2022-2023 Influenza Surveillance Report

Week 15

Apr. 9 – Apr. 15, 2023

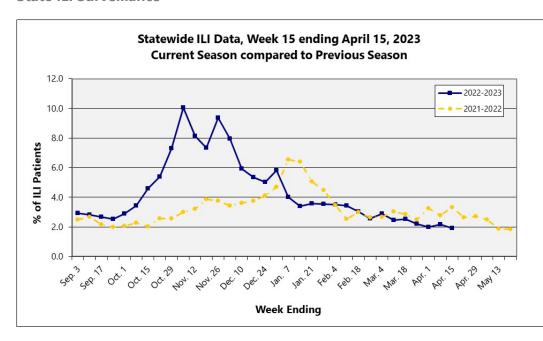
About our flu activity reporting

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 **15** (04/09/23-04/15/23), the overall state ILI rate (**1.9%**) was **comparable** to the previous week (**2.2%**) but was lower than this time last year (**3.3%**). | Figure 1

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

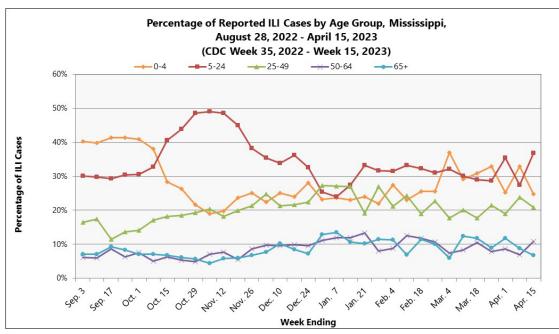
2022-2023 Influenza Season						
CDC Week	Week Ending	Number of reports received from Sentinel Providers	Total patients	ILI symptoms	ILI Rate (%)	
15	Apr. 15	94	12539	239	1.9	
14	Apr. 8	99	12643	273	2.2	
13	Apr. 1	99	12747	254	2.0	

During week **15**, two districts (2 and 3) had an increase in ILI activity, while two districts (6 and 7) had a decrease. Five districts (1, 4, 5, 8, and 9) remained about the same.

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



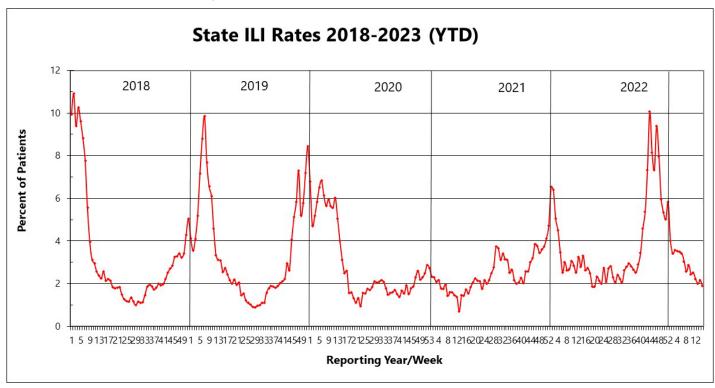
MSDH District ILI Rates (%) 2022-2023					
District	Week 14	Week 15			
State	2.2	1.9			
I	0.8	1.2			
П	2.4	4.4			
III	12.9	14.9			
IV	3.9	3.7			
V	1.6	1.3			
VI	4.6	1.9			
VII	3.7	2.2			
VIII	1.4	1.2			
IX	1.0	1.0			



Overall, the percentage of reported ILI cases has been highest among those in the **5-24 years** of age group. During week **15**, the percentage of

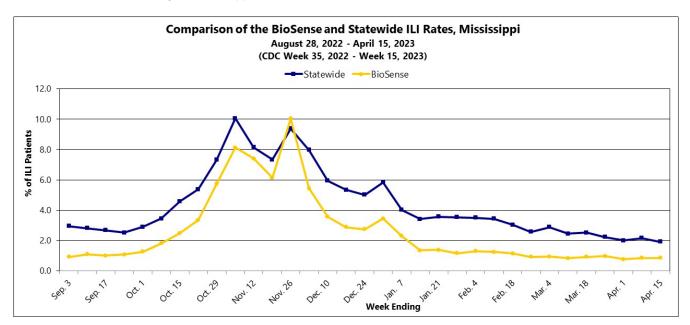
ILI cases in the 5-24 and 50-64 years of age groups increased, and decreased in the 0-4, 25-49, and 65+ years of age groups when compared to the previous week. | Figure 2

Mississippi ILI Rates 2018-2023 | 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.

