



# 2017-2018 Influenza Report Week 46 Nov. 12 – Nov. 18, 2017

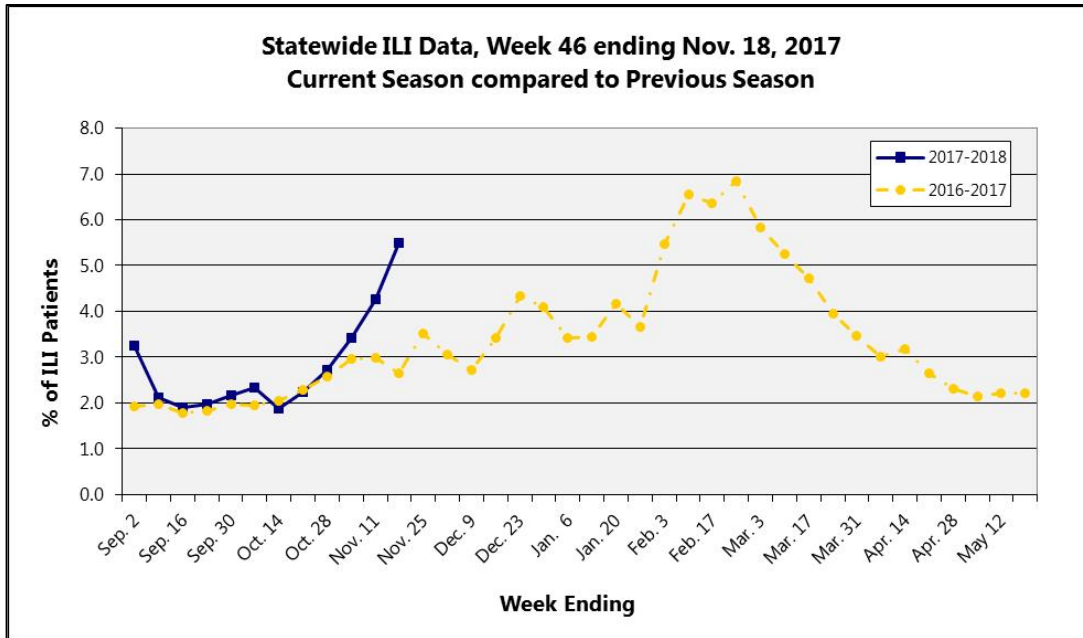
## About our flu activity reporting

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 **46** (11/12/17-11/18/17), the overall state ILI rate (**5.5%**) increased from the previous week (**4.3%**), and was above this time last year (**2.6%**). |

[Figure 1](#)

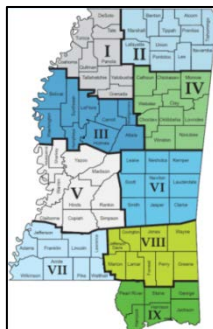
Total number of patients treated by sentinel providers in the last three weeks. | **Table 1**

2017-2018 Influenza Season					
CDC Week	Week Ending	Number of ILI Reports	Total patients	ILI symptoms	ILI Rate (%)
<b>46</b>	<b>Nov. 18</b>	<b>135</b>	<b>18786</b>	<b>1034</b>	<b>5.5%</b>
45	Nov. 11	137	19863	846	4.3%
44	Nov. 04	138	19704	673	3.4%

