



2018-2019 Influenza Surveillance Report

Week 42

Oct. 14 – Oct. 20, 2018

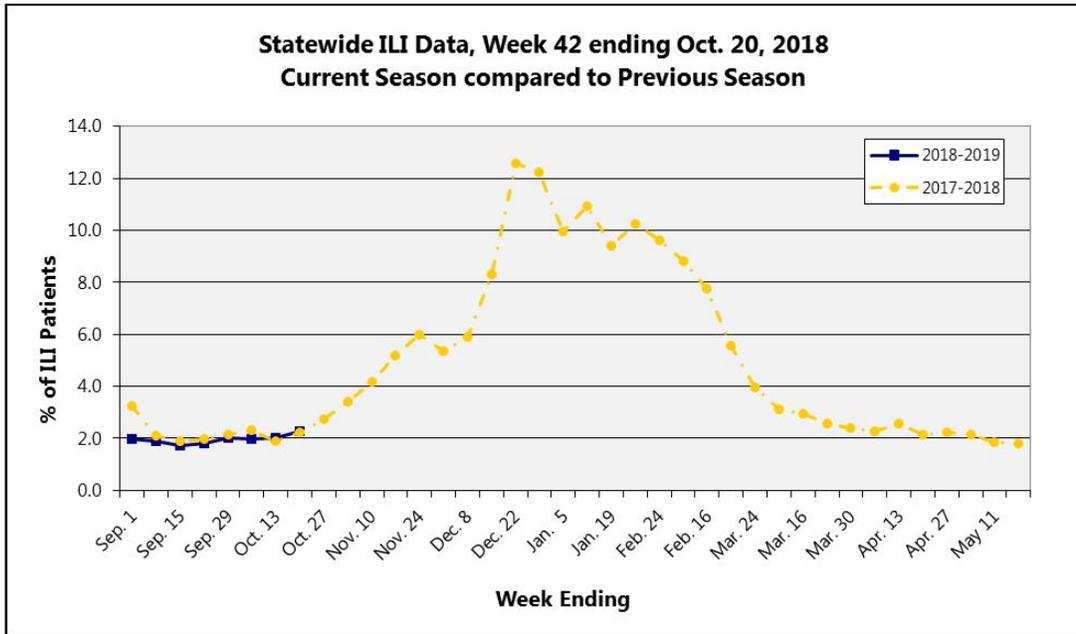
About our flu activity reporting

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

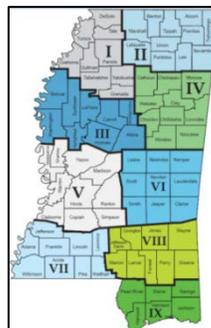


During week **42** (10/14/18-10/20/18), the overall state ILI rate (**2.3%**) was **comparable** to the previous week (**2.0%**) and to this time last year (**2.2%**). | [Figure 1](#)

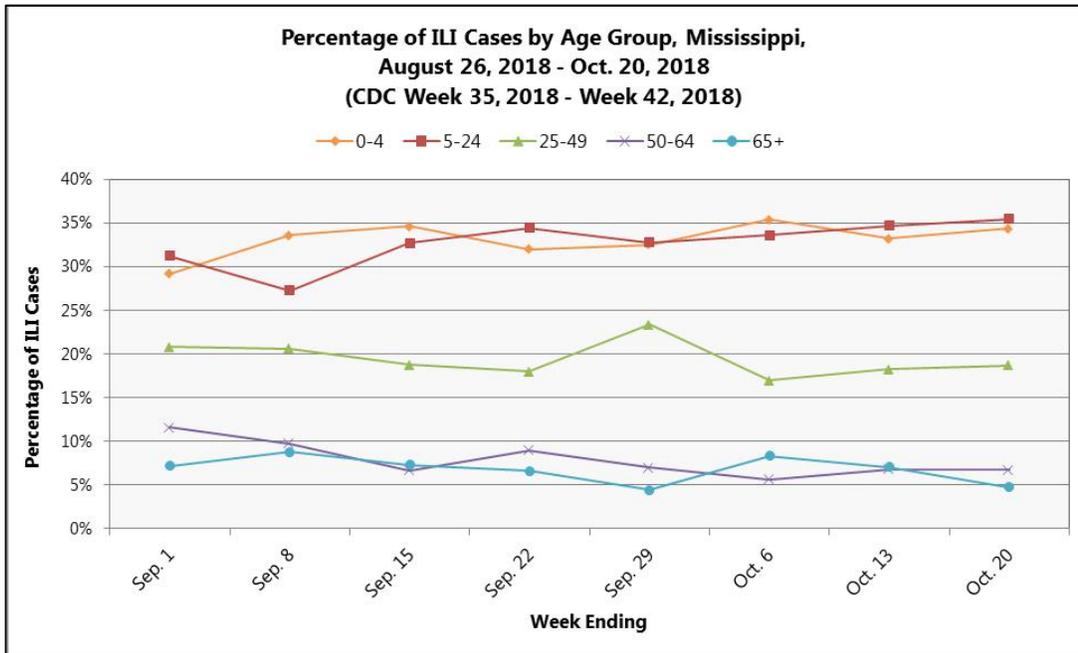
Total number of patients treated by sentinel providers in the last three weeks. | **Table 1**

