



2016-2017 Influenza Report Week 51 Dec. 18 – Dec. 24, 2016

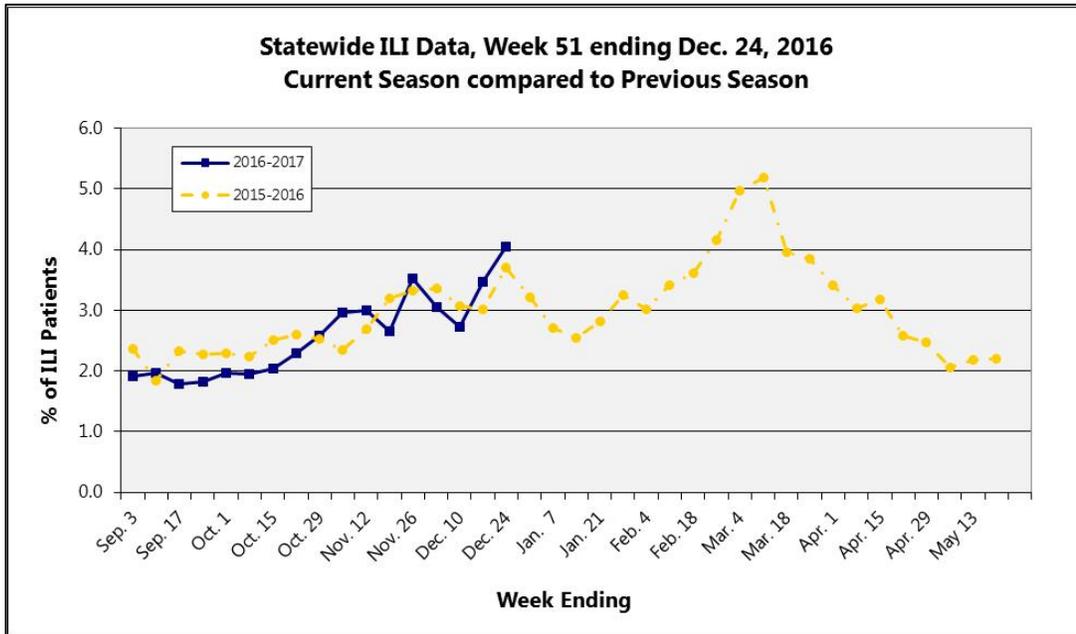
About our flu activity reporting

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.**

Content

- ❖ [State ILI Surveillance](#)
- ❖ [Flu Testing Reports](#)
- ❖ [National and Mississippi Pediatric Mortality Surveillance](#)
- ❖ [National ILI Surveillance](#)
- ❖ [Appendix](#)
 - [Figure 1](#) (Statewide ILI Data, Current Season compared to Previous Season)
 - [Figure 2](#) (Percentage of ILI Cases by Age Group, Mississippi)
 - [Figure 3](#) (Mississippi ILI Rates, 2016-2017 and Previous Seasons)
 - [Figure 4](#) (State ILI/URI Rates 2013-2016 (YTD))
 - [Figure 5](#) (Comparison of Statewide ILI Rate to Positive Influenza Isolates by Type and Subtype, Mississippi)
 - [Figure 6](#) (Comparison of Nationwide ILI Rates to Mississippi ILI Rates)
 - [Figure 7](#) (CDC FluView Weekly Influenza Activity Map)

State ILI Surveillance



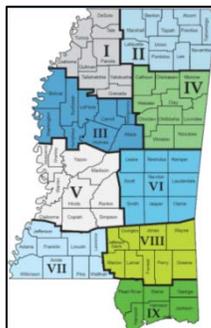
During week **51** (12/18/16 - 12/24/16), the state ILI rate (**4.0%**) **increased slightly** from the previous week (**3.5%**), but was comparable to this time last

year (**3.7%**). | [Figure 1](#)

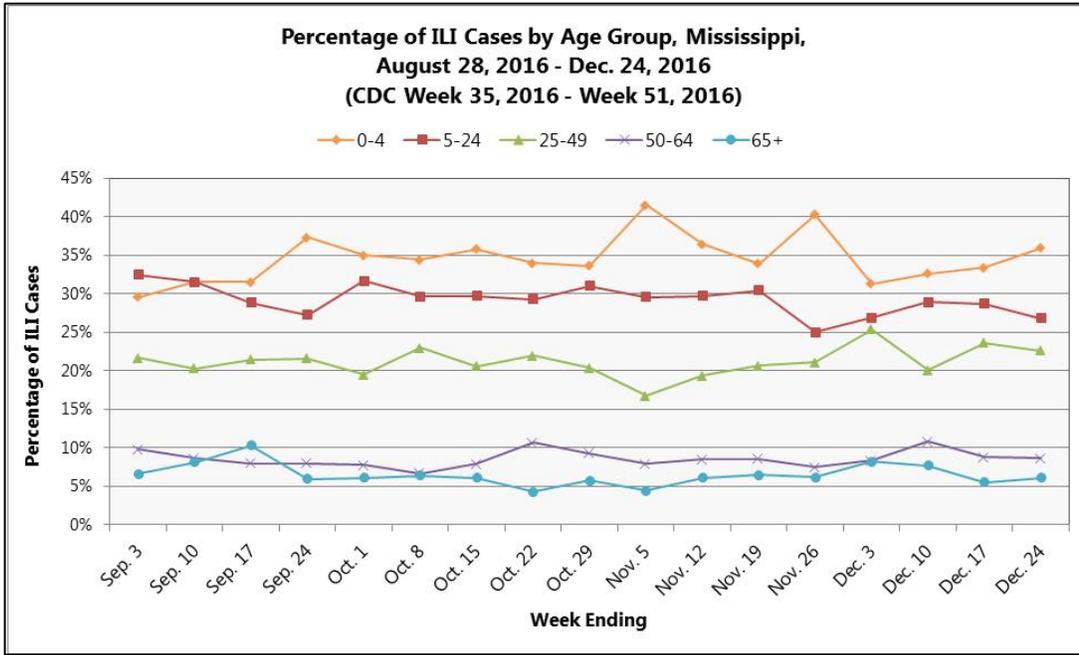
Total number of patients seen by sentinel providers in the last three weeks. | [Table 1](#)