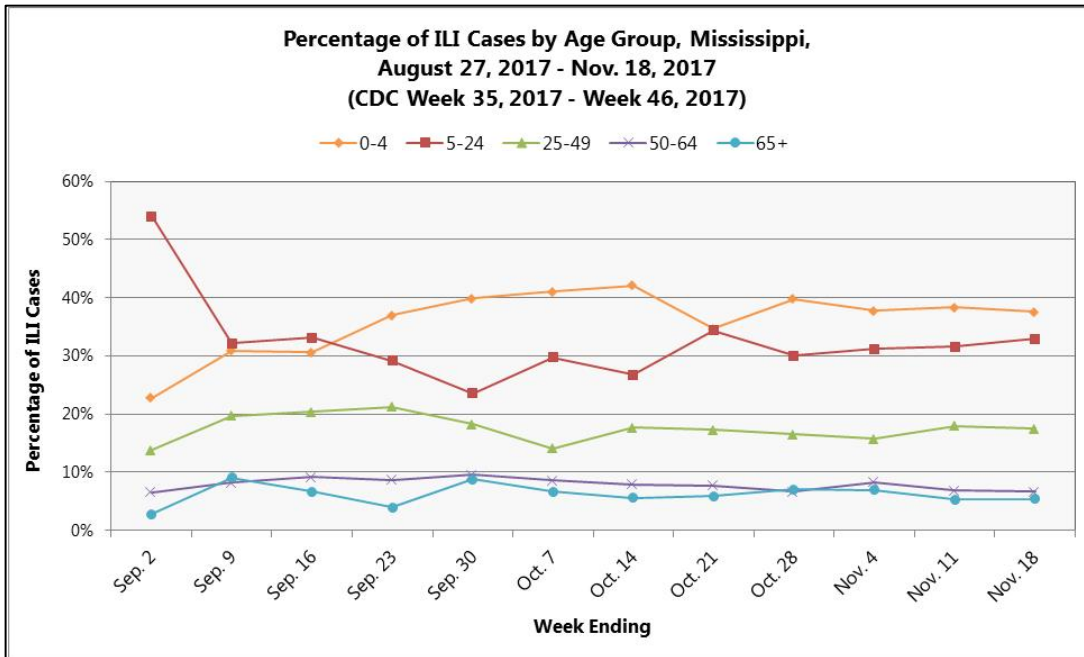
During week **46**, **five** districts (4, 5, 6, 7, and 9) had an increase in ILI activity, while **one** district (2) had a decrease.

**Three** districts (1, 3, and 8) remained about the same.

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



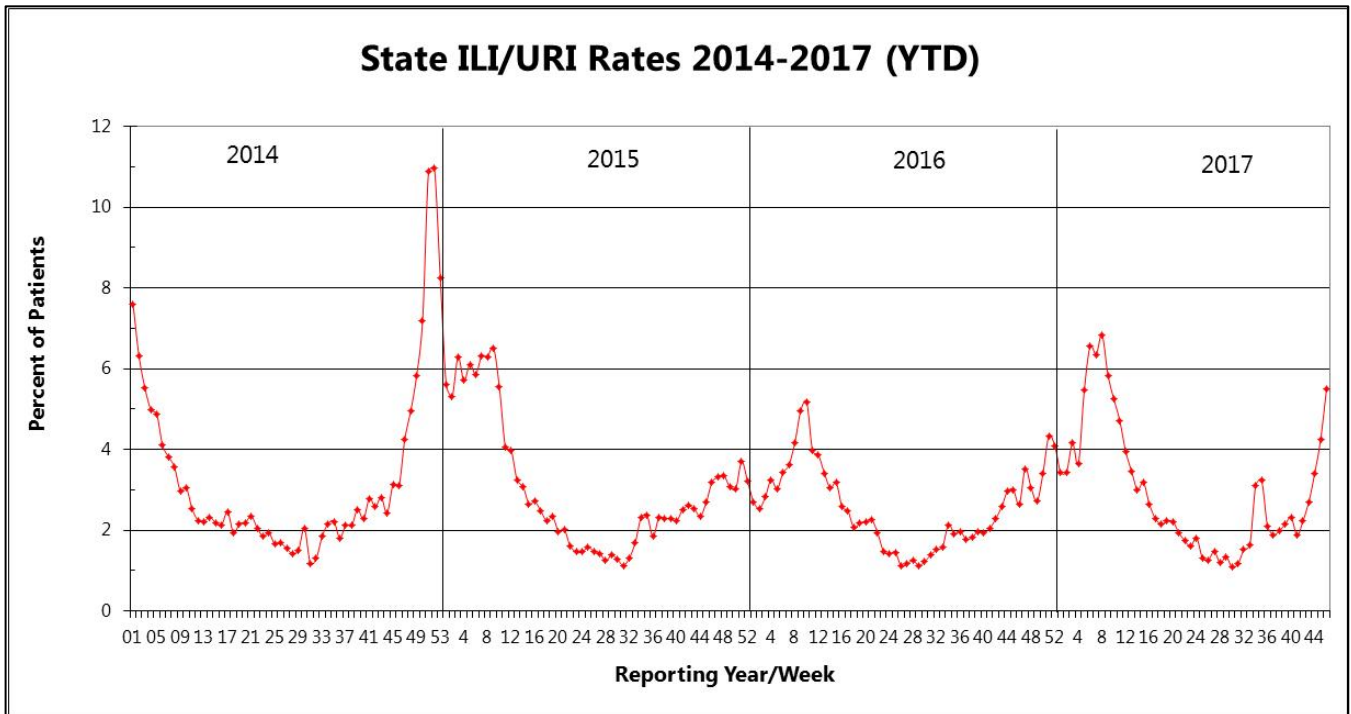
MSDH District ILI Rates (%) 2017-2018		
District	Week 45	Week 46
State	4.3	5.5
I	2.8	3.2
II	3.4	2.5
III	2.9	2.9
IV	2.2	5.4
V	5.0	7.0
VI	4.8	7.0
VII	10.3	11.1
VIII	2.7	2.5
IX	3.7	4.3



