



# 2015-2016 Influenza Report Week 15 April 10 – April 16, 2016

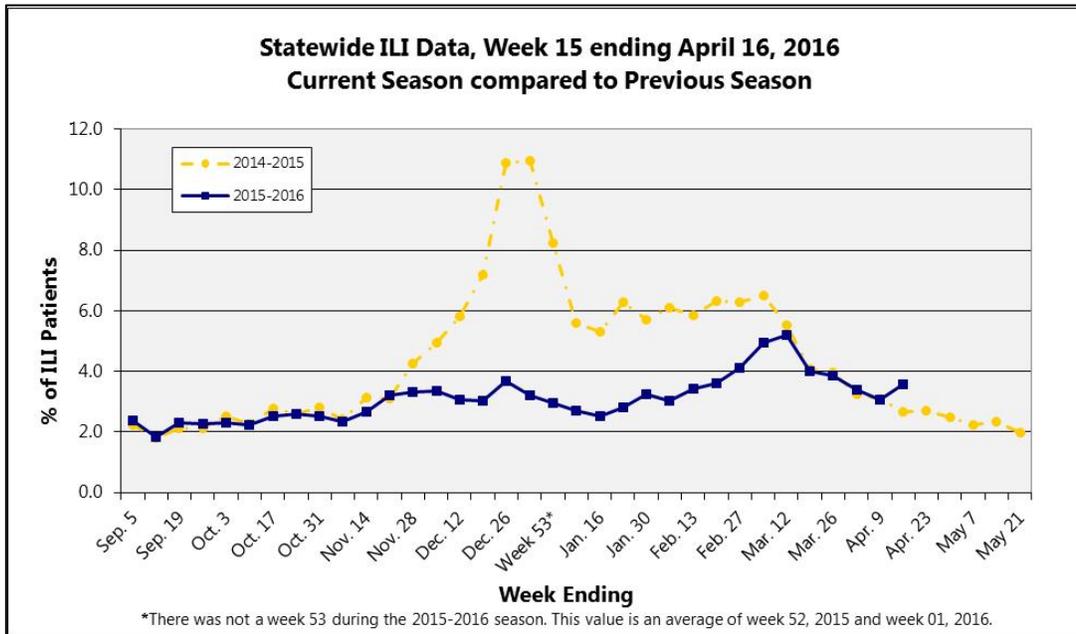
## About our flu activity reporting

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.**

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State ILI Surveillance



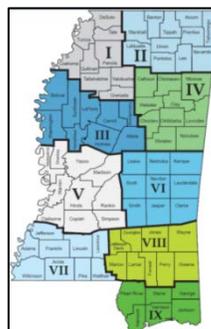
During week **15** (04/10/16-04/16/16), the overall state ILI rate (**3.6%**) **increased slightly** when compared to the previous week (**3.1%**) and to this time last year (**2.7%**).

**Figure 1**

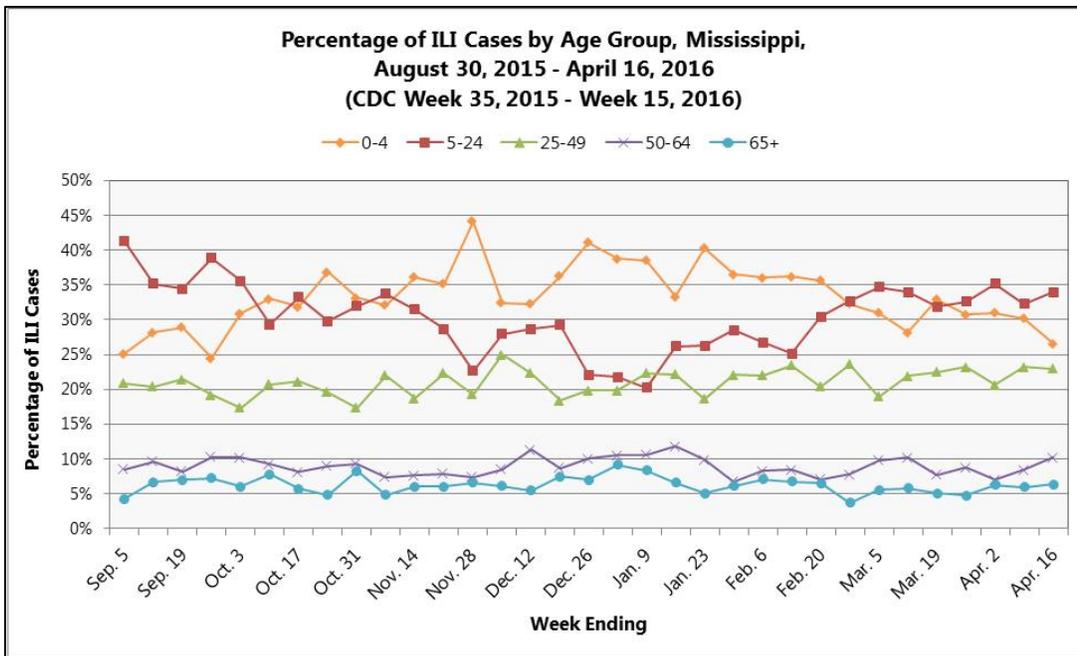
Total number of patients treated by sentinel providers in the last three weeks. | **Table 1**