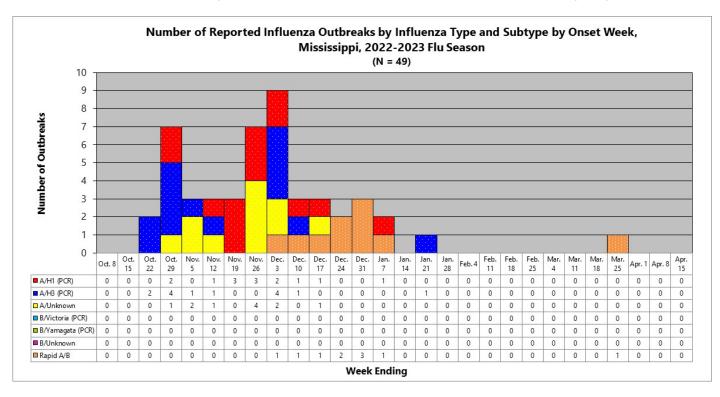


The percentage of patients with a chief complaint or diagnosis of influenza-like illness during week **15** was comparable to the previous week, as was the statewide ILI rate. Overall, the BioSense ILI rate appears to be following the same trend as the statewide ILI rate. | Figure 4

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 **15** (week ending April 15, 2023), 51 outbreaks were reported to MSDH. MSDH investigates all reported outbreaks, and of the 51 reported outbreaks, complete information was available for 49 of them. Fourteen (29%) of the outbreaks were attributed to influenza A/H1, 14 (29%) were attributed to influenza A/H3, 11 (22%) were attributed to an influenza A virus, unknown subtype, and ten (20%) were due to an unknown influenza type. | Figure 5



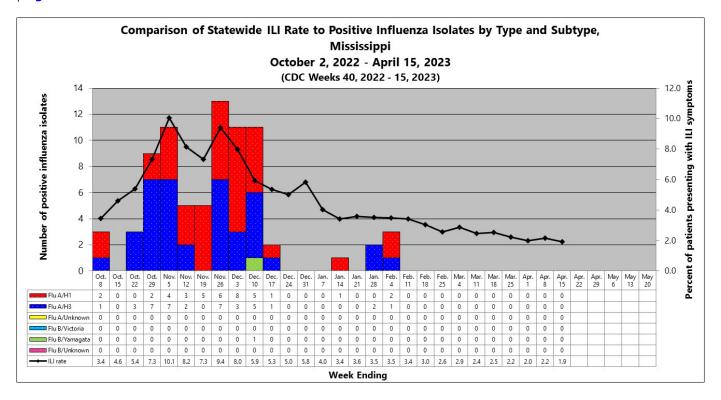
The influenza outbreaks have occurred in the following counties: Alcorn (1), Attala (1), Clarke (2), Covington (1), Forrest (3), Franklin (1), George (1), Hancock (1), Harrison (1), Hinds (3), Holmes (1), Humphreys (1), Jackson (1), Jefferson (1), Jones (3), Kemper (1), Lafayette (3), Lauderdale (2), Leake (1), Lee (1), Lincoln (1), Lowndes (1), Marion (1), Monroe (1), Neshoba (1), Pearl River (2), Perry (1), Pontotoc (2), Rankin (3), Scott (1), 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), **79** laboratory confirmed influenza samples have been identified by the MSDH Public Health Laboratory. Thirty-nine (49%) were identified as influenza A/H1, 39 (49%) were identified as influenza A/H3, and one (1%) was identified as influenza B/Yamagata. The

2022 – 2023 Influenza Season | Week 15 Influenza Surveillance Report| Apr. 09 – Apr. 15, 2023 last positive influenza samples identified by MSDH occurred in week 5 (week ending February 4, 2023) | Figure 6



The influenza cases were identified from the following counties: Alcorn (1), Attala (3), Forrest (8), Franklin (2), Hancock (3), Harrison (3), Hinds (13), Holmes (3), Jefferson (2), Jones (2), Lafayette (5), Lauderdale (2), Lincoln (3), Lowndes (2), Marion (1), Marshall (5), Monroe (1), Pearl River (5), Perry (1), Pontotoc (5), Rankin (4), Simpson (2), Walthall (1), and Washington (2).