Overall, the percentage of reported ILI cases has been highest among those in the **0-4** and **5-24 years** of age groups. During week **46**, however, the percentage of reported ILI

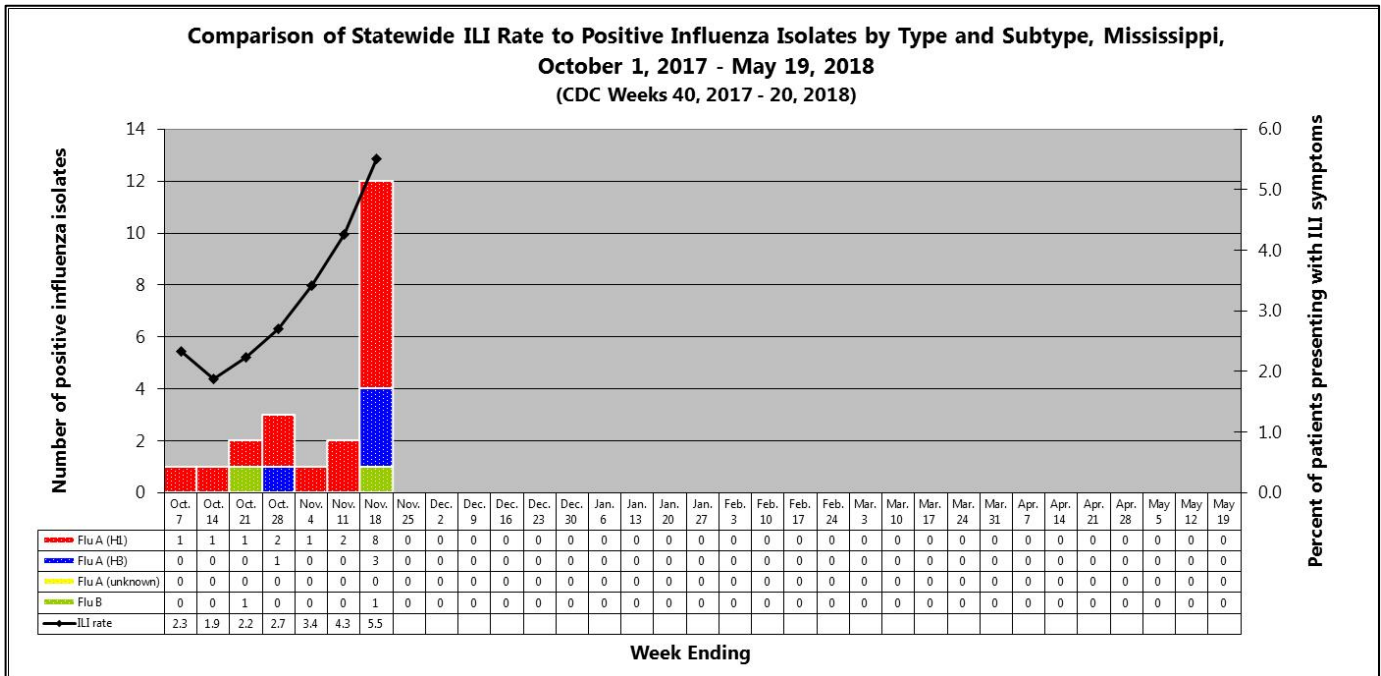
cases was highest among those in the **0-4 years** of age group. | [Figure 2](#)

Mississippi ILI Rates 2014-2017 | [Figure 3](#)



### Flu Testing Reports

Since week 40 (week ending October 7<sup>th</sup>), **22** laboratory confirmed influenza samples have been identified by the MSDH Public Health Laboratory. Sixteen (73%) were identified as influenza A (H1), four (18%) were identified as influenza A (H3), and two (9%) were identified as influenza B. | [Figure 4](#)



The influenza cases were identified from the following counties: Attala (1), Bolivar (1), Covington (2), Hinds (3), Jones (1), Marion (1), Marshall (2), Neshoba (1), Pike (3), Quitman (1), Rankin (2), Wilkinson (1), and Winston (3).

