2018-2019 Influenza Surveillance Report

Week 41

Oct. 7 – Oct. 13, 2018

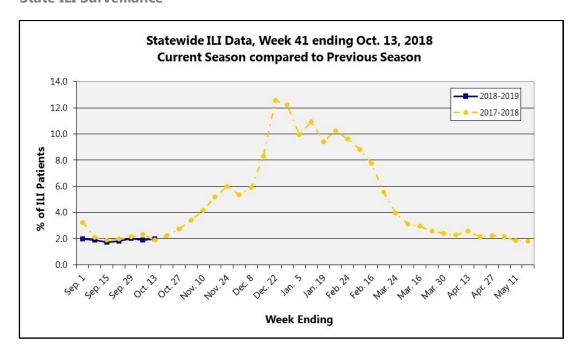
About our flu activity reporting

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 **41** (10/07/18-10/13/18), the overall state ILI rate (**2.0%**) was **comparable** to the previous week (**1.9%**) and to this time last year (**1.9%**).

| Figure 1

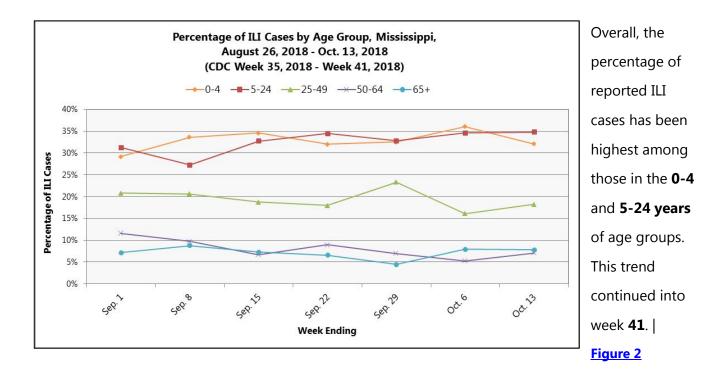
Total number of patients treated by sentinel providers in the last three weeks. | Table 1

2018-2019 Influenza Season						
CDC Week	Week Ending	Number of reports received from Sentinel Providers	Total patients	ILI symptoms	ILI Rate (%)	
41	Oct. 13	146	14988	296	2.0	
40	Oct. 6	129	18039	341	1.9	
39	Sept. 29	135	18018	360	2.0	

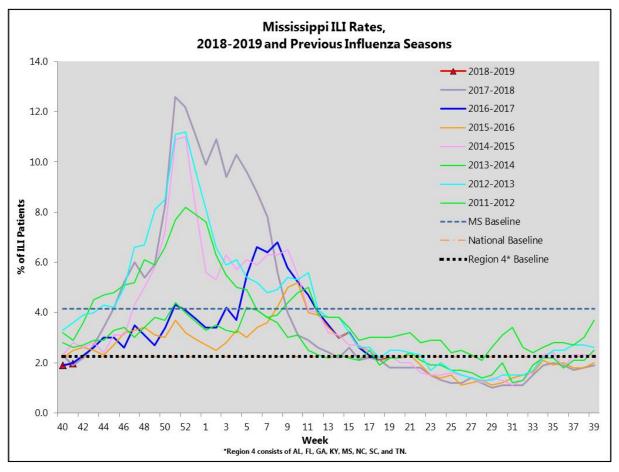
During week **41**, one district (7) had an increase in ILI activity, while two districts (3 and 8) had a decrease. The remaining six districts (1, 2, 4, 5, 6 and 9) remained about the same. Information is provisional only and may change depending on additional reporting from sentinel providers. | **Table 2**