2018-2019 Influenza Season					
CDC Week	Week Ending	Number of reports received from Sentinel Providers	Total patients	ILI symptoms	ILI Rate (%)
42	Oct. 20	150	15716	358	2.3
41	Oct. 13	149	16712	340	2.0
40	Oct. 6	128	17084	336	2.0

During week **42**, one district (5) had an increase in ILI activity, while two districts (1 and 3) had a decrease. The remaining six districts (2, 4, 6, 7, 8, and 9) remained about the same. *Information is provisional only and may change depending on additional reporting from sentinel providers.* | **Table 2**



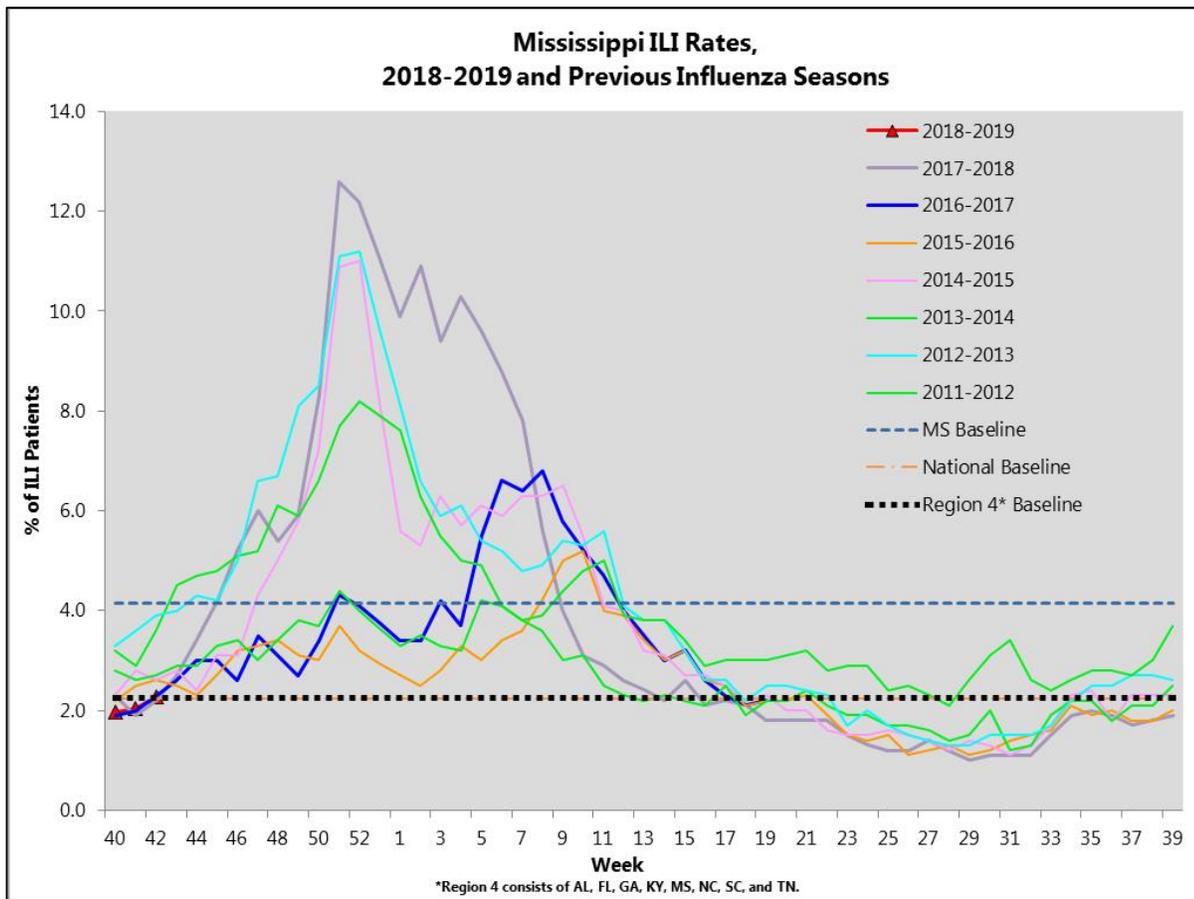
MSDH District ILI Rates (%) 2018-2019		
District	Week 41	Week 42
State	2.0	2.3
I	1.9	0.4
II	2.5	2.4
III	2.1	1.3
IV	2.2	2.2
V	1.6	2.4
VI	2.1	1.9
VII	2.3	2.7
VIII	1.6	2.0
IX	2.3	2.5



