cases statewide. *Information is provisional only and may change depending on additional reporting from sentinel providers.*

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State ILI Surveillance



During week
50 (12/11/2212/17/22), the
overall state ILI
rate (5.3%)
decreased
slightly from
the previous
week (5.9%)
and was higher
than this time
last year

(3.8%). | Figure 1

Total number of patients treated by sentinel providers in the last three weeks. | Table 1

2022-2023 Influenza Season						
CDC Week	Week Ending	Number of reports received from Sentinel Providers	Total patients	ILI symptoms	ILI Rate (%)	
50	Dec. 17	98	12815	673	5.3	
49	Dec. 10	98	13059	770	5.9	
48	Dec. 3	99	13943	1110	8.0	

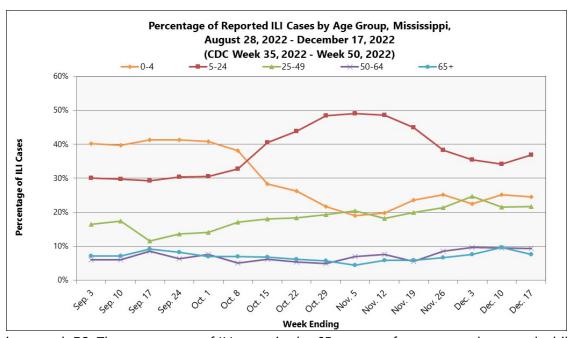
During week **50**, two districts (3 and 6) had an increase in ILI activity, while four districts (1, 2, 5, and 9) had a decrease.

Three districts (4, 7, and 8) remained about the same.

Information is provisional only and may change depending on additional reporting from sentinel providers. | **Table 2**



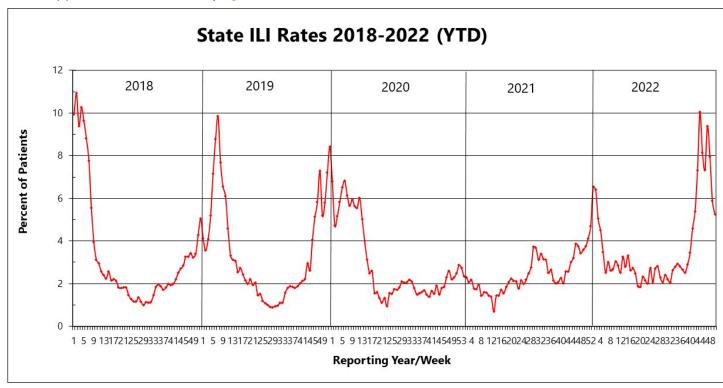
MSDH District ILI Rates (%) 2022-2023					
District	Week 49	Week 50			
State	5.9	5.3			
-	3.3	2.4			
П	11.3	8.1			
III	28.9	30.8			
IV	9.3	9.7			
V	7.6	5.4			
VI	3.7	6.1			
VII	5.6	5.6			
VIII	2.6	2.6			
IX	4.3	3.3			



Overall, the percentage of reported ILI cases has been highest among those in the **5-24 years** of age group. This trend continued

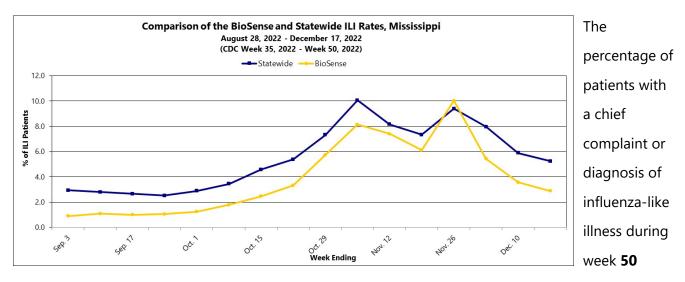
into week **50**. The percentage of ILI cases in the 65+ years of age group decreased while the percentage in the 5-24 years of age group increased when compared to the previous week. The percentage of ILI cases in the other age groups remained constant from the previous week. | Figure 2

Mississippi ILI Rates 2018-2022 | Figure 3



Syndromic ILI Surveillance

The Mississippi State Department of Health also collects influenza syndromic surveillance data through the CDC BioSense Platform. This data is comprised of chief complaints and diagnosis codes and is submitted electronically by participating hospitals and clinics throughout the state in near real-time. The BioSense data is an additional tool to monitor influenza activity in Mississippi.