2015-2016 Influenza Season					
CDC Week	Week Ending	Number of ILI Reports	Total patients	ILI symptoms	ILI Rate (%)
<b>15</b>	<b>Apr. 16</b>	<b>132</b>	<b>17330</b>	<b>618</b>	<b>3.6%</b>
14	Apr. 09	136	20825	639	3.1%
13	Apr. 02	150	20621	703	3.4%

During week **15**, **four** districts (2, 4, 6, and 9) had an increase in ILI activity, while **one** district (3) had a decrease. **Four** districts (1, 5, 7, and 8) remained about the same. *Information is provisional only and may change depending on additional reporting from sentinel providers.* | **Table 2**



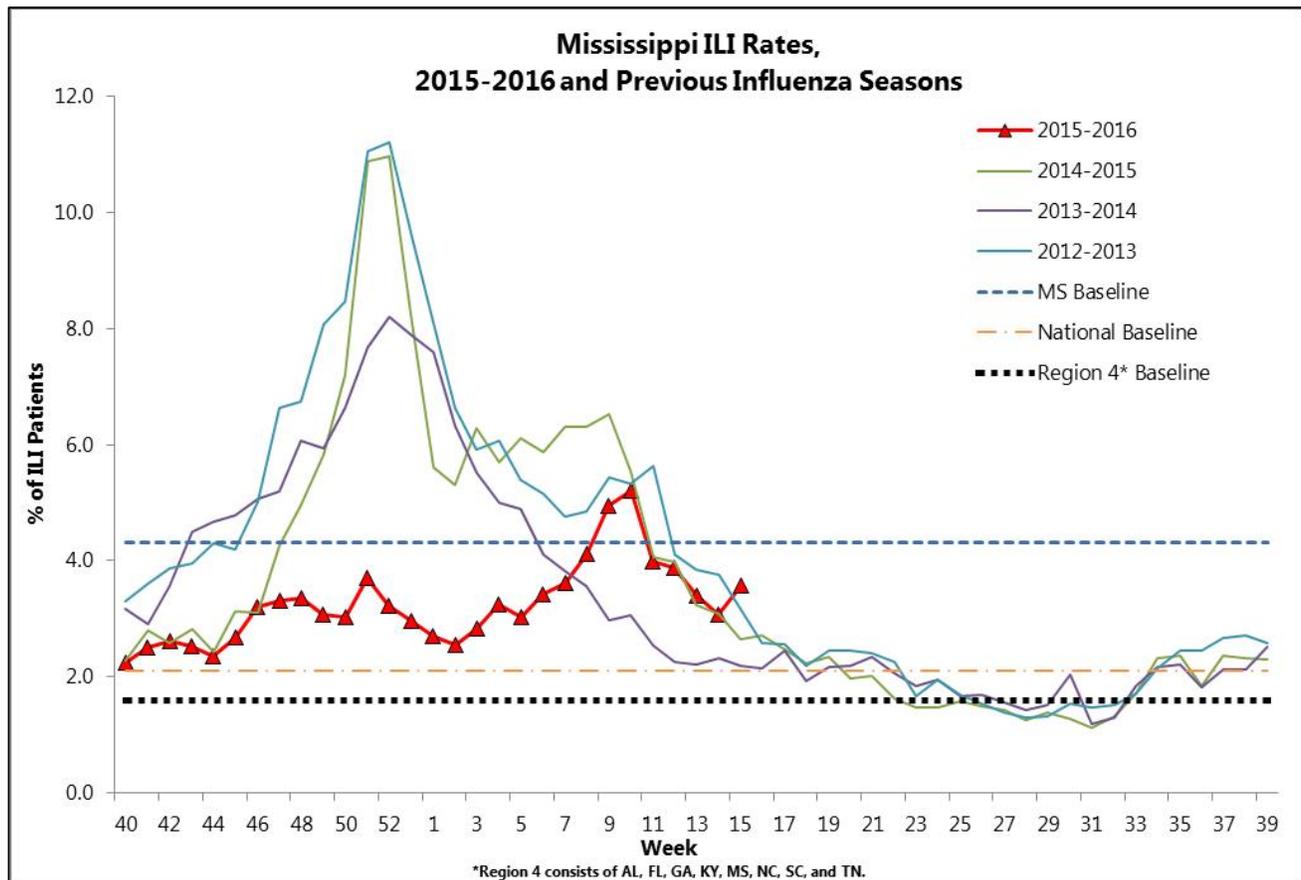
MSDH District ILI Rates (%) 2015-2016		
District	Week 14	Week 15
State	3.1	3.6
I	2.3	1.8
II	2.6	4.4
III	5.6	4.3
IV	3.4	3.9
V	2.6	2.2
VI	5.3	6.5
VII	2.9	3.0
VIII	3.1	3.3
IX	3.0	5.0