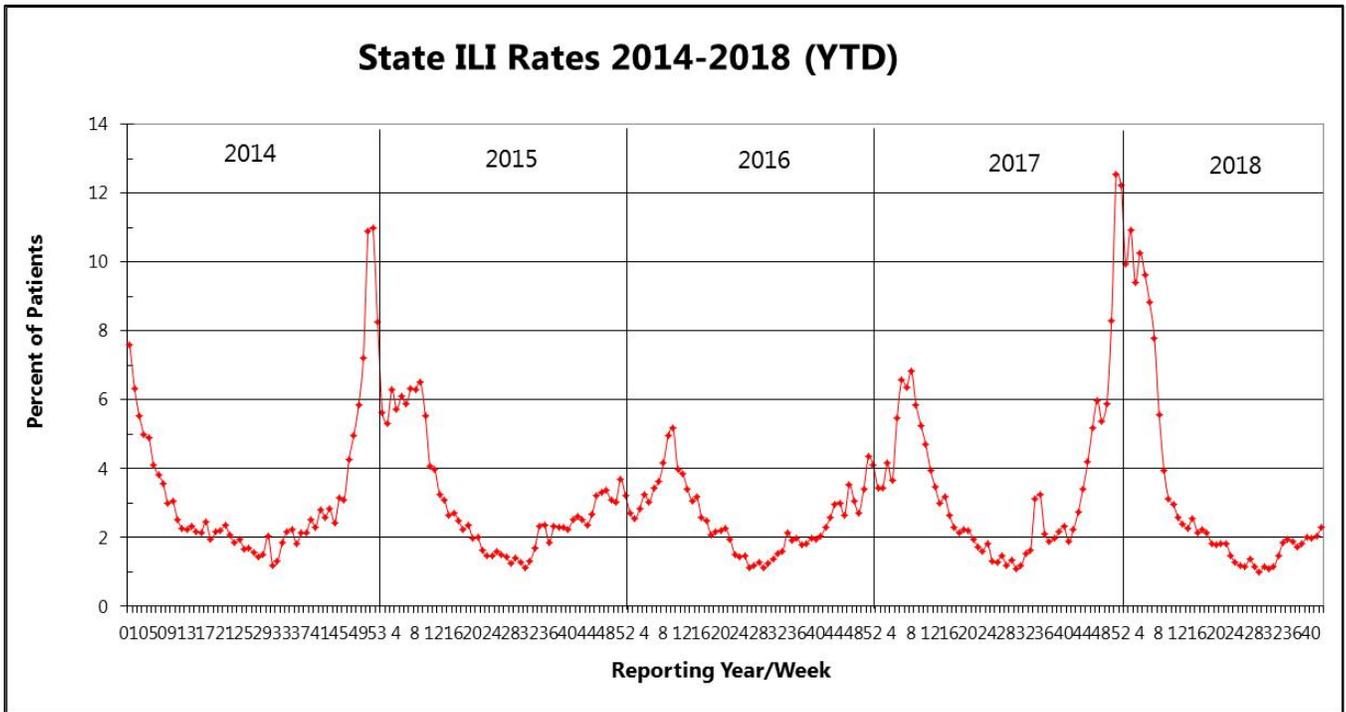
Overall, the percentage of reported ILI cases has been highest among those in the **0-4** and **5-24 years** of age groups. This trend continued into week **42**.

Figure 2

The 2018-19 state ILI rate was **comparable** to the national and Region 4 baselines, but was **below** the state baseline, for week **42**. | **Figure 3**

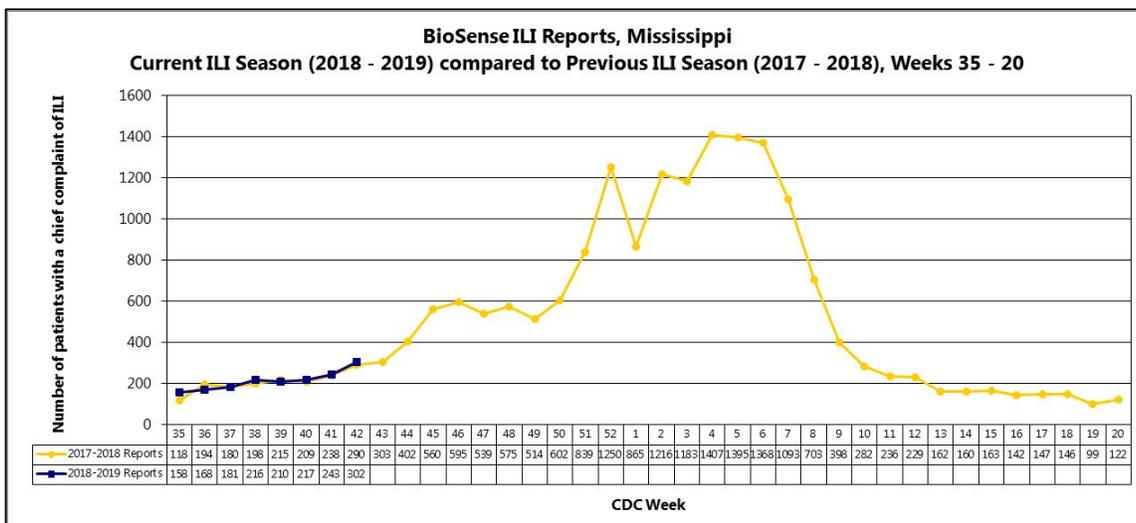


Mississippi ILI Rates 2014-2018 | [Figure 4](#)



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 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 number of ILI reports received through BioSense for week 42 was

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 **42** (week ending October 20th).

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 **42** (week ending October 20th), there were no laboratory confirmed influenza cases identified by MSDH Public Health Laboratory.