### National and Mississippi Pediatric Mortality Surveillance

Nationally, **five** influenza-associated pediatric deaths were reported to CDC during week **46**. Two deaths were associated with an influenza A (H3) virus and occurred during weeks 45 and 46 (weeks ending November 11<sup>th</sup> and November 18<sup>th</sup>, respectively). One death was associated with an influenza A (H1N1)pdm09 virus and occurred during week 44 (week ending November 4<sup>th</sup>). One death was associated with an influenza A virus for which no subtyping was performed and occurred during week 44. **Five** influenza-associated pediatric deaths have been reported to CDC for the 2017-2018 season.

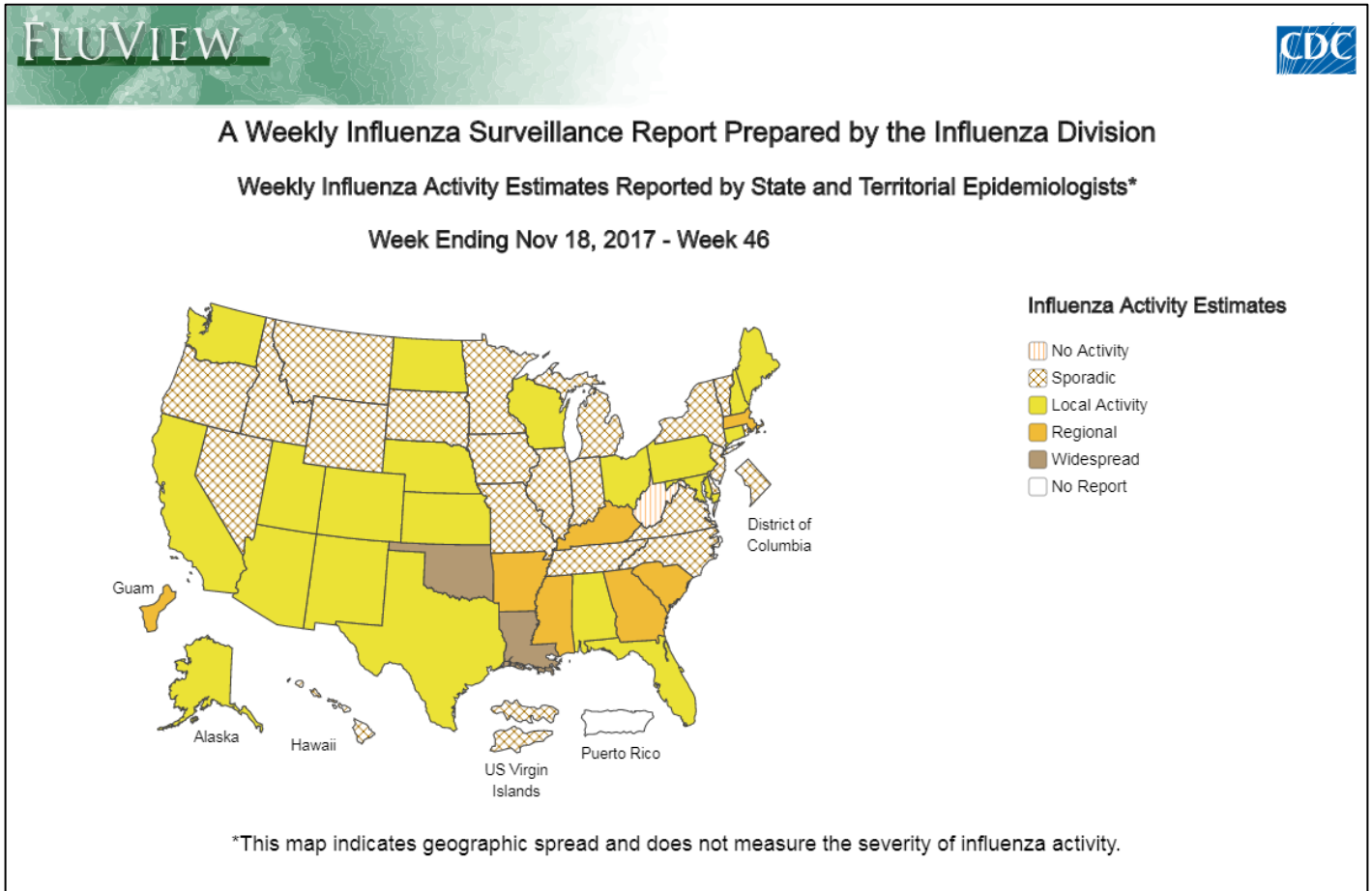
The fifth death that was reported to CDC during week 46 occurred during the 2016-2017 season. This death was associated with an influenza A (H3) virus and occurred during week 15 (week ending April 15<sup>th</sup>, 2017). This death brings the total number of reported influenza-associated pediatric deaths occurring during that season to 110.