2016-2017 Influenza Season					
CDC Week	Week Ending	Number of ILI Reports	Total patients	ILI symptoms	ILI Rate (%)
51	Dec. 24	119	14670	593	4.0%
50	Dec. 17	132	17693	614	3.5%
49	Dec. 10	139	18712	509	2.7%

During week **51**, **seven** districts (1, 2, 3, 4, 5, 6, and 7) had an increase in ILI activity, while **two** districts (8 and 9) remained about the same. *Information is provisional only and may change depending on additional reporting from sentinel providers.* | [Table 2](#)



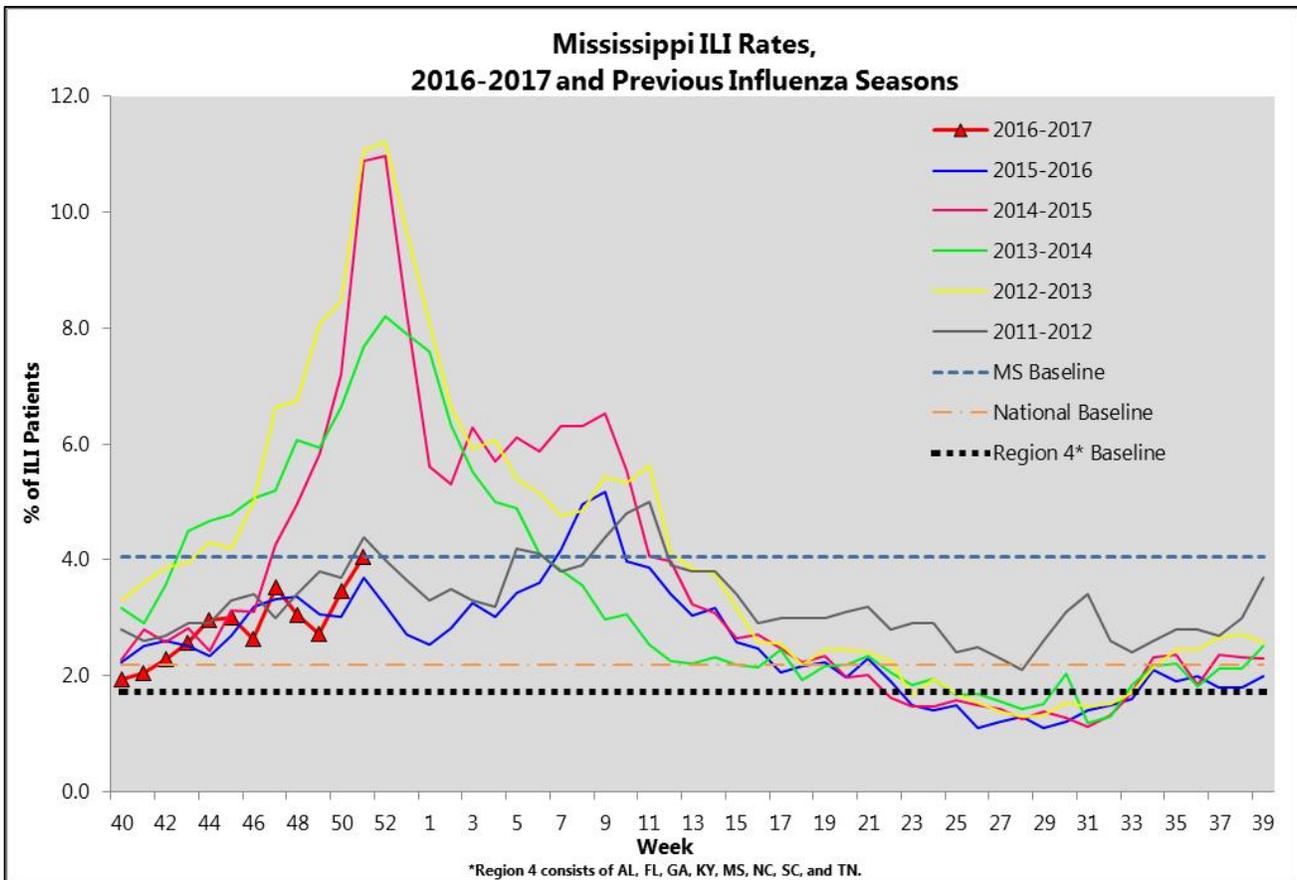
MSDH District ILI Rates (%) 2016-2017		
District	Week 50	Week 51
State	3.5	4.0
I	3.0	3.8
II	4.0	5.3
III	0.5	3.1
IV	5.6	6.2
V	2.1	3.7
VI	6.4	9.0
VII	3.0	4.0
VIII	1.7	2.0
IX	3.9	4.2