National and Mississippi Pediatric Mortality Surveillance

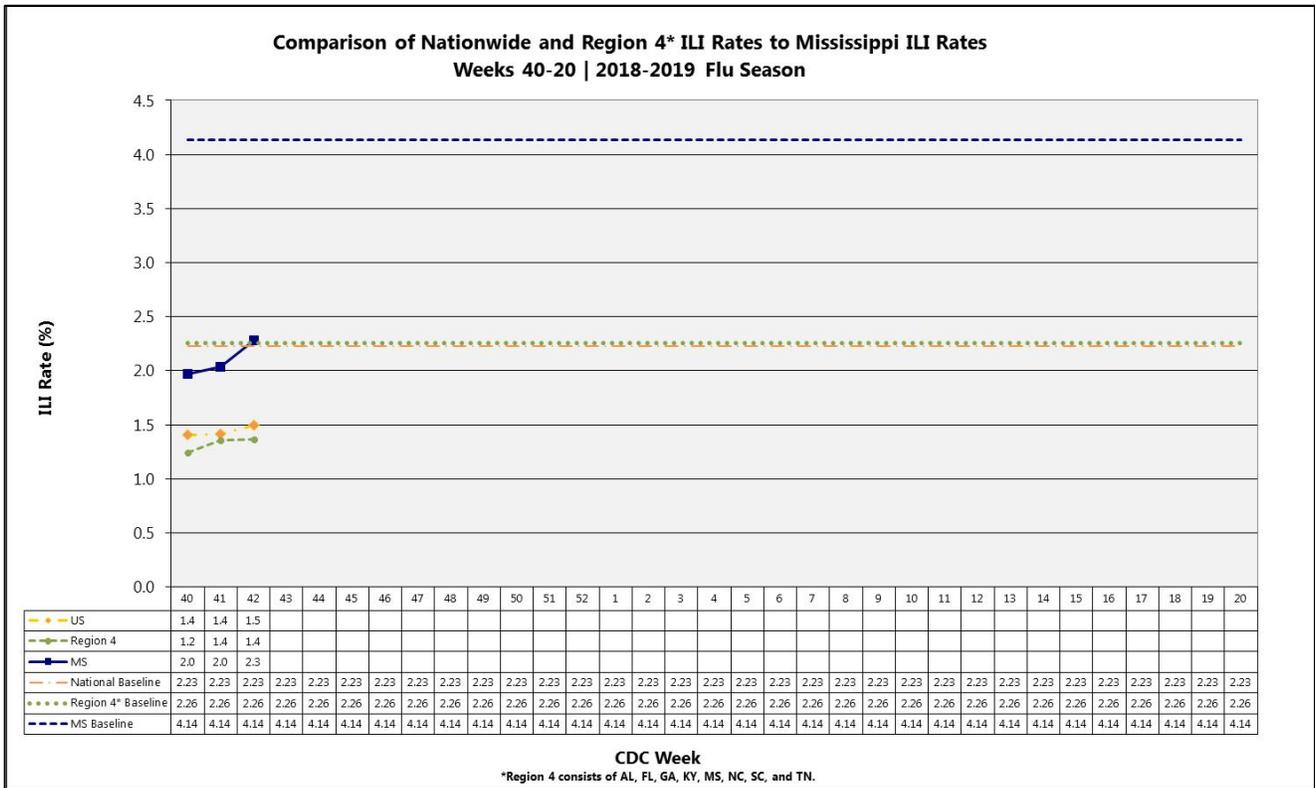
Nationally, **no** influenza-associated pediatric deaths were reported to CDC during week **42**. One influenza-associated pediatric death has been reported to CDC for the 2018-2019 season.

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 **42**, the Mississippi (2.3%), national (1.5%) and Region 4 (1.4%) ILI rates remained about the same as the previous week and were below their respective baselines. | [Figure 6](#)