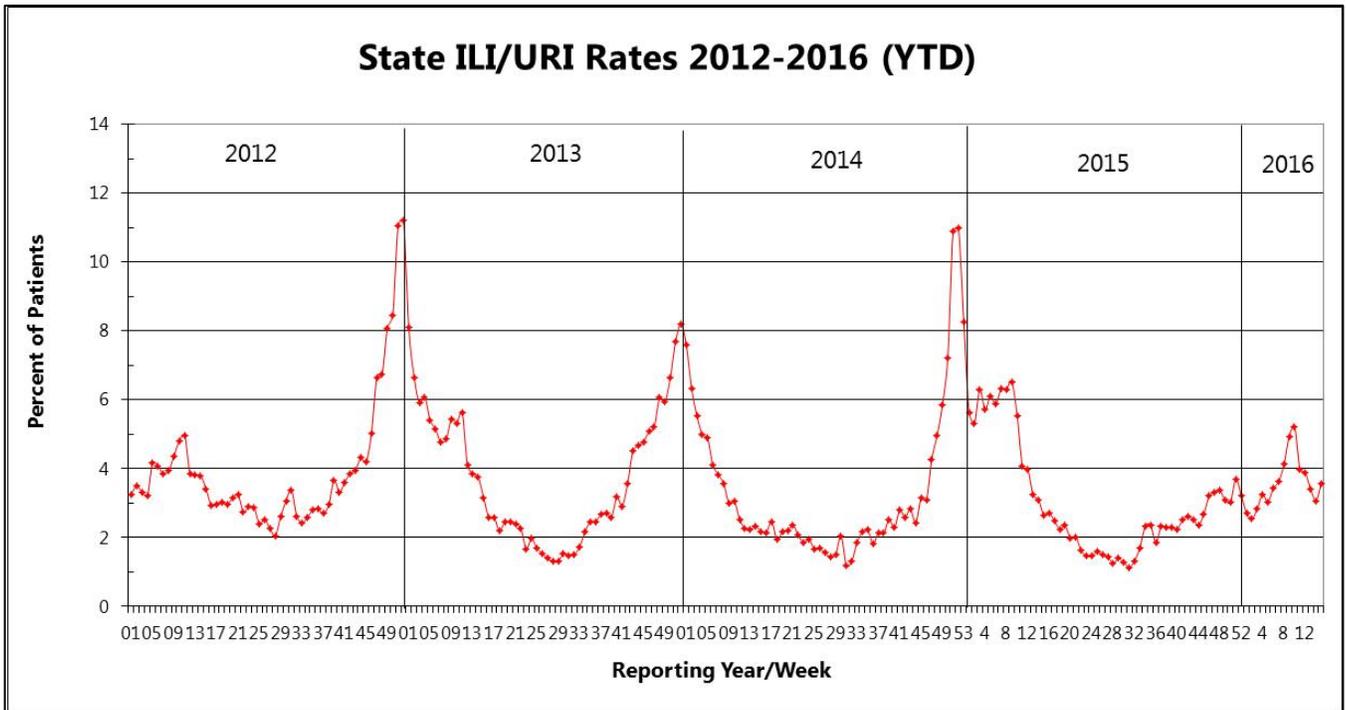
Overall, the percentage of reported ILI cases has been highest among those in the **0-4** and **5-24 years** of age groups. This trend continued during week **15**.