National and Mississippi Pediatric Mortality Surveillance

Nationally, **143** influenza-associated pediatric deaths have been reported to CDC for the 2022-2023 season. Fifty-nine deaths have been associated with an influenza A/H3 virus, 14 were associated with an influenza A/H1 virus, one was associated with a coinfection of an influenza A/H1 virus and an influenza A/H3 virus, and 65 deaths were associated with an influenza A virus (not subtyped). Four deaths were 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 **15**, 2.0% of patients reported through ILINet presented with ILI symptoms. This was below the national baseline (2.5%) and decreased when compared to week 14.

Nine of the 10 HHS regions were below their respective baselines, including Region 4 (Southeast). The percentage of patients presenting with ILI symptoms **remained stable** in Region 4 during week **15**. Mississippi is included in Region 4.

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

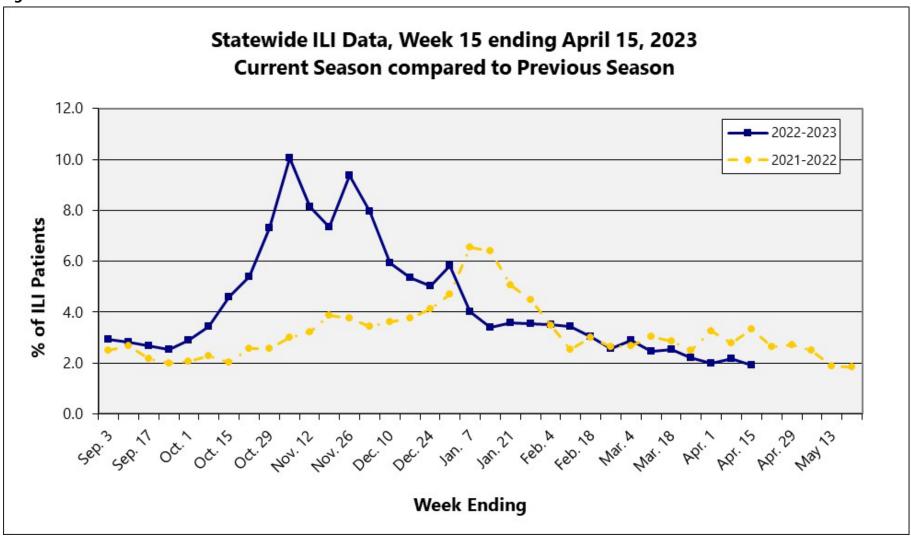


Figure 2

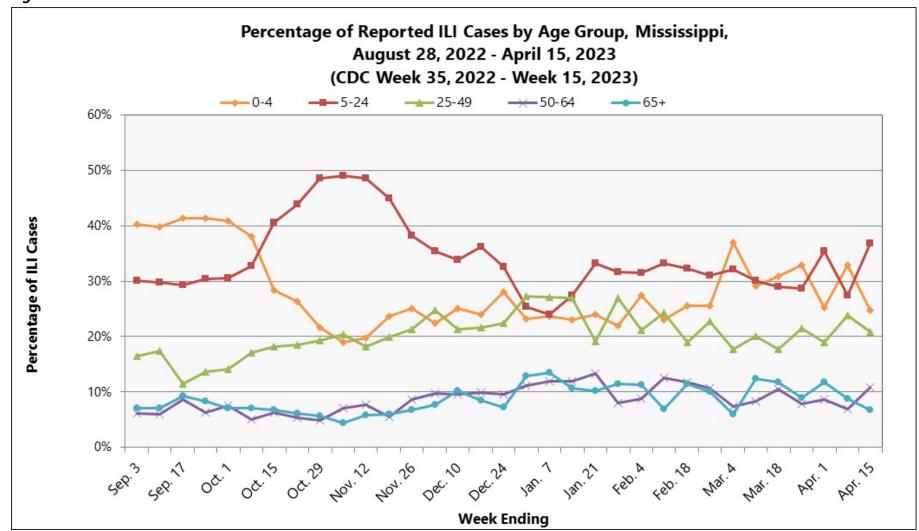


Figure 3

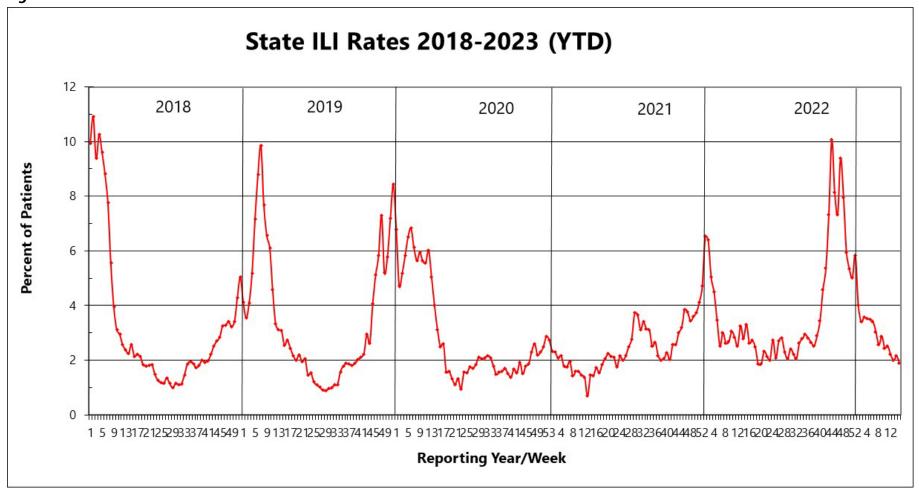


Figure 4

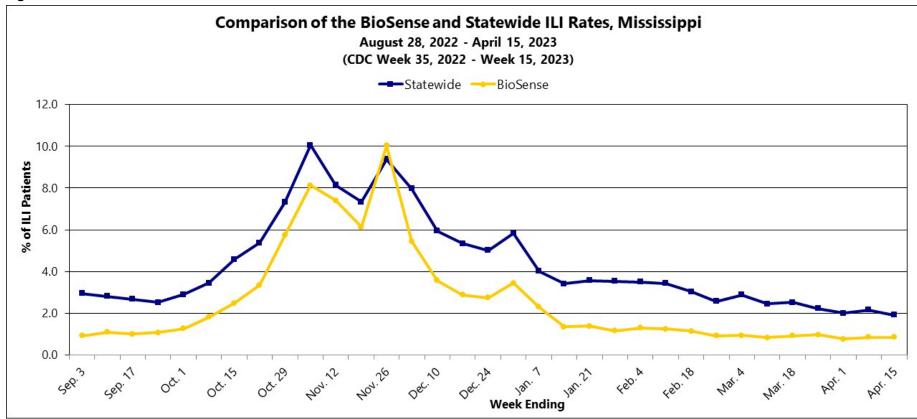


Figure 5

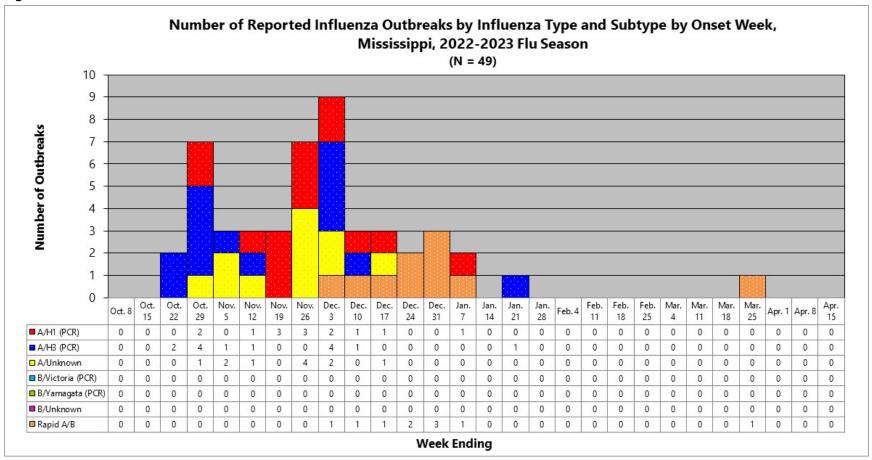


Figure 6