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

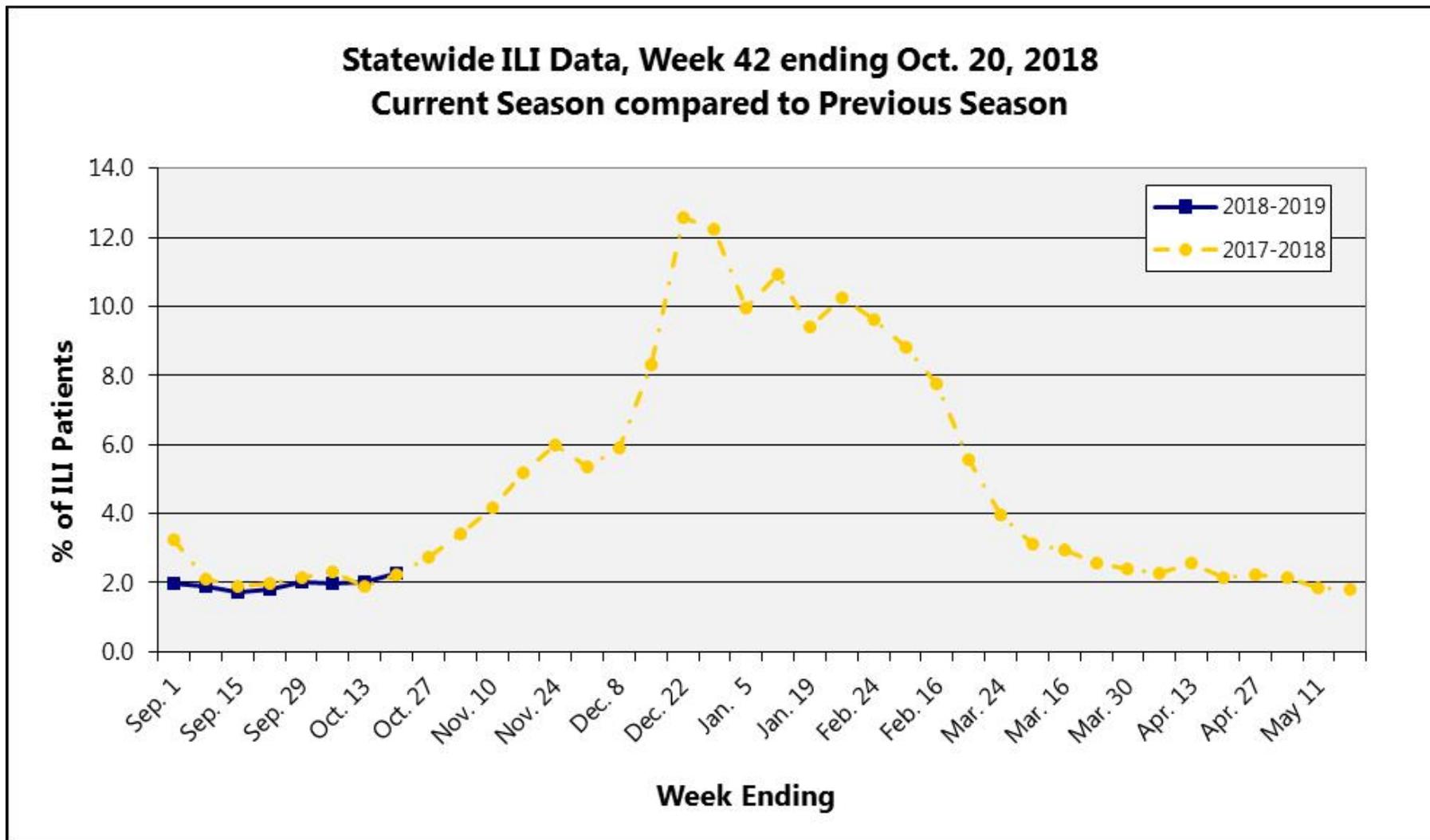