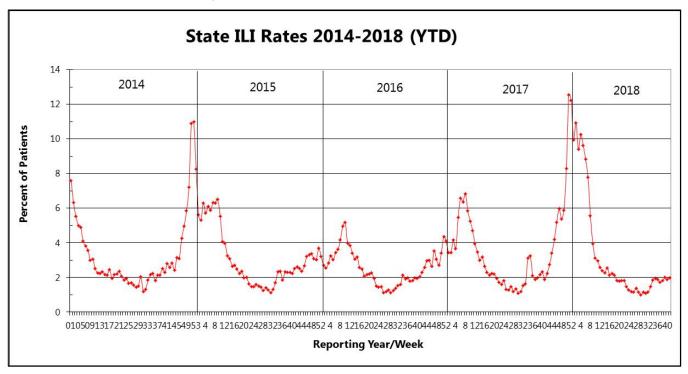
MSDH District ILI Rates (%) 2018-2019				
District	Week 40	Week 41		
State	1.9	2.0		
I	1.3	1.2		
II	2.7	2.5		
III	2.6	2.1		
IV	1.7	1.8		
V	1.6	1.6		
VI	1.9	2.1		
VII	1.7	2.3		
VIII	2.7	1.6		
IX	1.8	2.3		



The 2018-19 state ILI rate was **comparable** to the national and Region 4 baselines, but was **below** the state baseline, for week **41**. | Figure 3

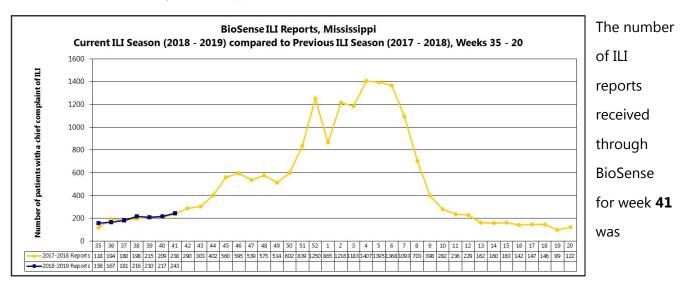


Mississippi ILI Rates 2014-2018 | Figure 4



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 complaint 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.



comparable to the reports received this time last year. | Figure 5

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.

No influenza outbreaks were reported to MSDH during week **41** (week ending October 13th).

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

During week **41** (week ending October 13th), there were no laboratory confirmed influenza cases identified by MSDH Public Health Laboratory.

National and Mississippi Pediatric Mortality Surveillance

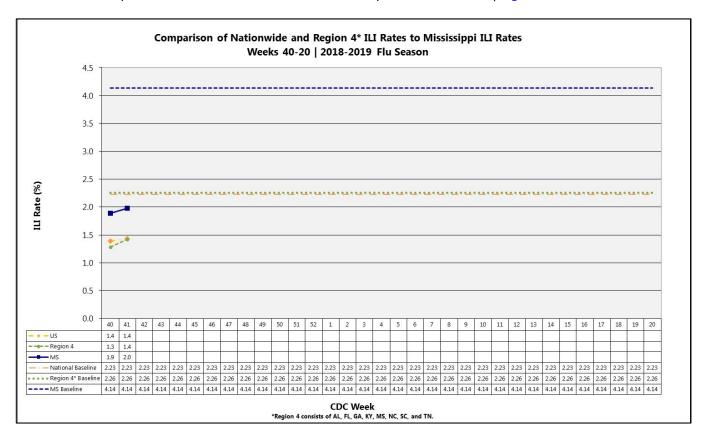
Nationally, the **first** influenza-associated pediatric death of the 2018-2019 season was reported to CDC during week **41**. This death was associated with an influenza A virus for which no subtyping was performed and occurred during week 40 (week ending October 6, 2018).