| [Figure 2](#)

The 2015-16 state ILI rate was **above** the national and Region 4 baselines, but was **below** the state baseline, for week **15**. | [Figure 3](#)



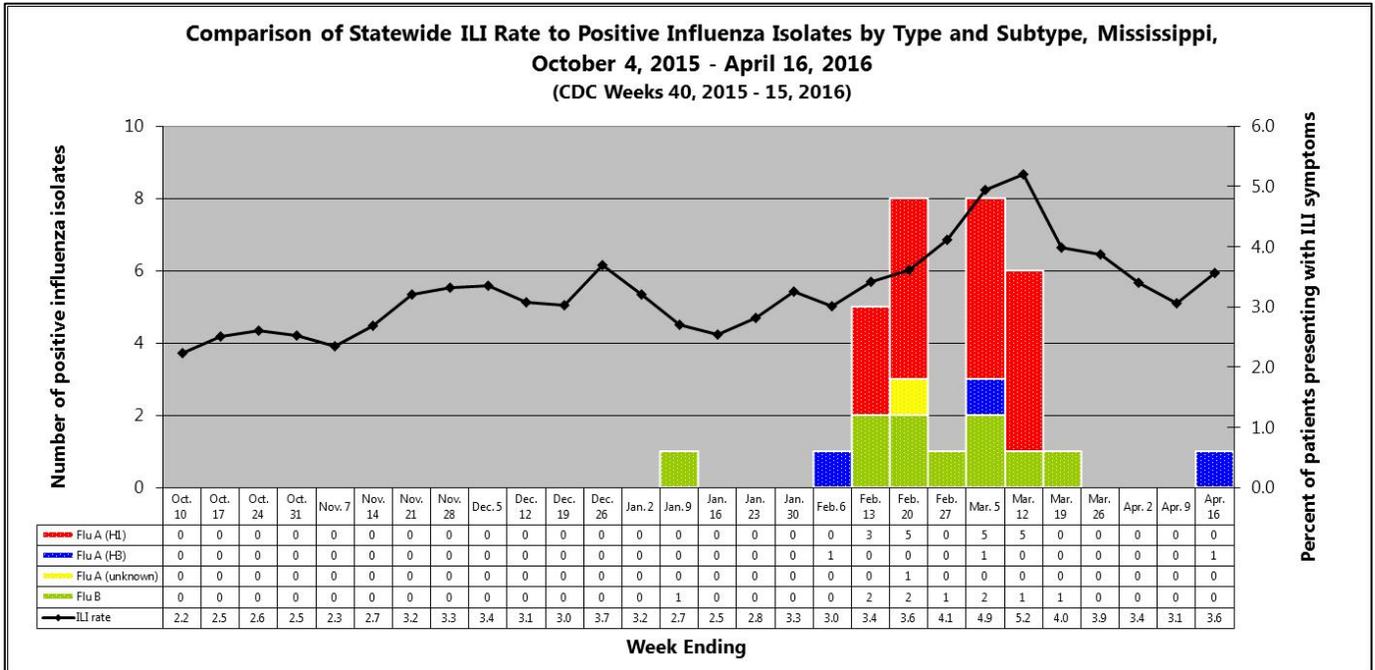
Mississippi ILI Rates 2012-2016 | [Figure 4](#)