Figure 2

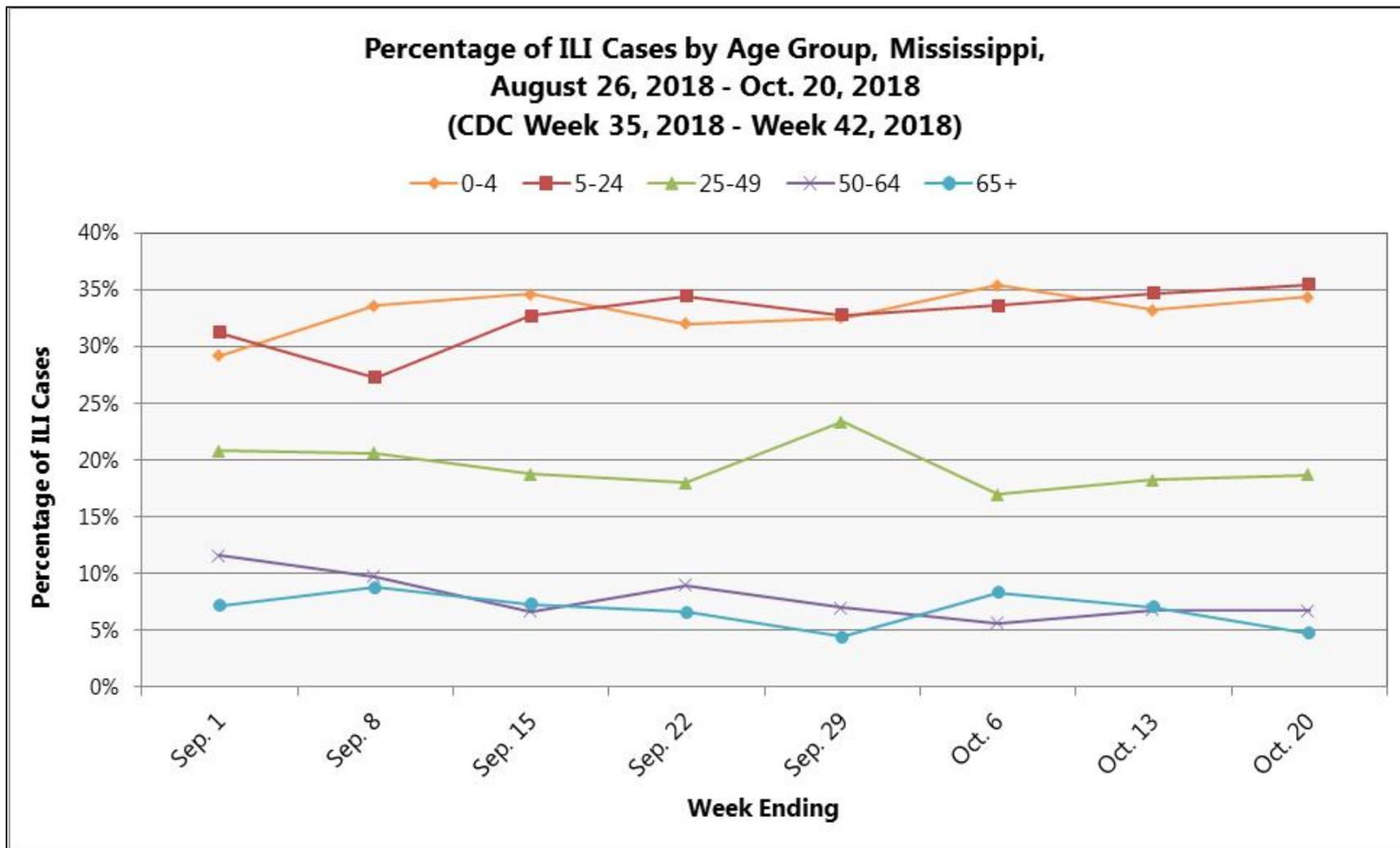


Figure 3

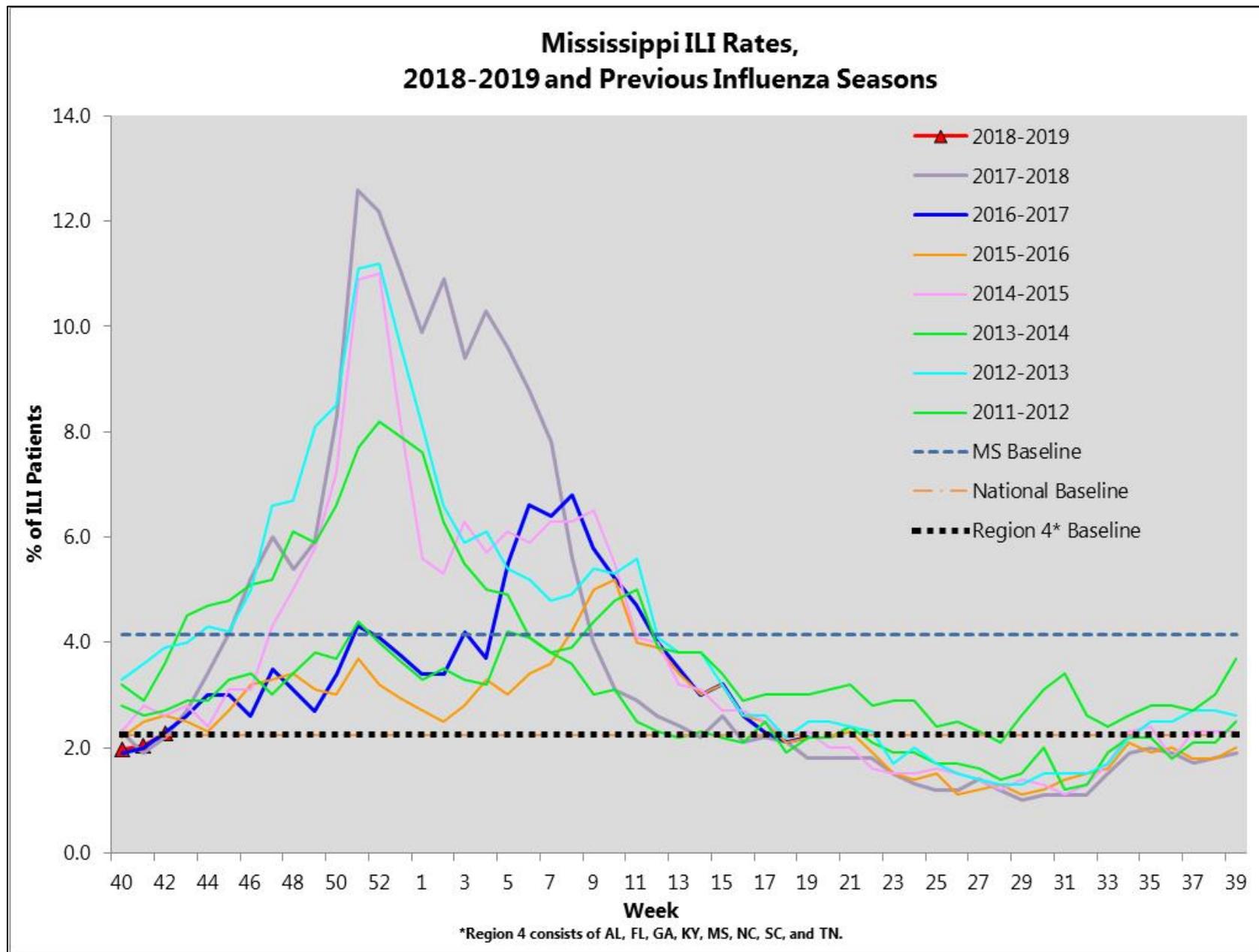