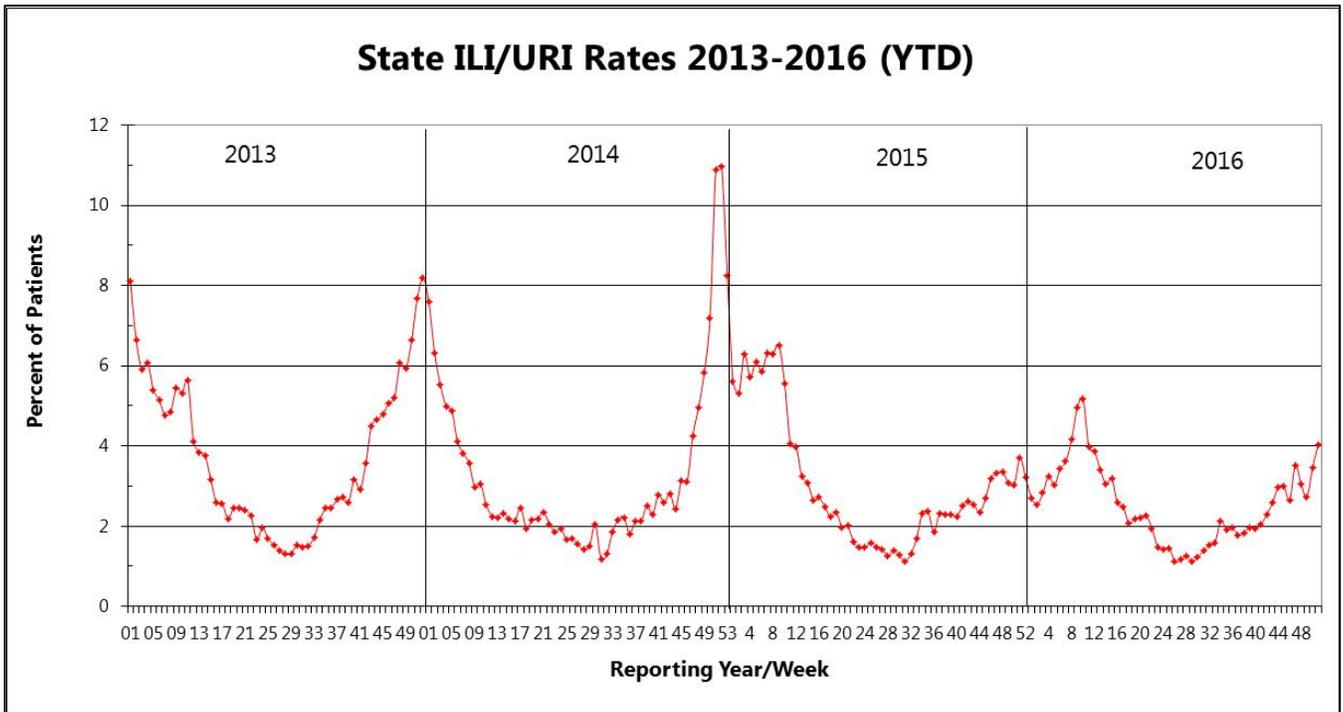
Overall, the percentage of reported ILI cases has been highest among those in the **0-4** and **5-24 years**. During week **51**, however, the percentage of reported ILI cases was

highest among those in the **0-4 years** of age group. | [Figure 2](#)

The 2016-17 state ILI rate was **above** the national and Region 4 baselines, but was **comparable** to the state baseline, for week **51**. | [Figure 3](#)

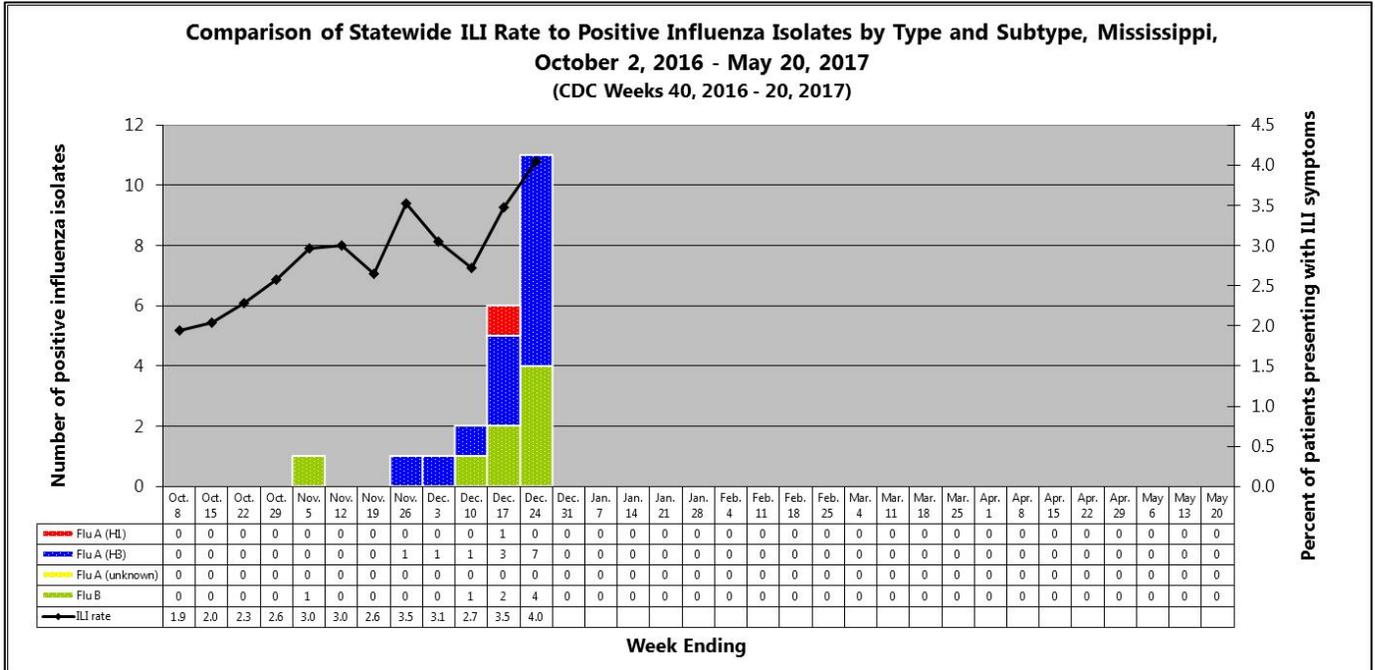


Mississippi ILI Rates 2013-2016 | [Figure 4](#)



Flu Testing Reports

From week **40** (week ending Oct. 8th) through week **51** (week ending Dec. 24th), 22 laboratory confirmed influenza samples were identified by the MSDH Public Health Laboratory. Thirteen (59%) samples were identified as influenza A (H3), eight (36%) were identified as influenza B, and one (5%) was identified as influenza A (H1). | [Figure 5](#)



The influenza cases were identified from the following counties: Coahoma (1), DeSoto (1), George (2), Harrison (2), Hinds (2), Lowndes (5), Neshoba (1), Oktibbeha (3), Pearl River (2), Pike (2), and Rankin (1).