### Flu Testing Reports

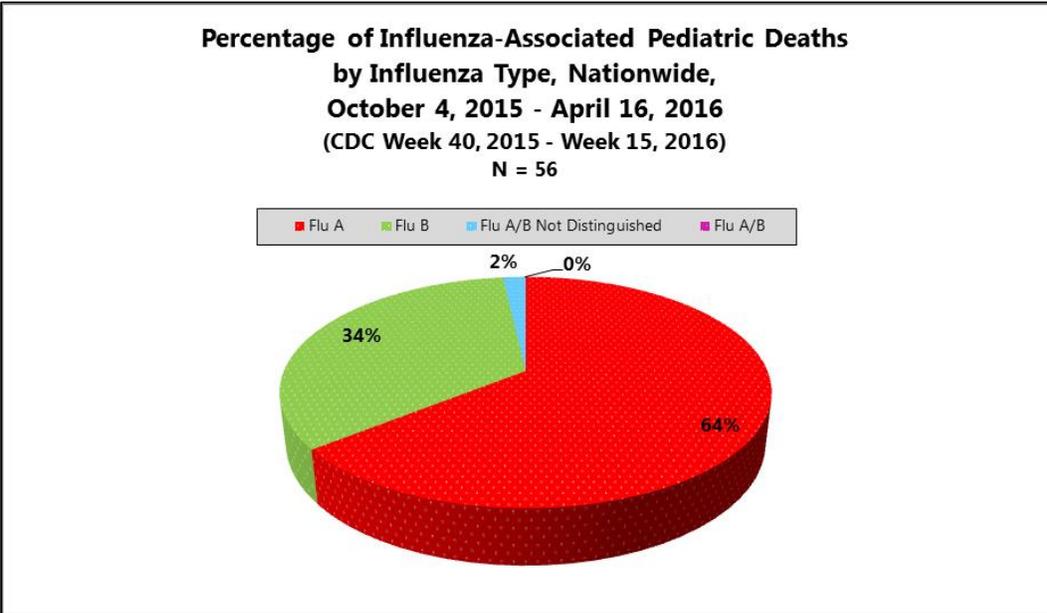
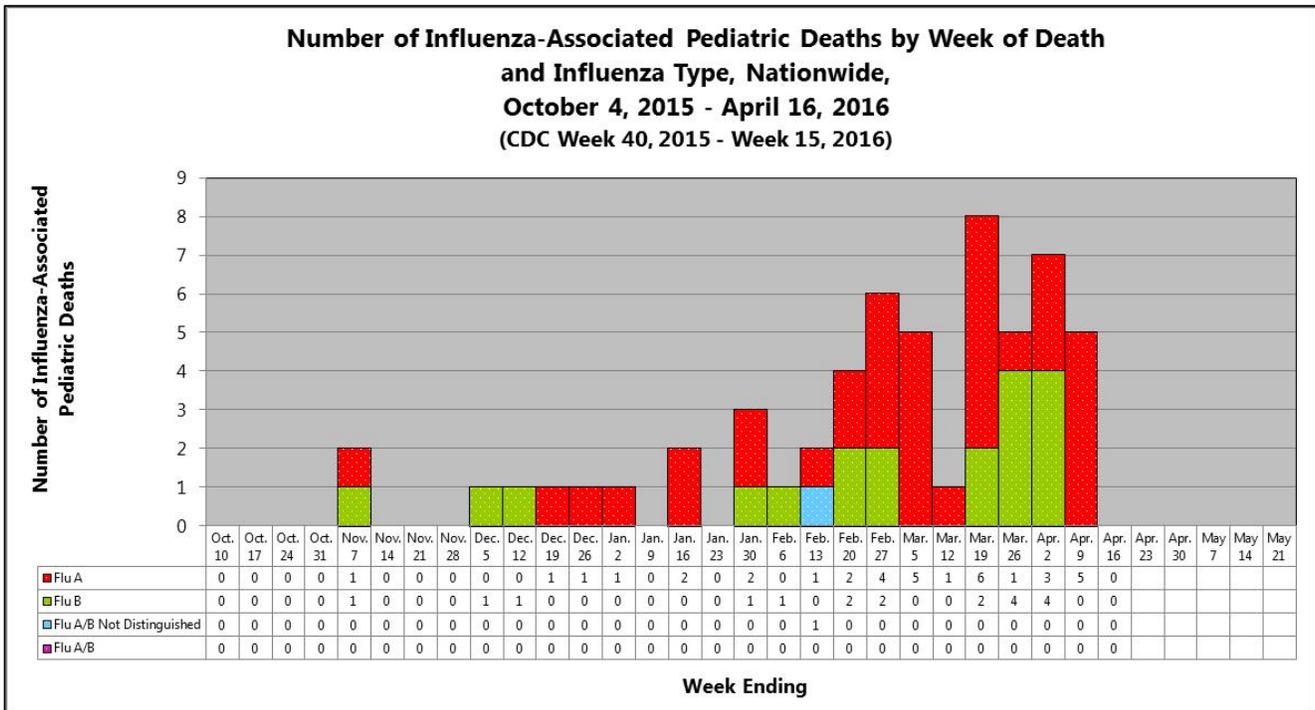
From week **40** (week ending October 10<sup>th</sup>) through week **15** (week ending April 16<sup>th</sup>), 32 positive influenza samples were identified by MSDH. Eighteen (56%) samples were identified as influenza A (H1), three (9%) as influenza A (H3), one (3%) as influenza A (unknown), and ten (31%) were identified as influenza B. | [Figure 5](#)