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

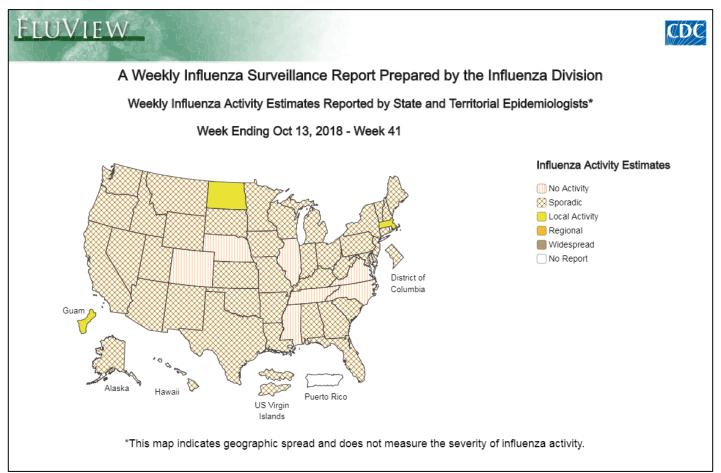
For additional information on influenza-associated pediatric deaths, please refer to the CDC's FluView.

National ILI Surveillance

During week **41**, the Mississippi (2.0%), national (1.4%) and Region 4 (1.4%) ILI rates remained about the same as the previous week and were below their respective baselines. | Figure 6



During week **41**, influenza activity **remained low** in the United States. ¹ | Figure 7



¹For up-to-date information on flu activity nationwide, please refer to the CDC's website: http://www.cdc.gov/flu/weekly/fluactivitysurv.htm.

Mississippi reported "No Activity" for the influenza activity during week 41. | Table 3

Level of Flu Activity	Definition	
No Activity	Overall clinical activity remains low and there are no lab confirmed cases.	
Sporadic	Isolated cases of lab confirmed influenza in the state; ILI activity is not increased <u>OR</u> A lab-confirmed outbreak in a single institution in the state; ILI activity is not increased.	
Local	Increased ILI within a single region AND recent (within the past 3 weeks) laboratory evidence of influenza in that region. ILI activity in other regions is not increased <u>OR</u> two of more institutional outbreaks (ILI or lab confirmed) within a single region AND recent (within the past 3 weeks) lab confirmed influenza in that region. Other regions do not have increased ILI and virus activity is no greater than sporadic in those regions	
Regional	Increased ILI in at least 2 regions but fewer than half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the affected regions <u>OR</u> Institutional outbreaks (ILI or lab confirmed) in at least 2 regions but fewer than half of the regions AND recent lab confirmed influenza in the affected regions.	
Widespread	Increased ILI and/or institutional outbreaks (ILI or lab confirmed) in at least half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the state.	

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 and Pneumonia	http://msdh.ms.gov/msdhsite/ static/14,0,199.html
World Health Organization FluNet	http://www.who.int/influenza/gisrs laboratory/flunet/en/