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 **46**, the MS ILI rate (5.5%) was **above** the national ILI rate (2.0%).

During week **46**, influenza activity **increased** in the United States.<sup>1</sup> | [Figure 5](#)



<sup>1</sup>For 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 “**Regional**” for the influenza activity during week **46**. | **Table 3**

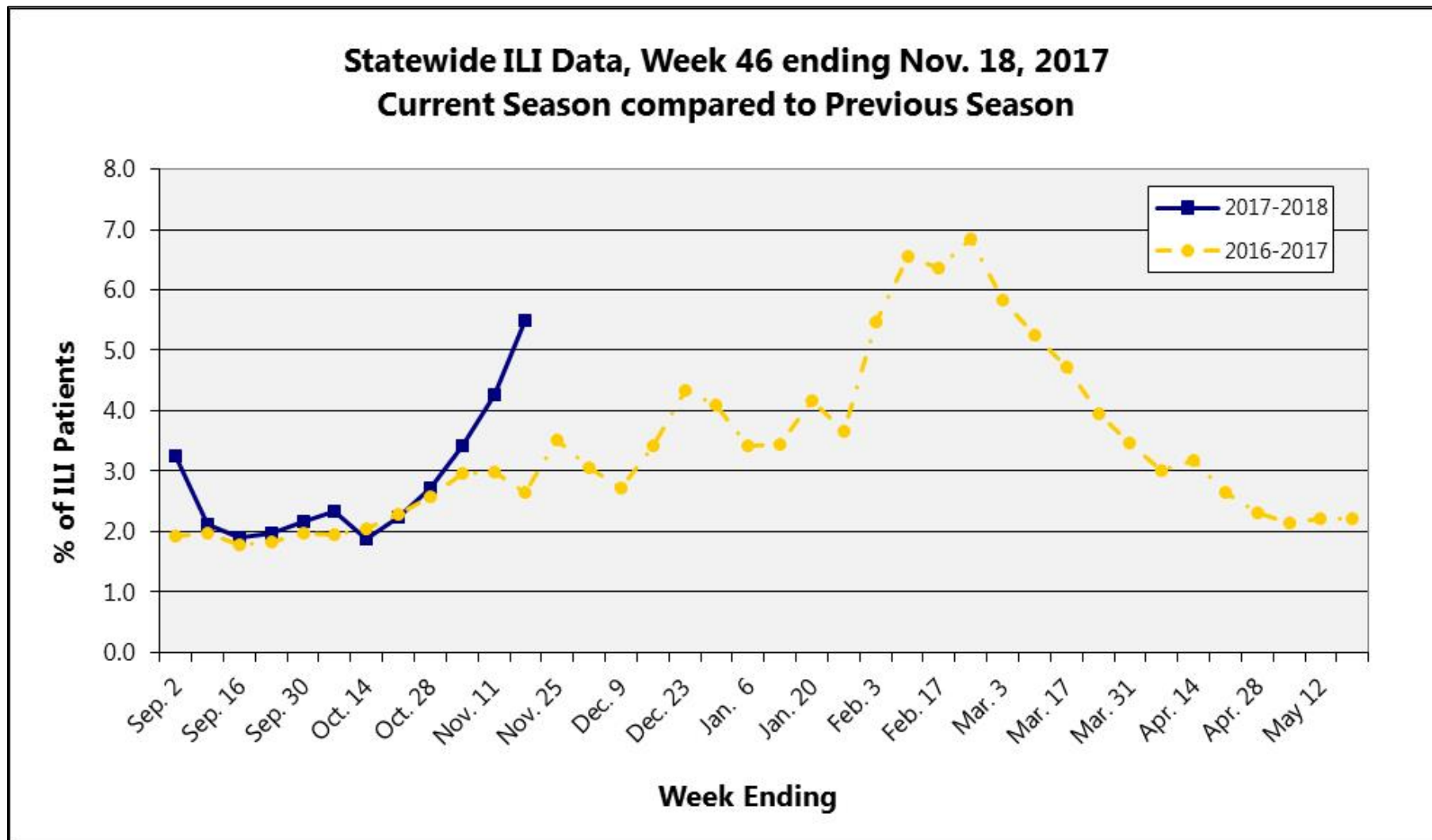
<b>Level of Flu Activity</b>	<b>Definition</b>
<b>No Activity</b>	Overall clinical activity remains low and there are no lab confirmed cases.
<b>Sporadic</b>	Isolated cases of lab confirmed influenza in the state; ILI activity is not increased <u>OR</u> A lab-confirmed outbreak in a single institution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