The influenza cases were identified from the following counties: Chickasaw (1), Copiah (1), Covington (1), Forrest (1), Humphreys (3), Jones (2), Lafayette (7), Lawrence (1), Leake (2), Lee (1), Marshall (5), Monroe (2), Oktibbeha (1), Pontotoc (3), and Washington (1).



### National and Mississippi Pediatric Mortality Surveillance

Nationally, **six** influenza-associated pediatric deaths were reported to CDC during week **15**. Three deaths were associated with an influenza A (H1N1)pdm09 virus and occurred during weeks 13 and 14 (weeks ending April 2<sup>nd</sup> and April 9<sup>th</sup>) and two deaths were associated with an influenza A virus for which no subtyping was performed and occurred during week 14 (week ending April 9<sup>th</sup>). One death was associated with an influenza B virus and occurred during week 12 (week ending March 26<sup>th</sup>). **Fifty-six** influenza-associated pediatric deaths have been reported during the 2015-2016 season. | [Figure 6](#)



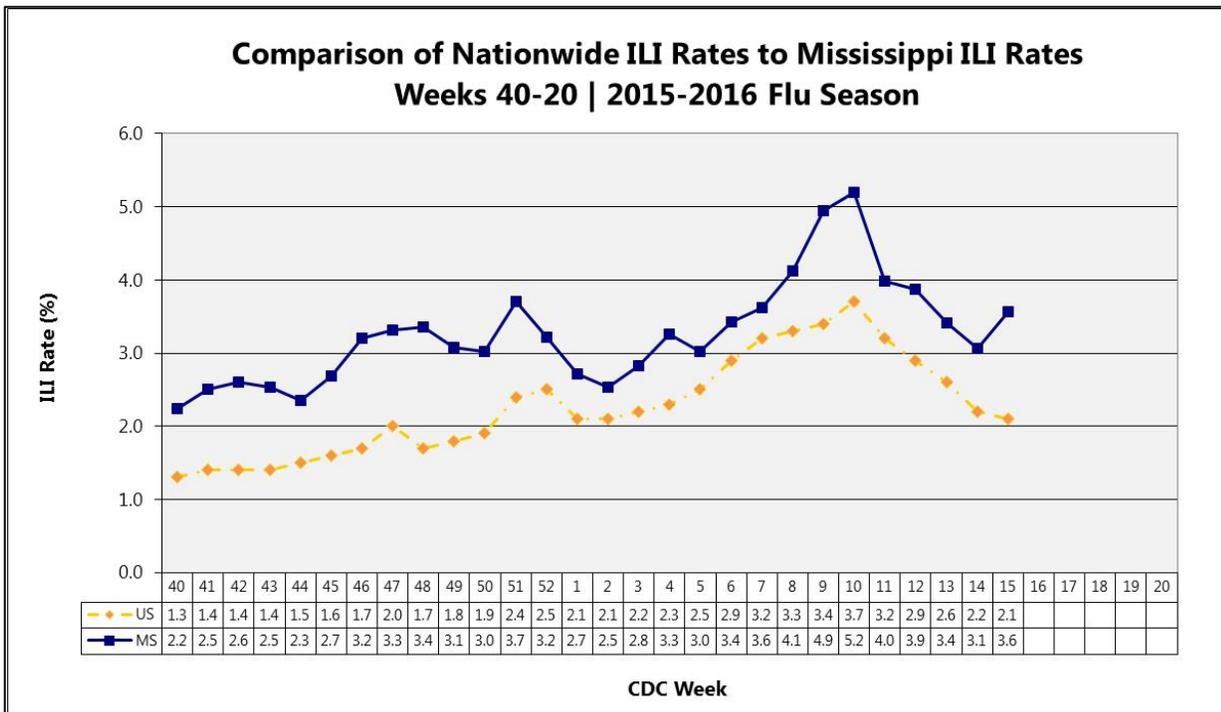
Of the **56** influenza-associated pediatric deaths reported nationally during the 2015-2016 season, 36 (64%) have been attributed to influenza A viruses, 19 (34%) to influenza B viruses, and one (2%) to an influenza A/B virus.

| [Figure 7](#)

Mississippi has had **one** influenza-associated pediatric death reported during this influenza season. For additional information on influenza-associated pediatric deaths, please refer to the [CDC's FluView](#).