Figure 4

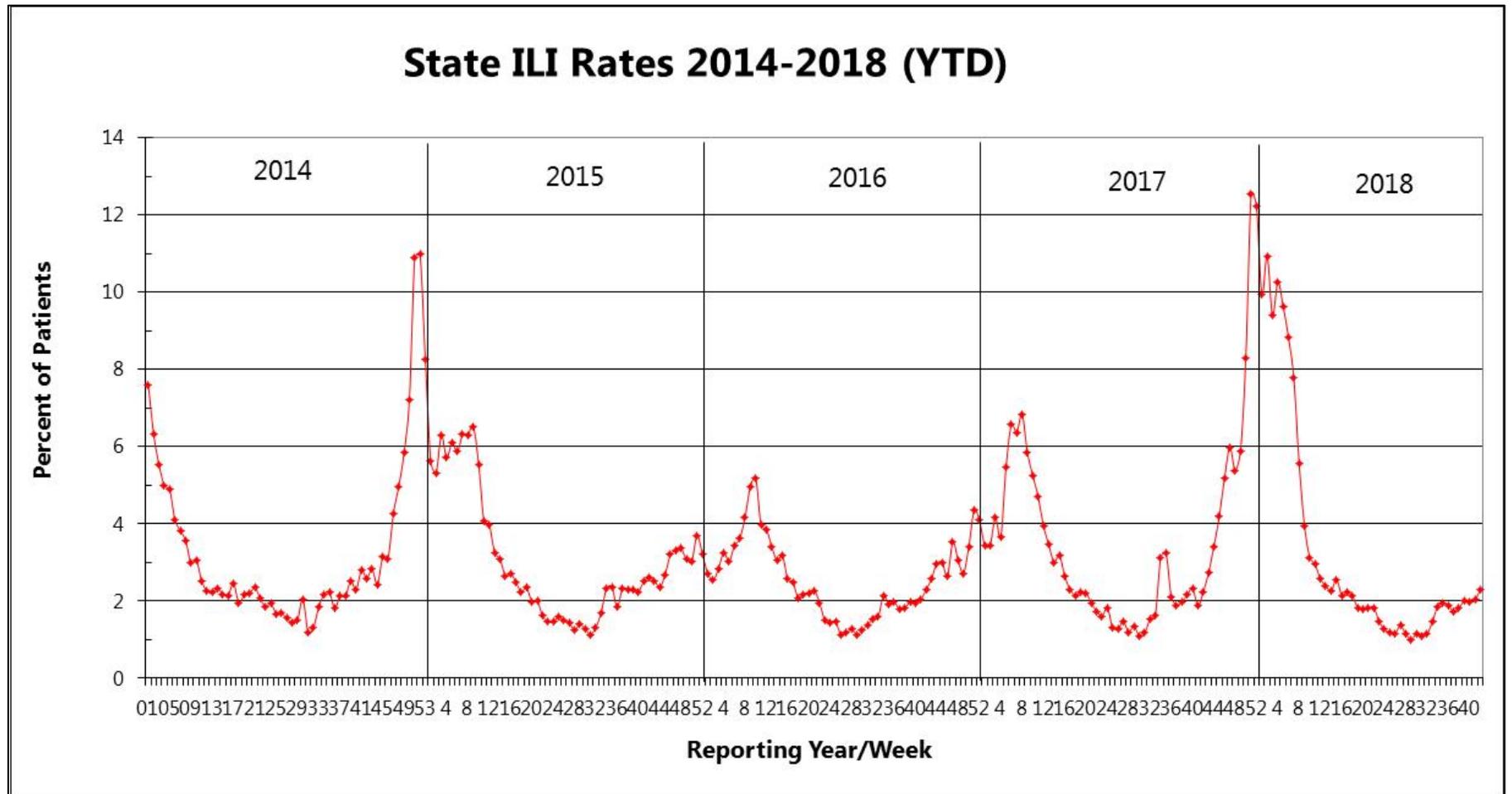


Figure 5