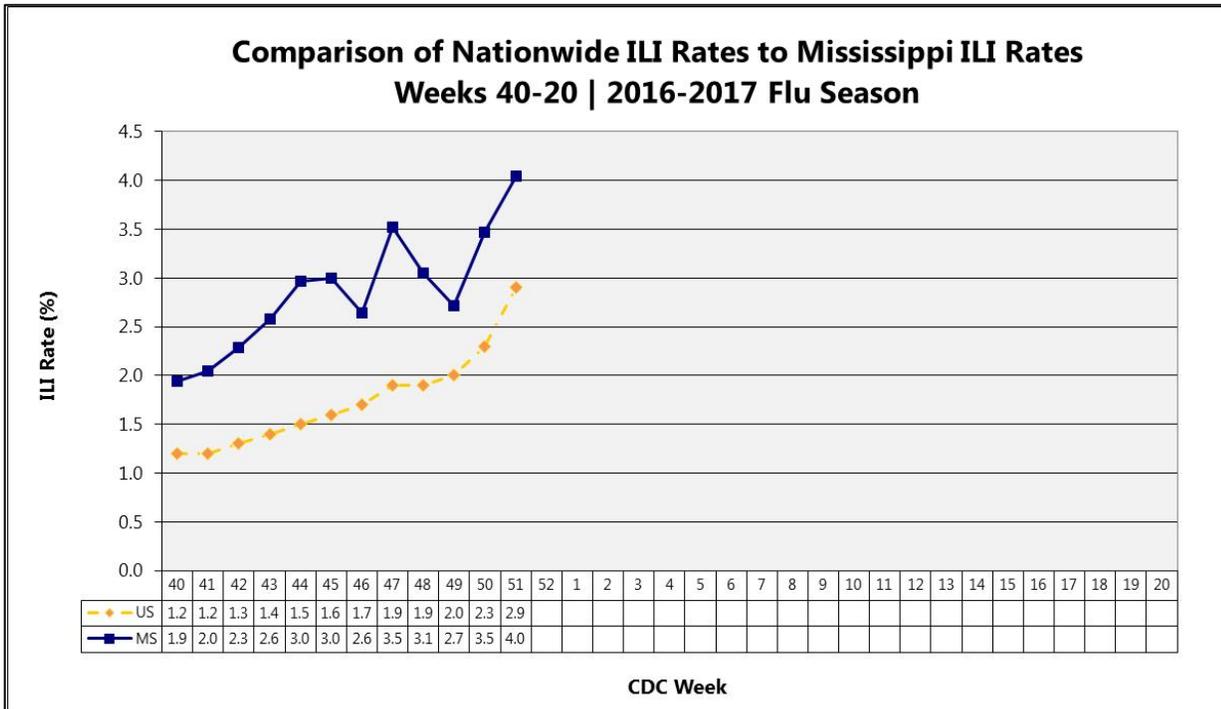
National and Mississippi Pediatric Mortality Surveillance

Nationally, no influenza-associated pediatric deaths were reported to CDC during week **51**. No influenza-associated pediatric deaths for the 2016-2017 season have been reported to CDC.

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](#).

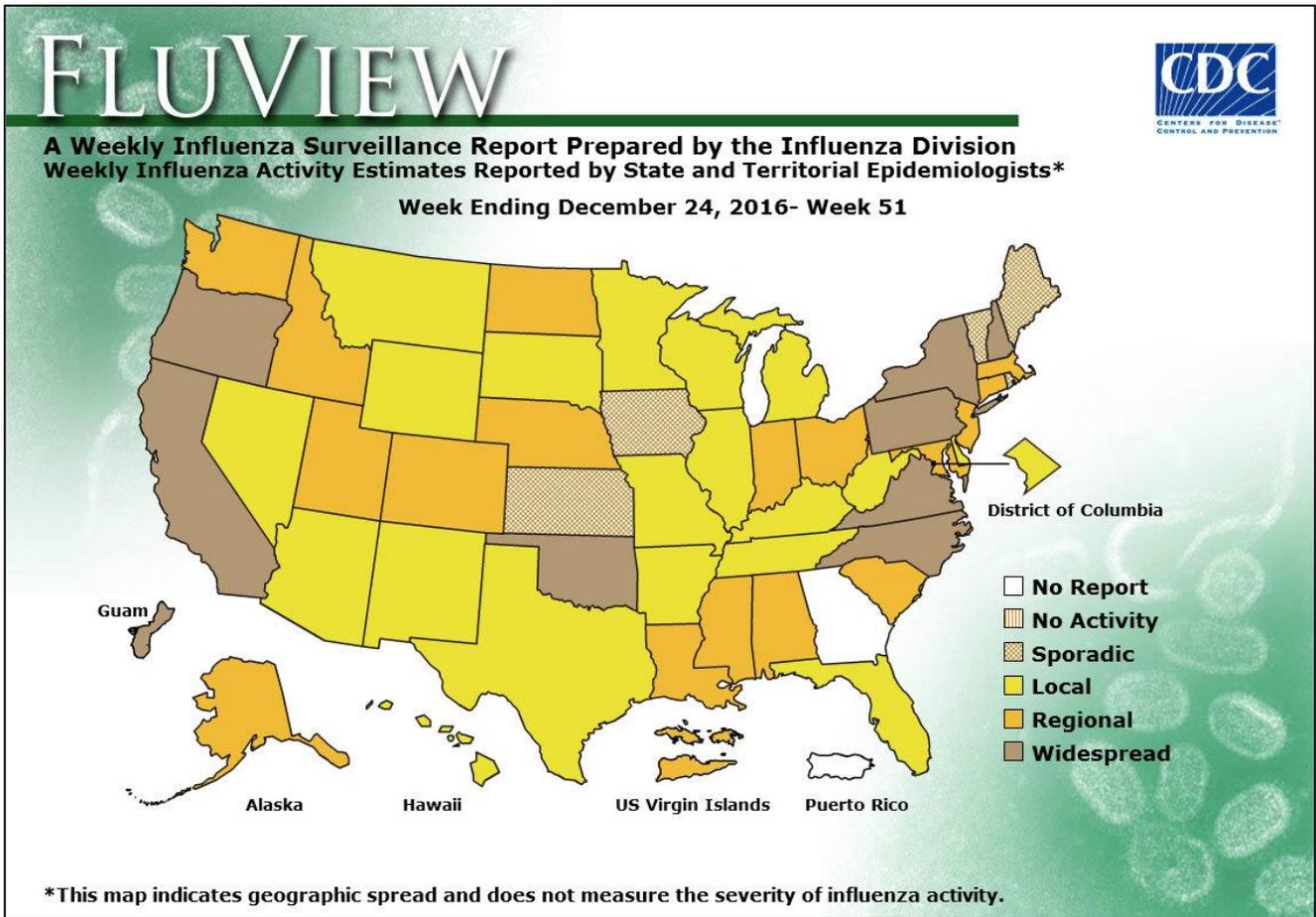
National ILI Surveillance

For week **51**, the MS ILI rate (4.0%) was **above** the national ILI rate (2.9%). | [Figure 6](#)



US ILI rates from the Centers for Disease Control and Prevention: <http://www.cdc.gov/flu/weekly/>.