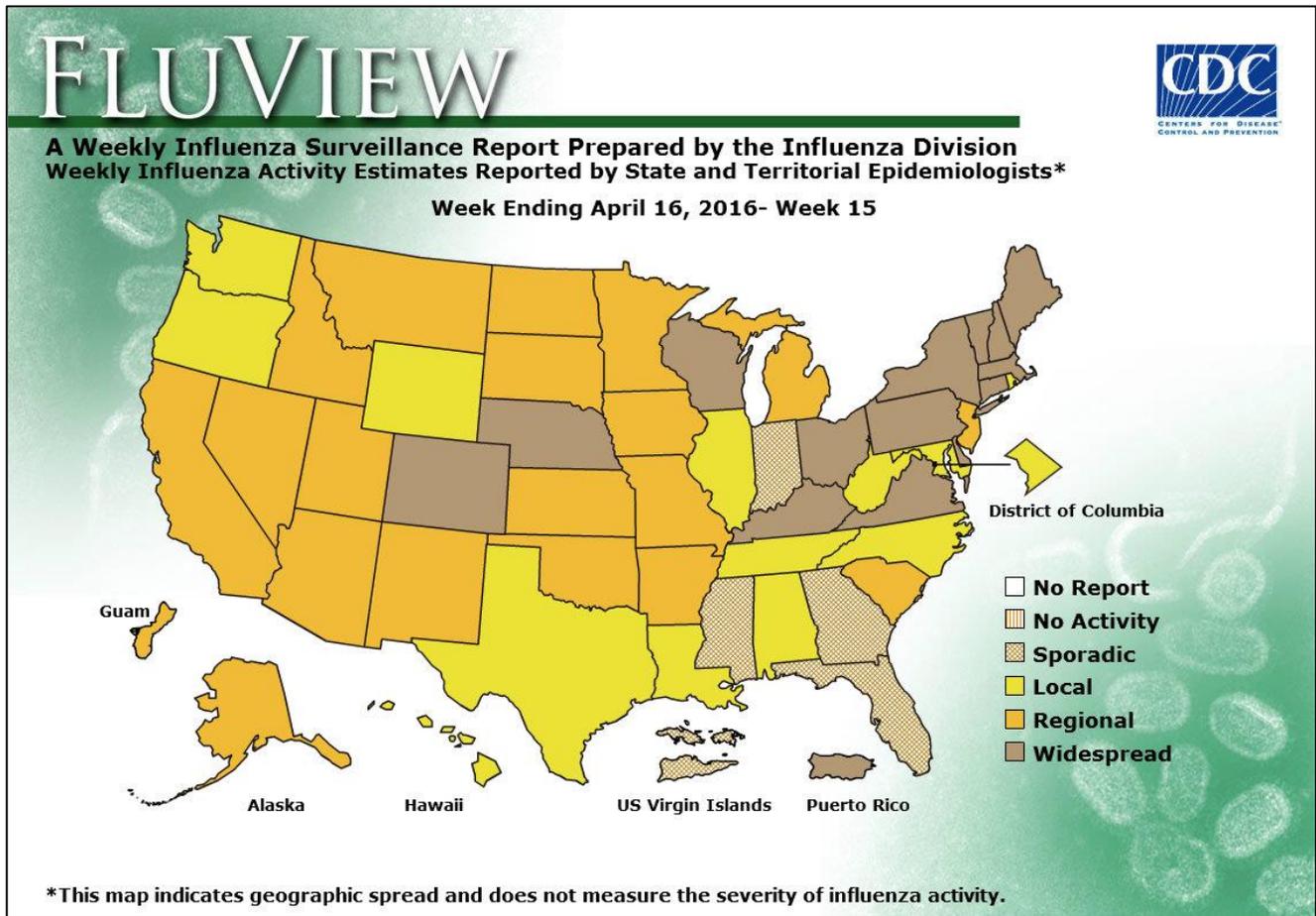
**National ILI Surveillance**

For week **15**, the MS ILI rate (3.6%) was **above** the national ILI rate (2.1%) | [Figure 8](#)