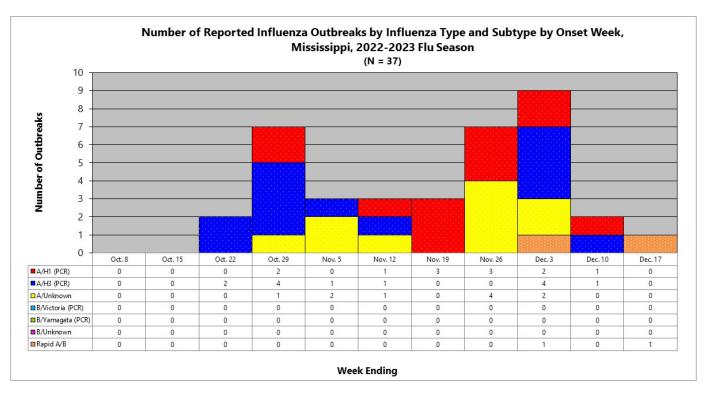


decreased from the previous week, as did the statewide ILI rate. Overall, the BioSense ILI rate appears to be following the same trend as the statewide ILI rate. | Figure 4

Influenza Outbreaks

Outbreaks are reportable in Mississippi as a Class 1A event and must be reported by telephone within **24 hours** of first knowledge or suspicion to the Mississippi State Department of Health. For more information on reportable diseases and conditions, please refer to the MSDH List of Reportable Diseases and Conditions.

Between week 40 (ending October 8, 2022) and week 50 (week ending December 17, 2022), 40 outbreaks were reported to MSDH. MSDH investigates all reported outbreaks, and of the 40 reported outbreaks, complete information was available for 37 of them. Twelve (32%) of the outbreaks were attributed to influenza A/H1, 13 (35%) were attributed to influenza A/H3, ten (27%) were attributed to an influenza A virus, unknown subtype, and two (5%) were due to an unknown influenza type. | Figure 5



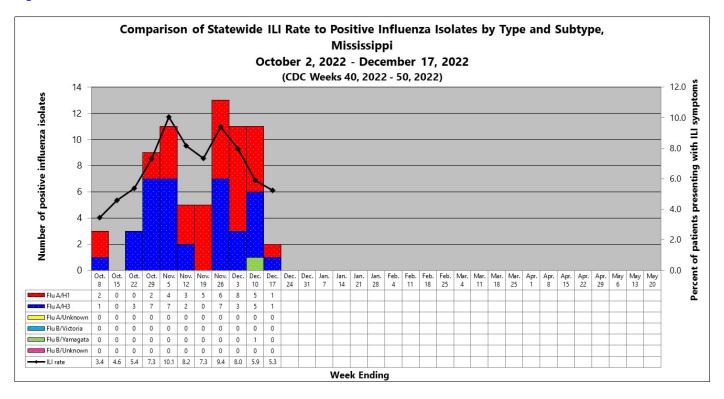
The influenza outbreaks have occurred in the following counties: Alcorn (1), Attala (1), Clarke (1), Forrest (3), Franklin (1), George (1), Hancock (1), Harrison (1), Hinds (2), Holmes (1), Humphreys (1), Jackson (1), Jefferson (1), Jones (2), Lafayette (3), Lauderdale (2), Leake (1), Lincoln (1), Lowndes (1), Marion (1), Monroe (1), Pearl River (1), Pontotoc (1), Rankin (3), Simpson (2), Walthall (1), Warren (1), Washington (2), and Yazoo (1).

For additional information on infection control measures in health care facilities and managing influenza outbreaks in long-term care facilities, please refer to the CDC's webpages: https://www.cdc.gov/flu/professionals/infectioncontrol/index.htm and https://www.cdc.gov/flu/professionals/infectioncontrol/ltc-facility-guidance.htm, respectively.

Flu Testing Reports

Since week 40 (week ending October 8th), **73** laboratory confirmed influenza samples have been identified by the MSDH Public Health Laboratory. Thirty-six (49%) were identified as influenza A/H1,

2022 - 2023 Influenza Season | Week 50 Influenza Surveillance Report | Dec. 11 – Dec. 17, 2022 36 (49%) were identified as influenza A/H3, and one (1%) was identified as influenza B/Yamagata. | Figure 6



The influenza cases were identified from the following counties: Alcorn (1), Attala (3), Forrest (8), Franklin (2), Hancock (3), Harrison (3), Hinds (10), Holmes (3), Jefferson (2), Jones (2), Lafayette (5), Lauderdale (2), Lincoln (3), Lowndes (2), Marion (1), Marshall (5), Monroe (1), Pearl River (3), Pontotoc (5), Rankin (4), Simpson (2), Walthall (1), and Washington (2).