Appendix

Figure 1

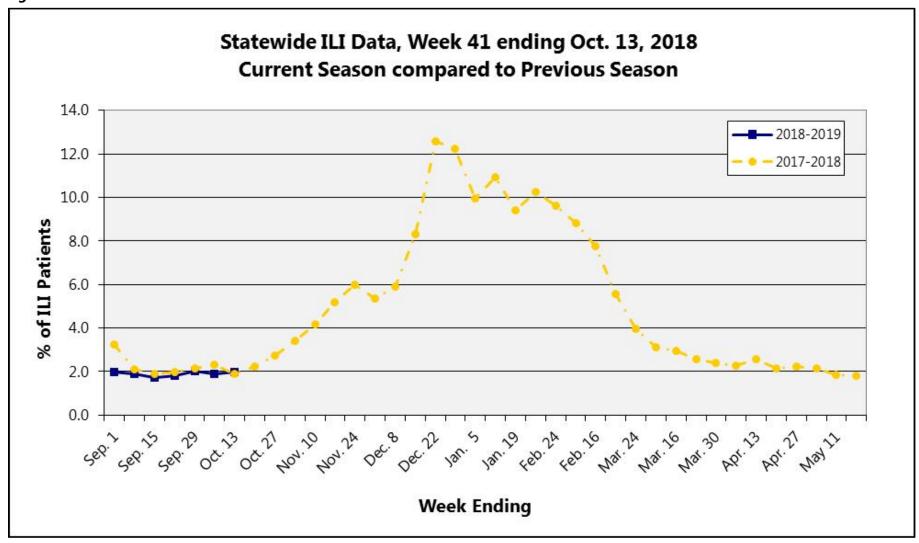


Figure 2

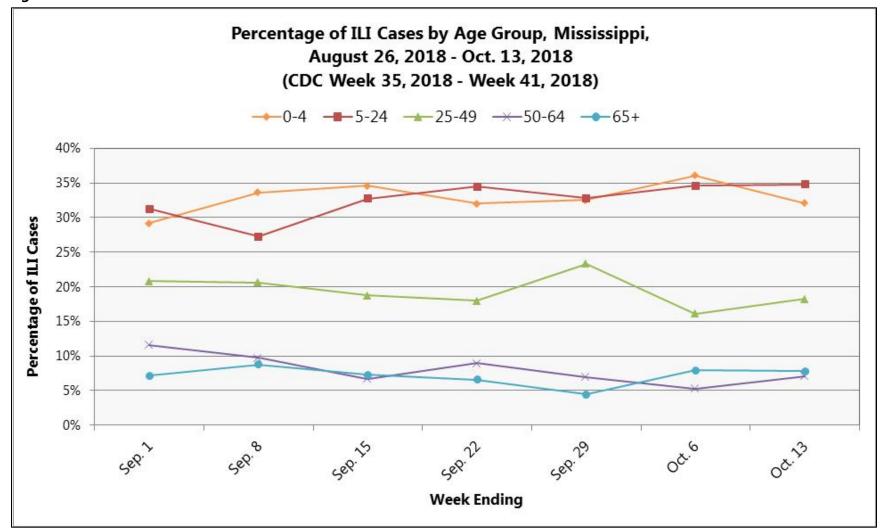


Figure 3

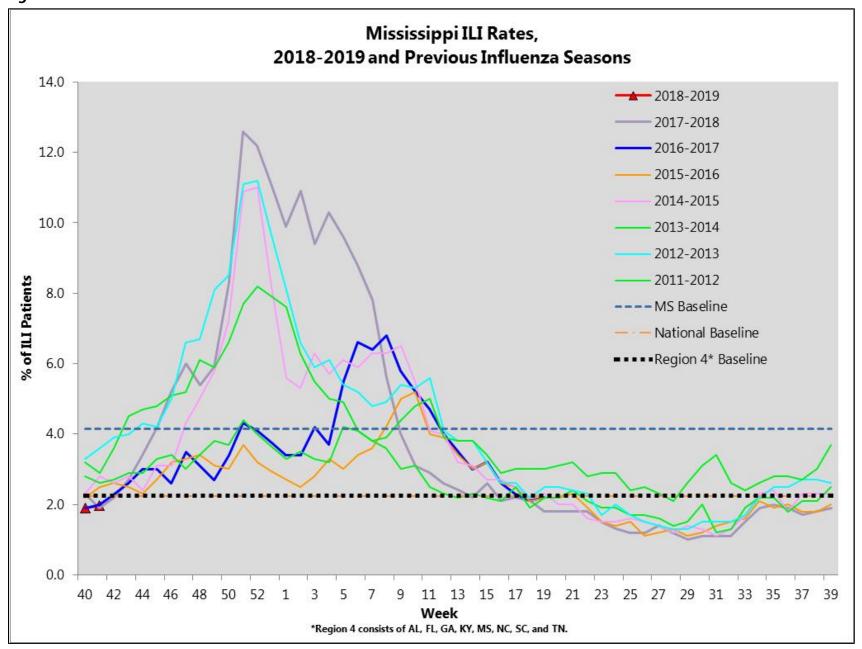