**Additional influenza information:**

<b>Centers for Disease Control and Prevention</b>	<a href="http://cdc.gov/flu/">http://cdc.gov/flu/</a>
<b>Centers for Disease Control and Prevention FluView</b>	<a href="http://www.cdc.gov/flu/weekly/">http://www.cdc.gov/flu/weekly/</a>
<b>MSDH Flu and Pneumonia</b>	<a href="http://msdh.ms.gov/msdhsite/ static/14,0,199.html">http://msdh.ms.gov/msdhsite/ static/14,0,199.html</a>
<b>World Health Organization FluNet</b>	<a href="http://www.who.int/influenza/gisrs_laboratory/flunet/en/">http://www.who.int/influenza/gisrs_laboratory/flunet/en/</a>

## Appendix

Figure 1





**Figure 2**

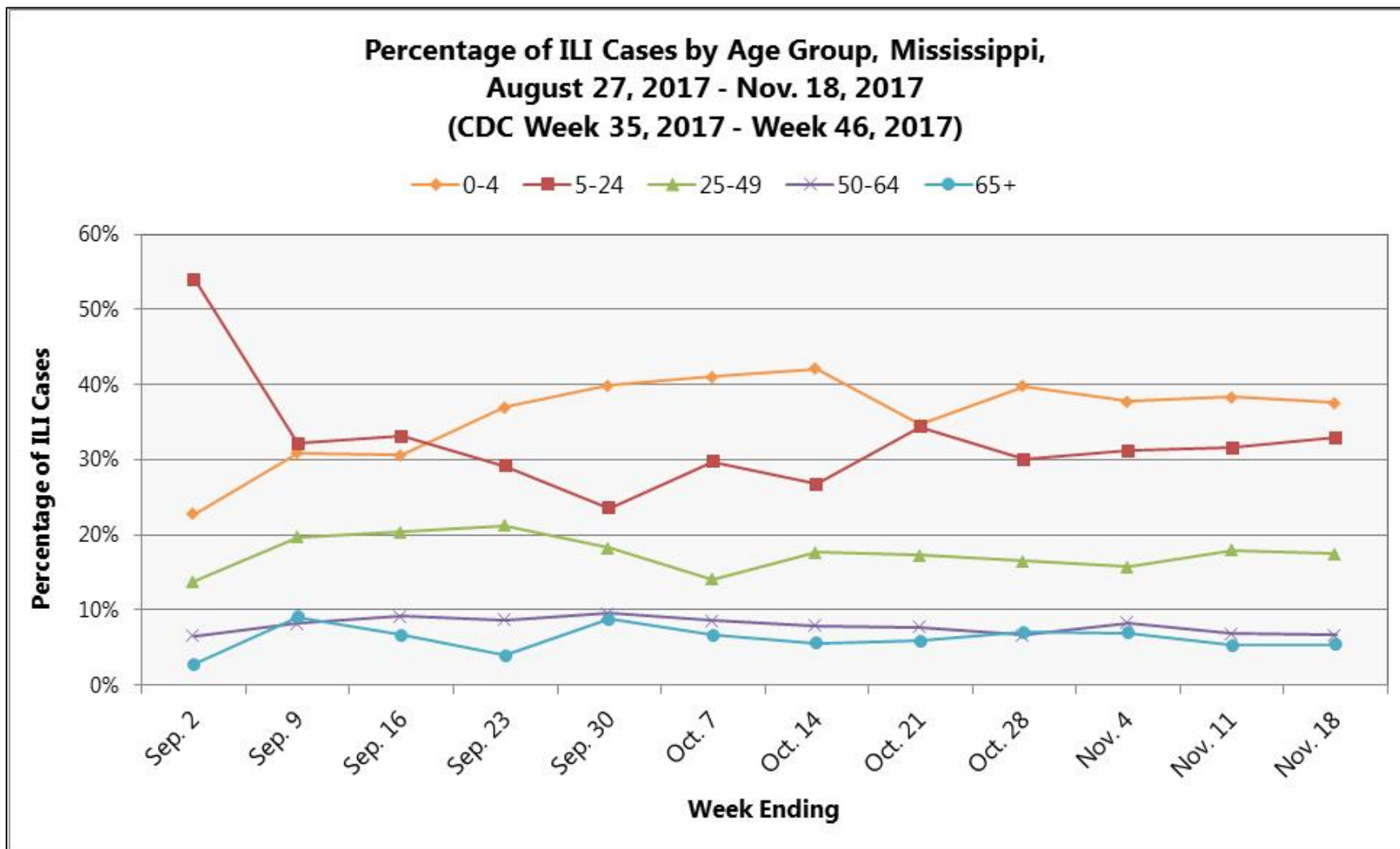
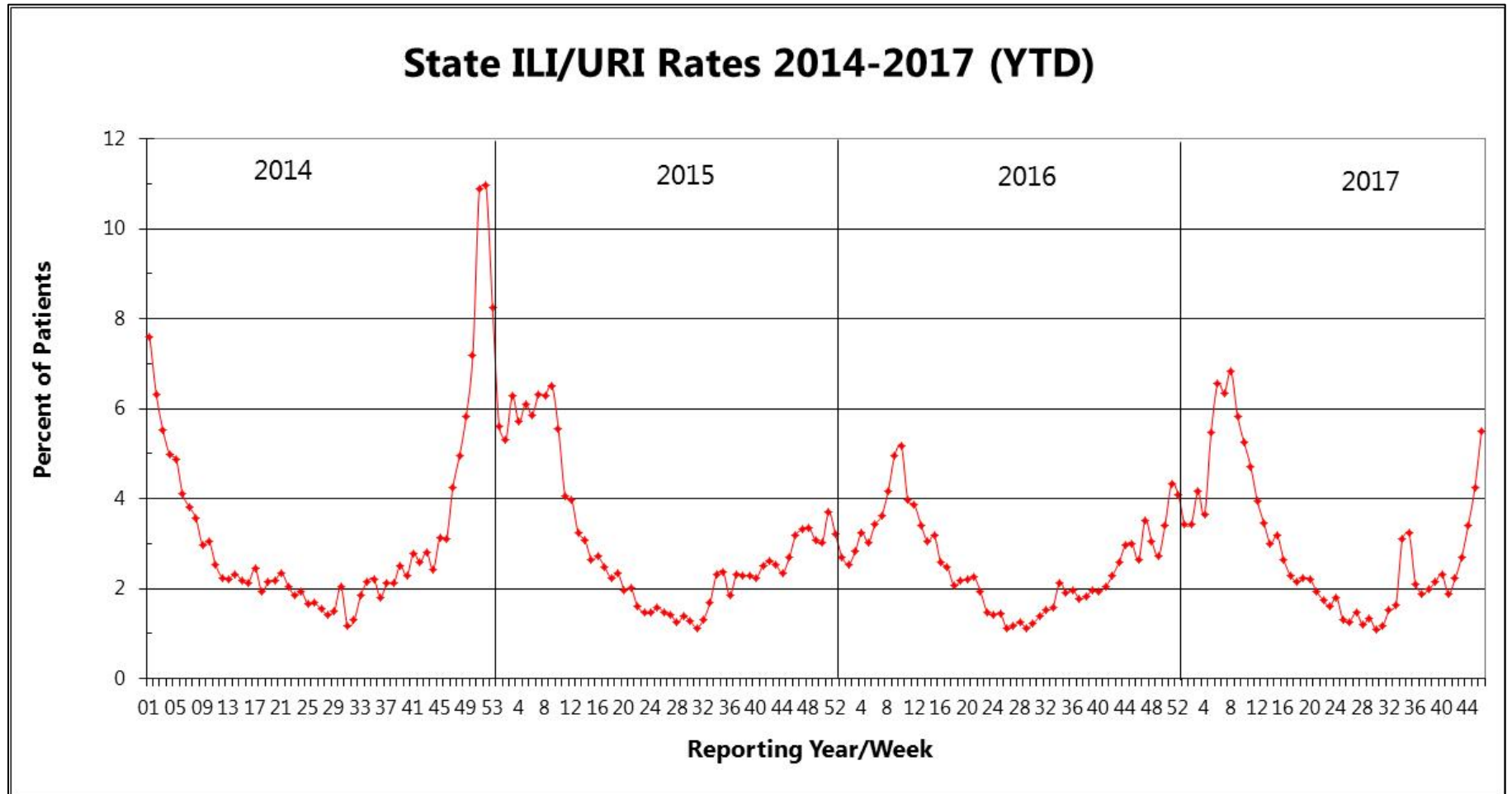