National and Mississippi Pediatric Mortality Surveillance

Nationally, **47** influenza-associated pediatric deaths have been reported to CDC for the 2022-2023 season. Twenty-two deaths have been associated with an influenza A/H3 virus, four were associated with an influenza A/H1 virus, and 20 deaths were associated with an influenza A virus (not subtyped). One death was associated with an influenza B virus (not subtyped).

Mississippi has had **no** influenza-associated pediatric deaths reported during this influenza season.

For additional information on influenza-associated pediatric deaths, please refer to the CDC's FluView.

National ILI Surveillance

During week **50**, 6.3% of patients reported through ILINet presented with ILI symptoms. This was above the national baseline (2.5%).

All 10 HHS regions were above their respective baselines. The percentage of patients presenting with ILI symptoms **decreased** in Region 4 (Southeast) during week 50. Mississippi is included in Region 4.

2022 – 2023 Influenza Season | Week 50 Influenza Surveillance Report| Dec. 11 – Dec. 17, 2022 For additional information on flu activity nationwide, please refer to the CDC's website: http://www.cdc.gov/flu/weekly/fluactivitysurv.htm.

Additional influenza information:

Centers for Disease Control and Prevention	http://cdc.gov/flu/
Centers for Disease Control and Prevention FluView	http://www.cdc.gov/flu/weekly/
MSDH Flu	http://msdh.ms.gov/msdhsite/ static/14,0,199.html
World Health Organization FluNet	https://www.who.int/tools/flunet/flunet-summary