During week **51**, influenza activity **increased** in the United States.¹ | [Figure 7](#)



Mississippi reported “**Regional**” for the influenza activity during week **51**. | [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/
Flu.gov	http://www.flu.gov/
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

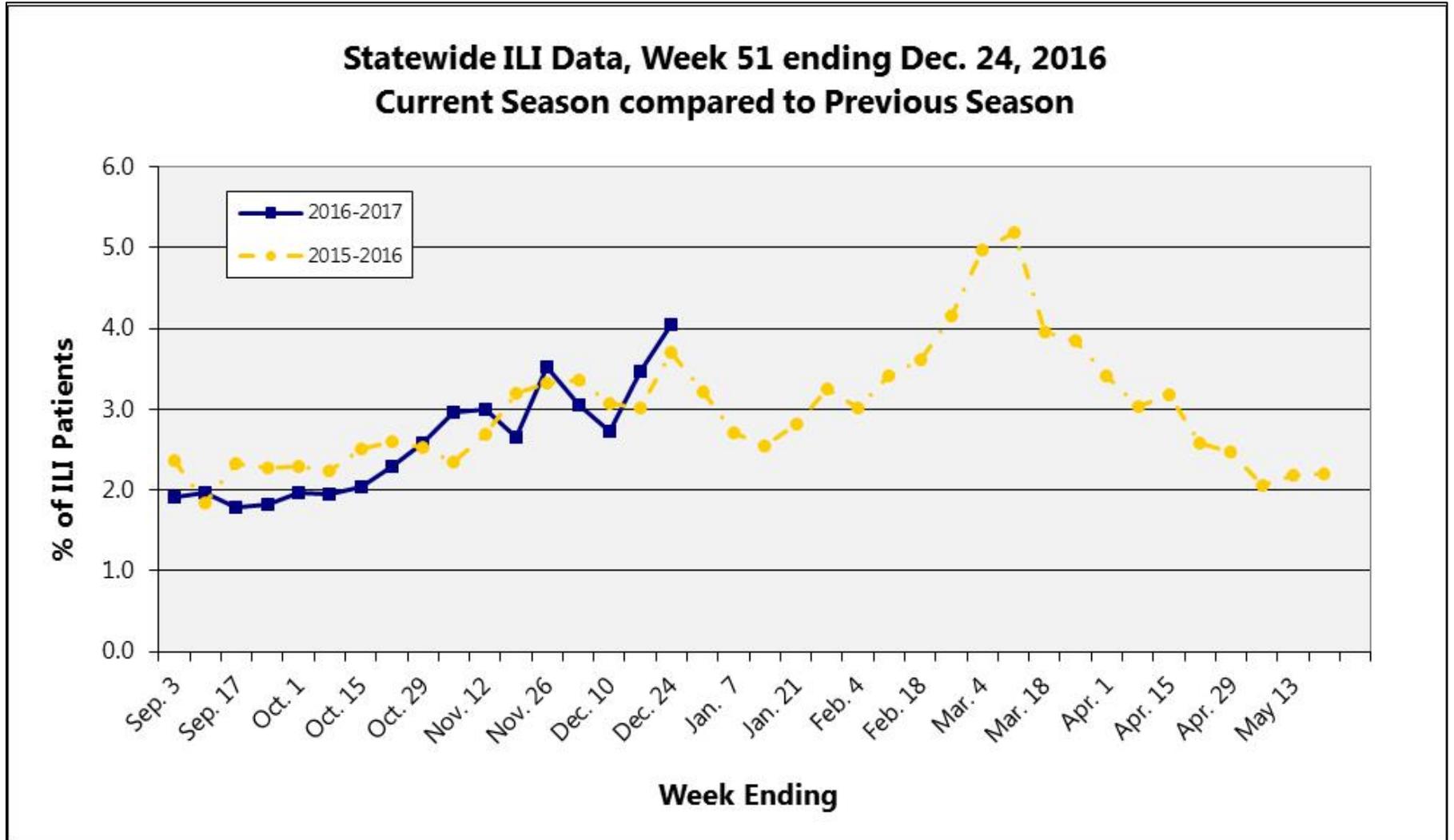


Figure 2

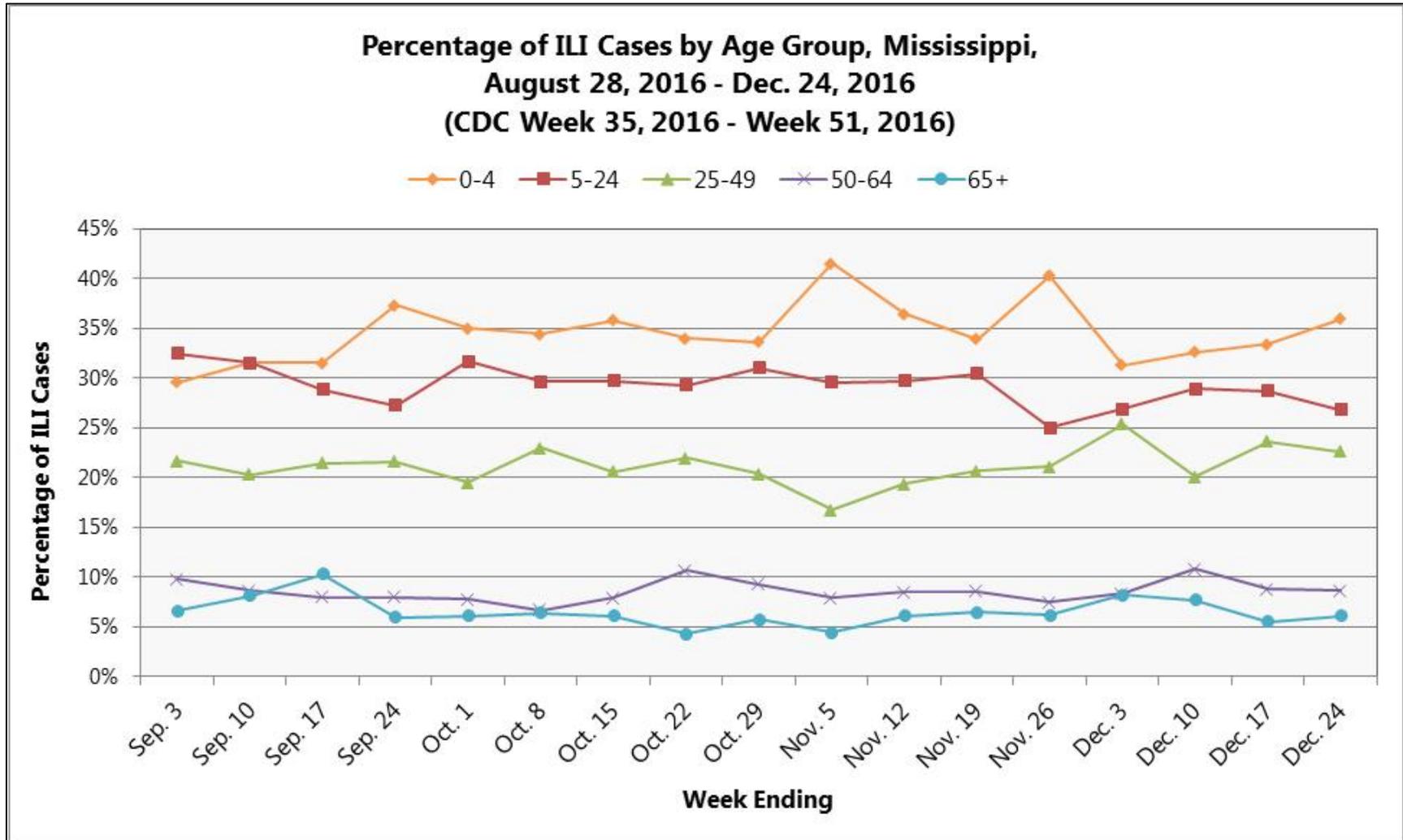


Figure 3

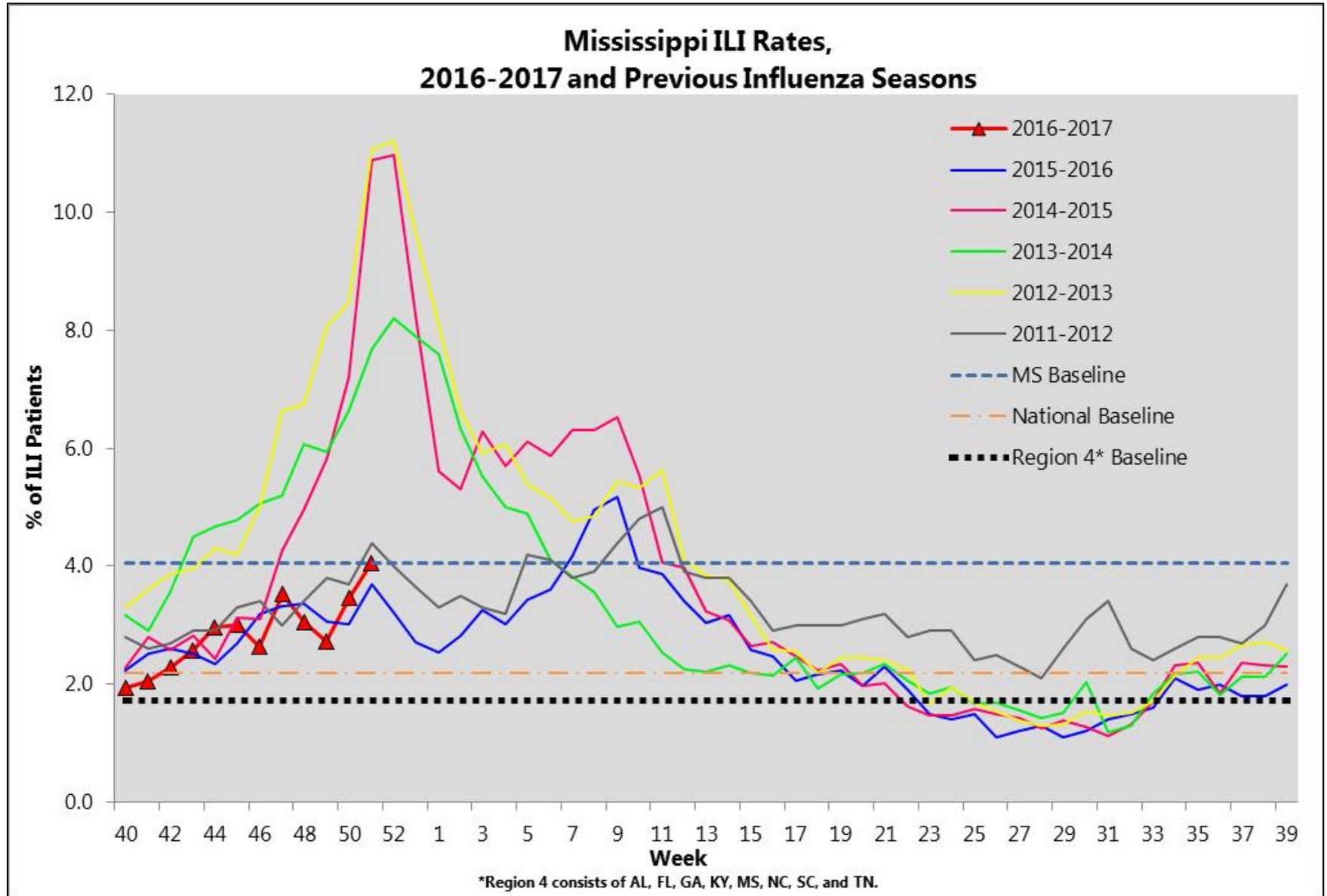


Figure 4