Figure 3



**Figure 4**

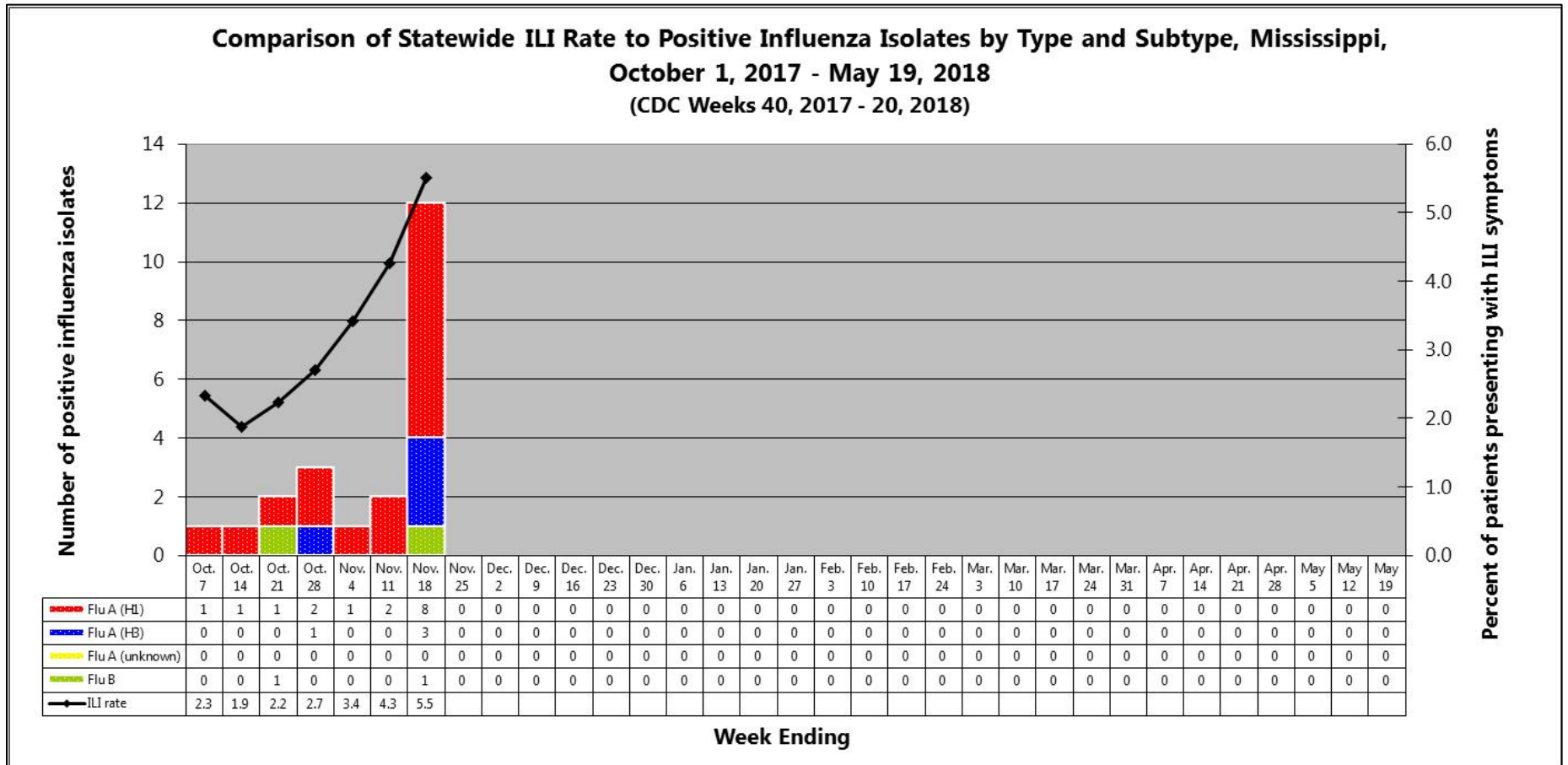


Figure 5