Appendix

Figure 1

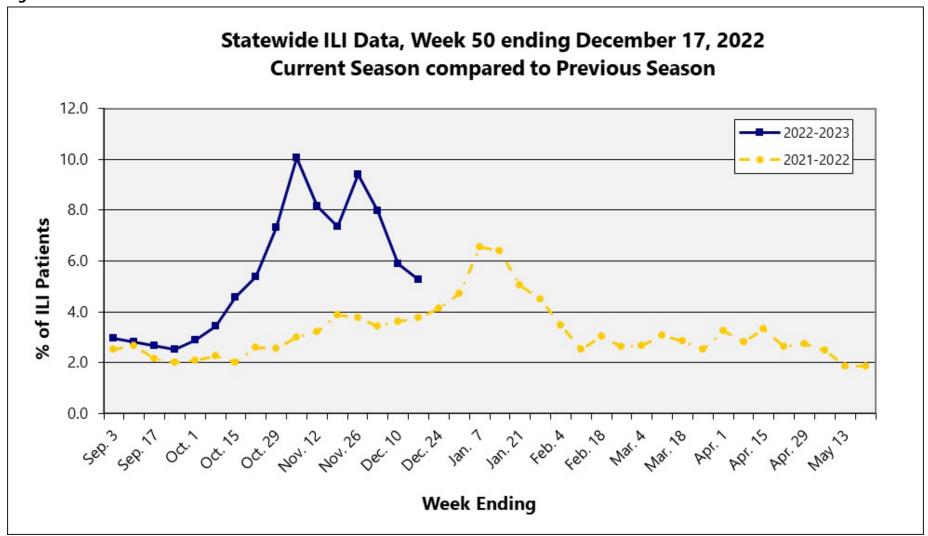


Figure 2

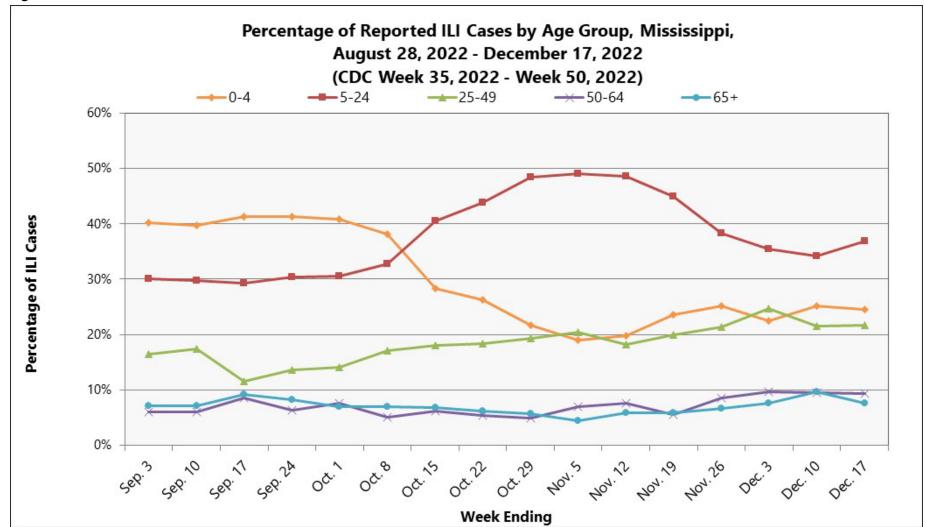


Figure 3

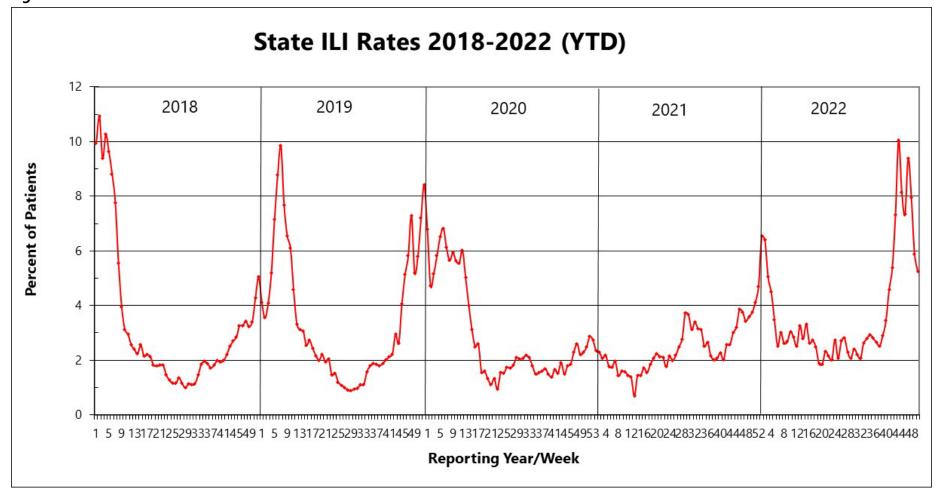


Figure 4

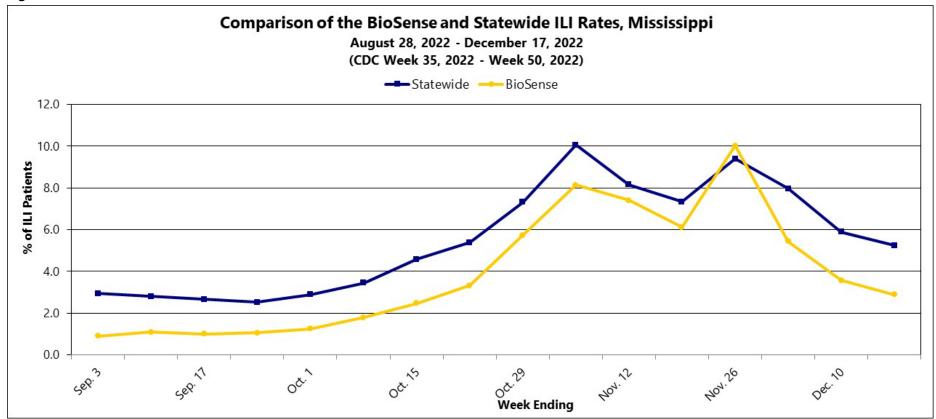


Figure 5

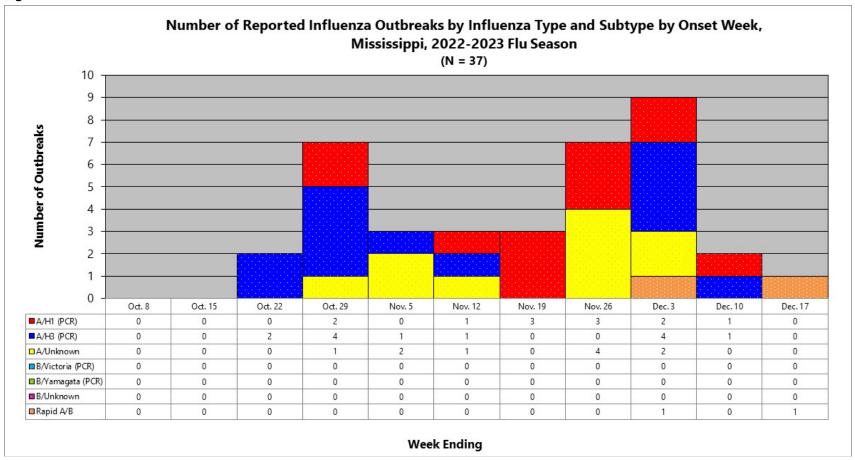


Figure 6