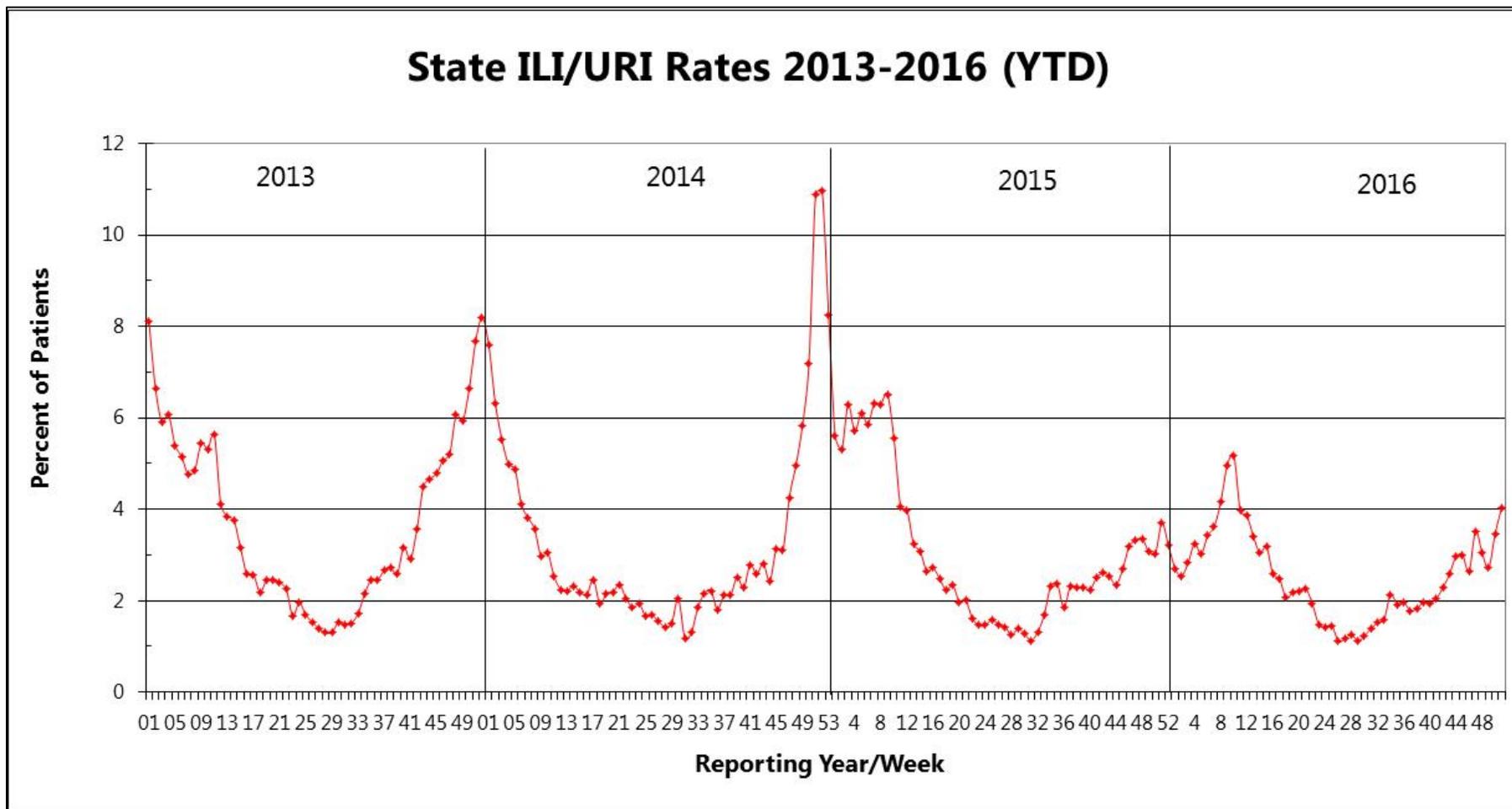


Figure 5

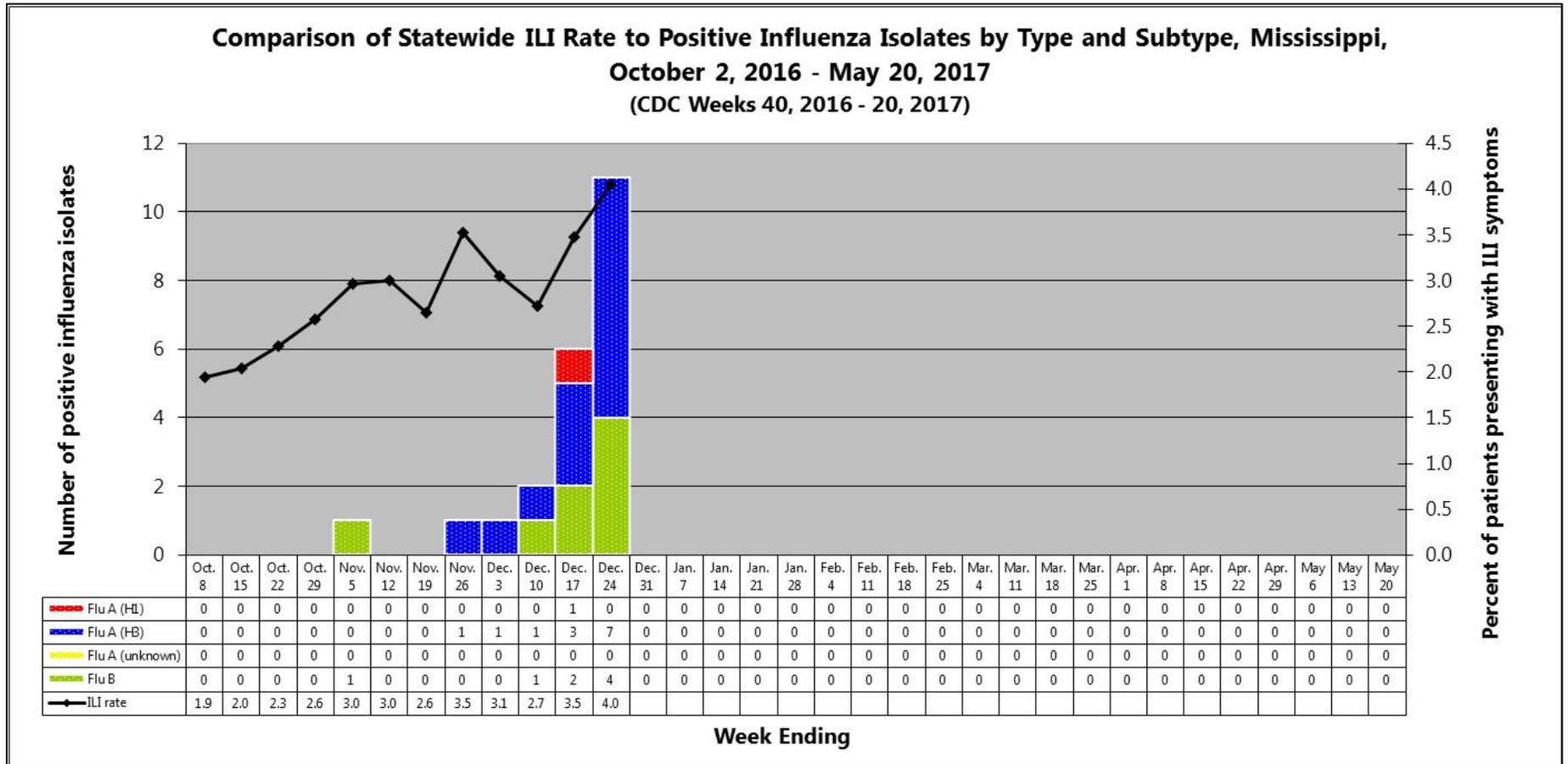


Figure 6

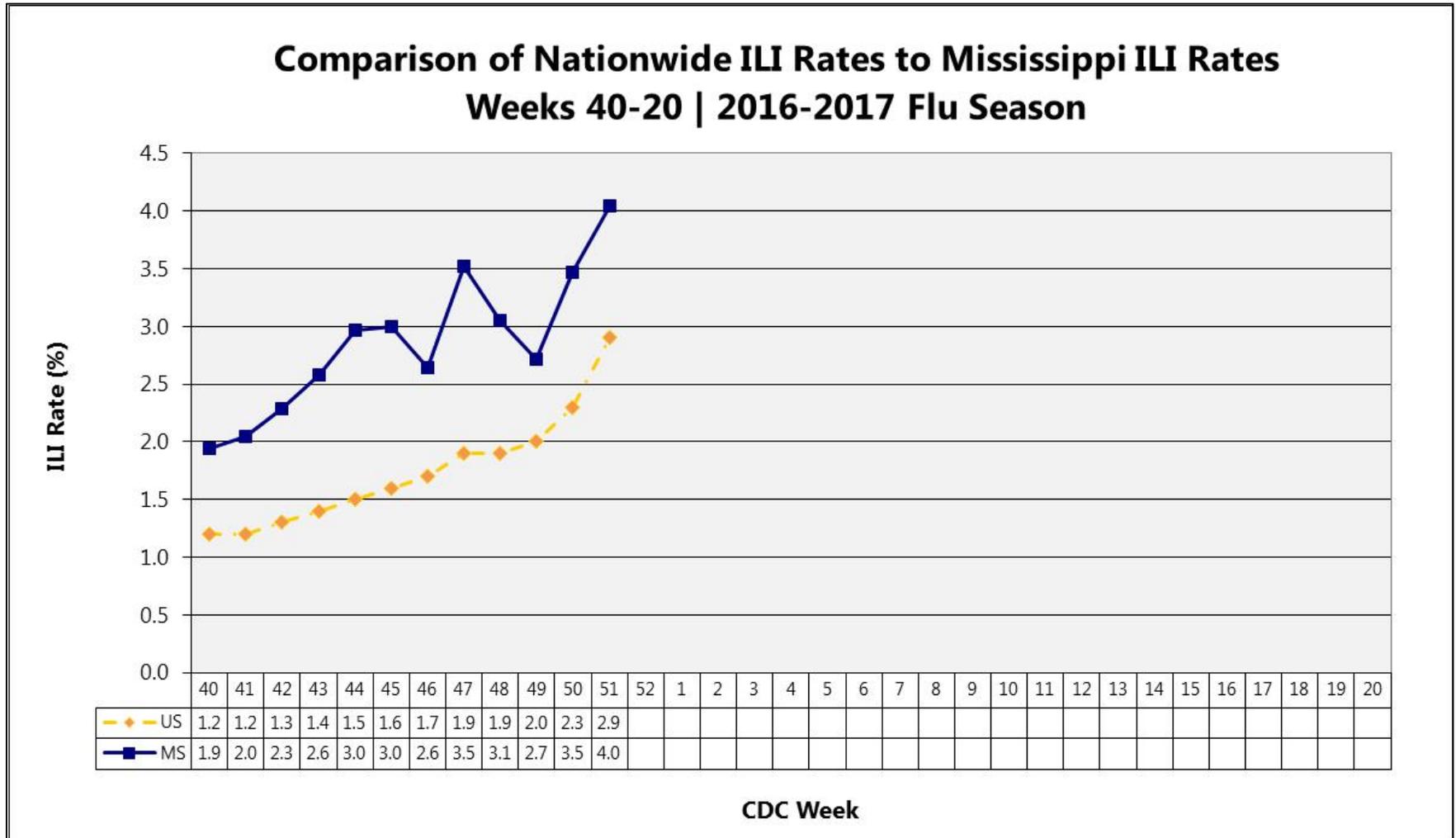


Figure 7