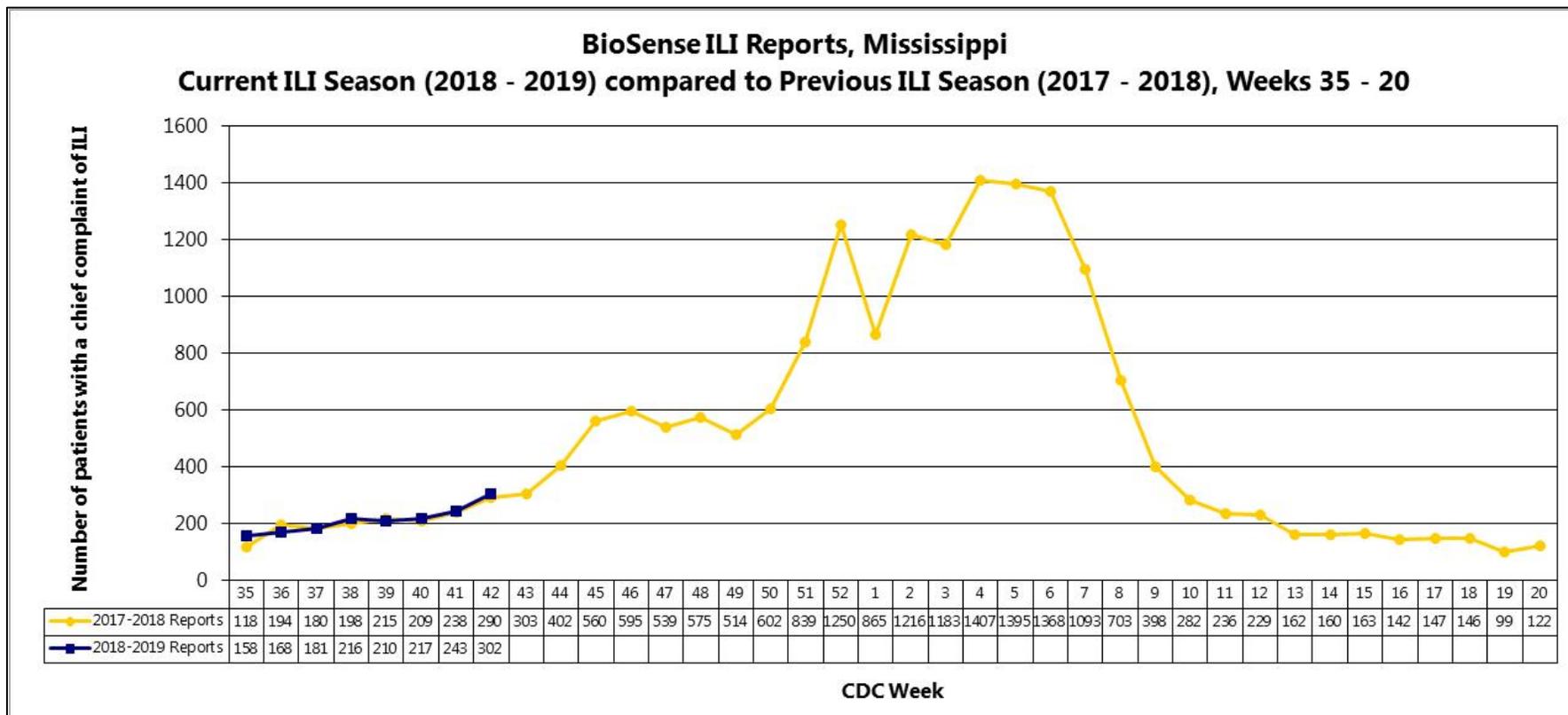


Figure 6

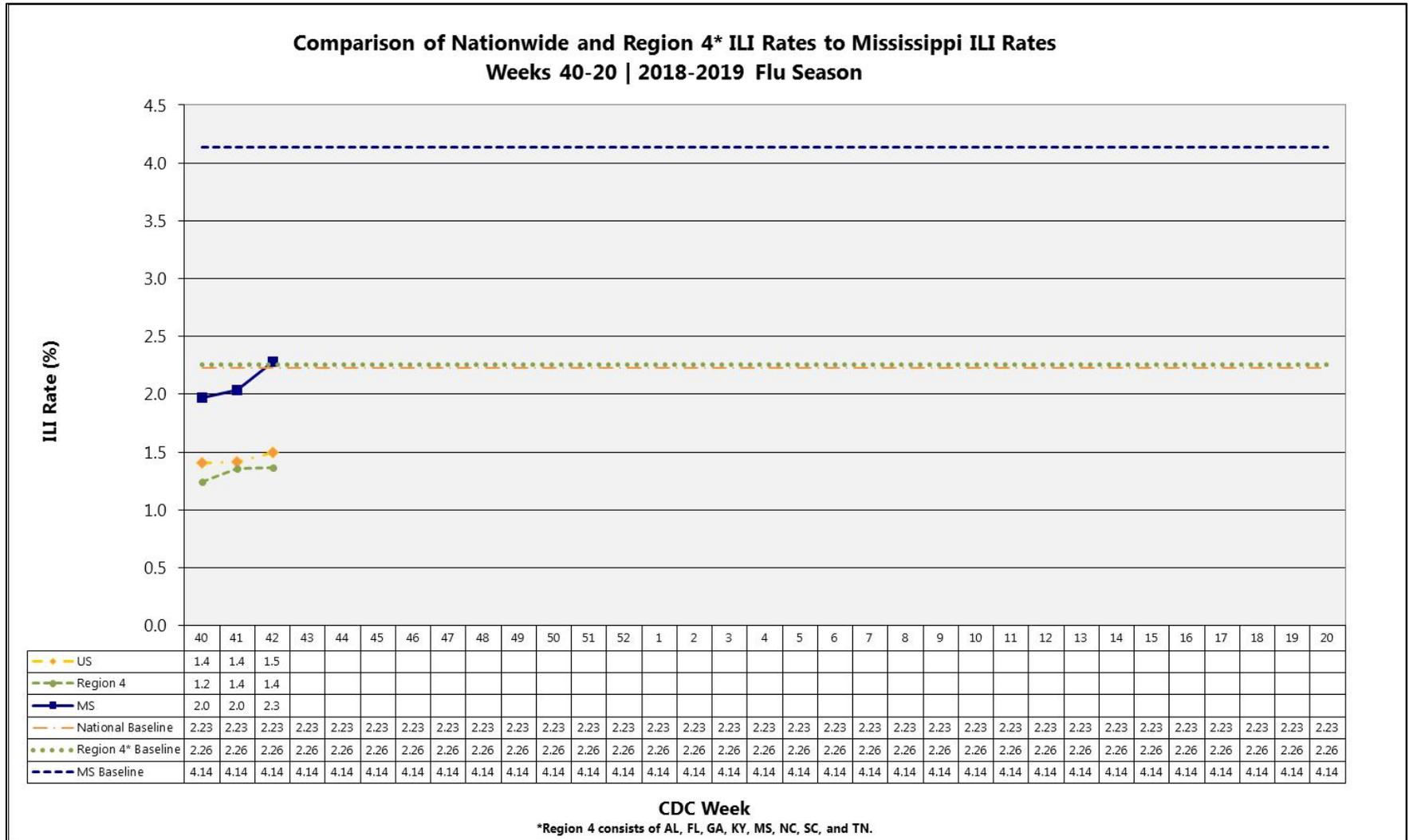


Figure 7