Figure 4

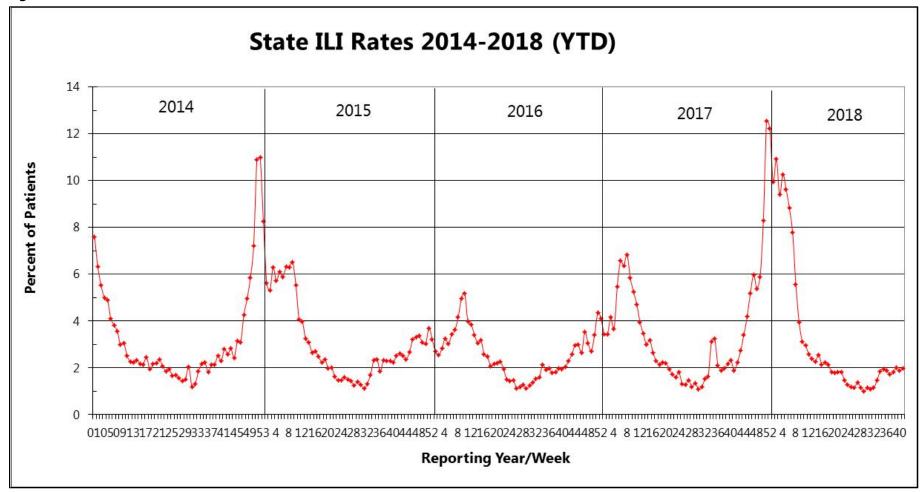


Figure 5

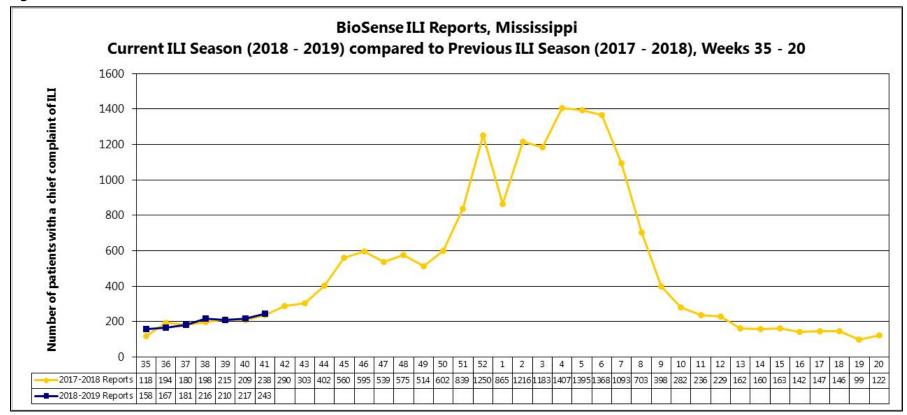


Figure 6

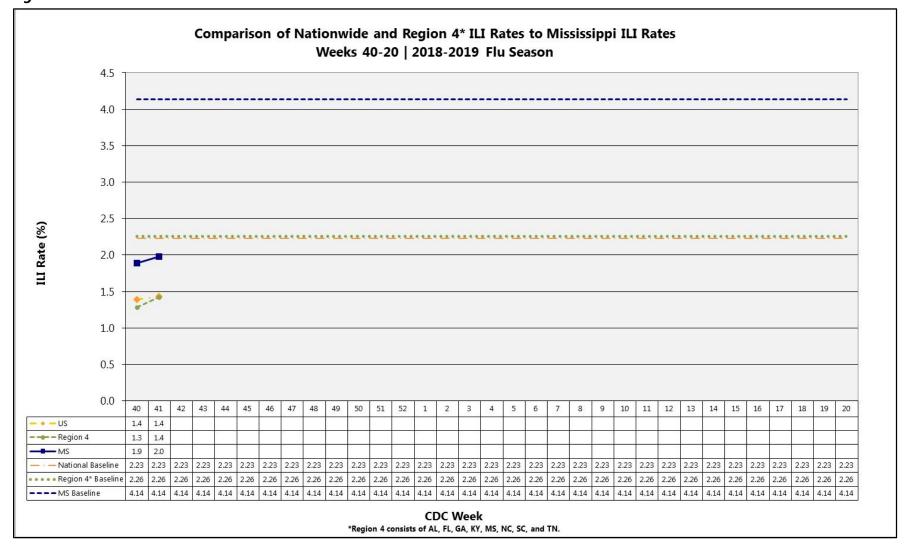


Figure 7