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

During week **15**, influenza activity **decreased** in the United States.<sup>1</sup> | [Figure 9](#)



<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 “**Sporadic**” for the influenza activity during week **15**. | **Table 3**

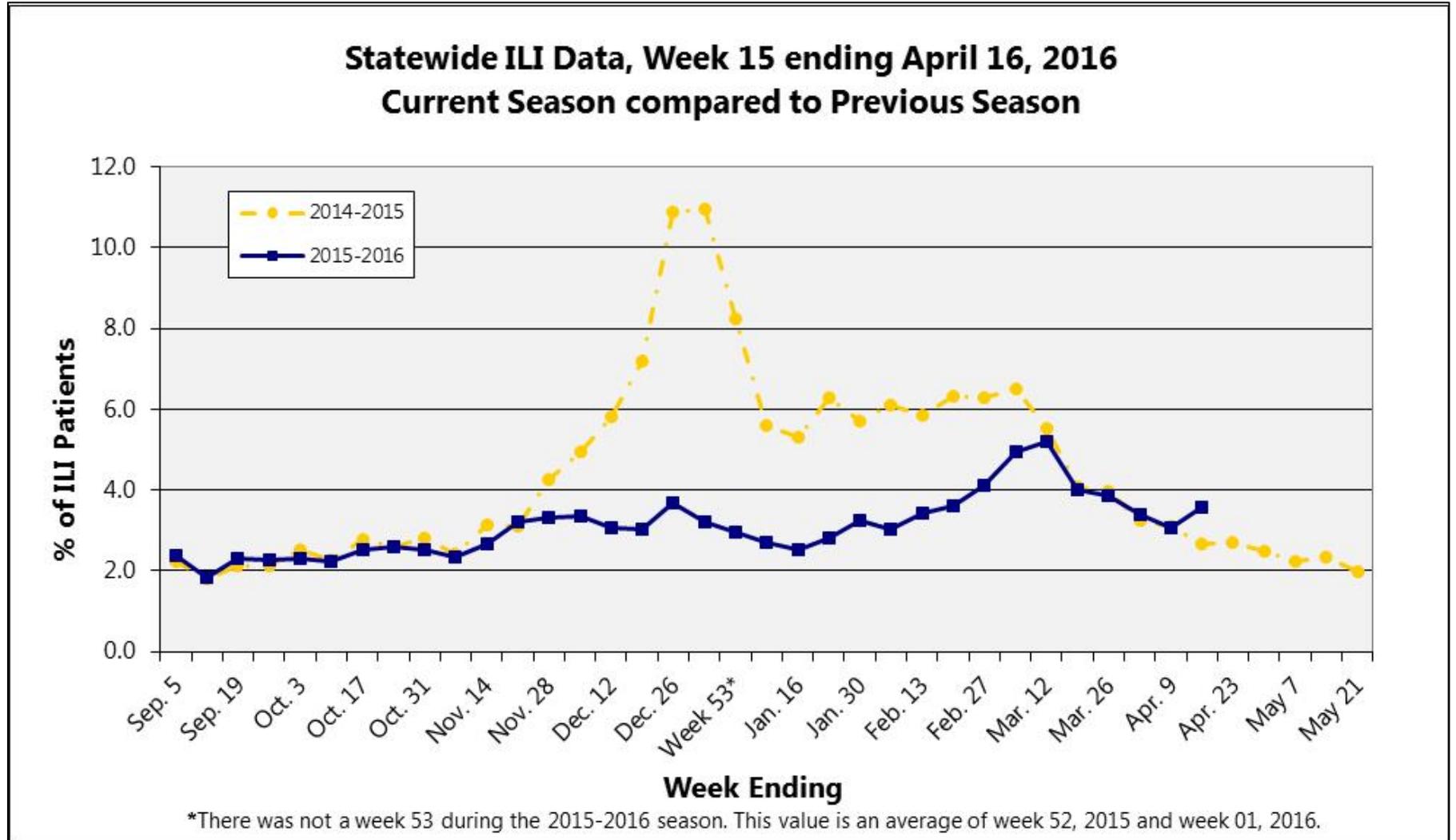
Level of Flu Activity	Definition
<b>No Activity</b>	Overall clinical activity remains low and there are no lab confirmed cases.
<b>Sporadic</b>	Isolated cases of lab confirmed influenza in the state; ILI activity is not increased <u>OR</u> A lab-confirmed outbreak in a single institution in the state; 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:**

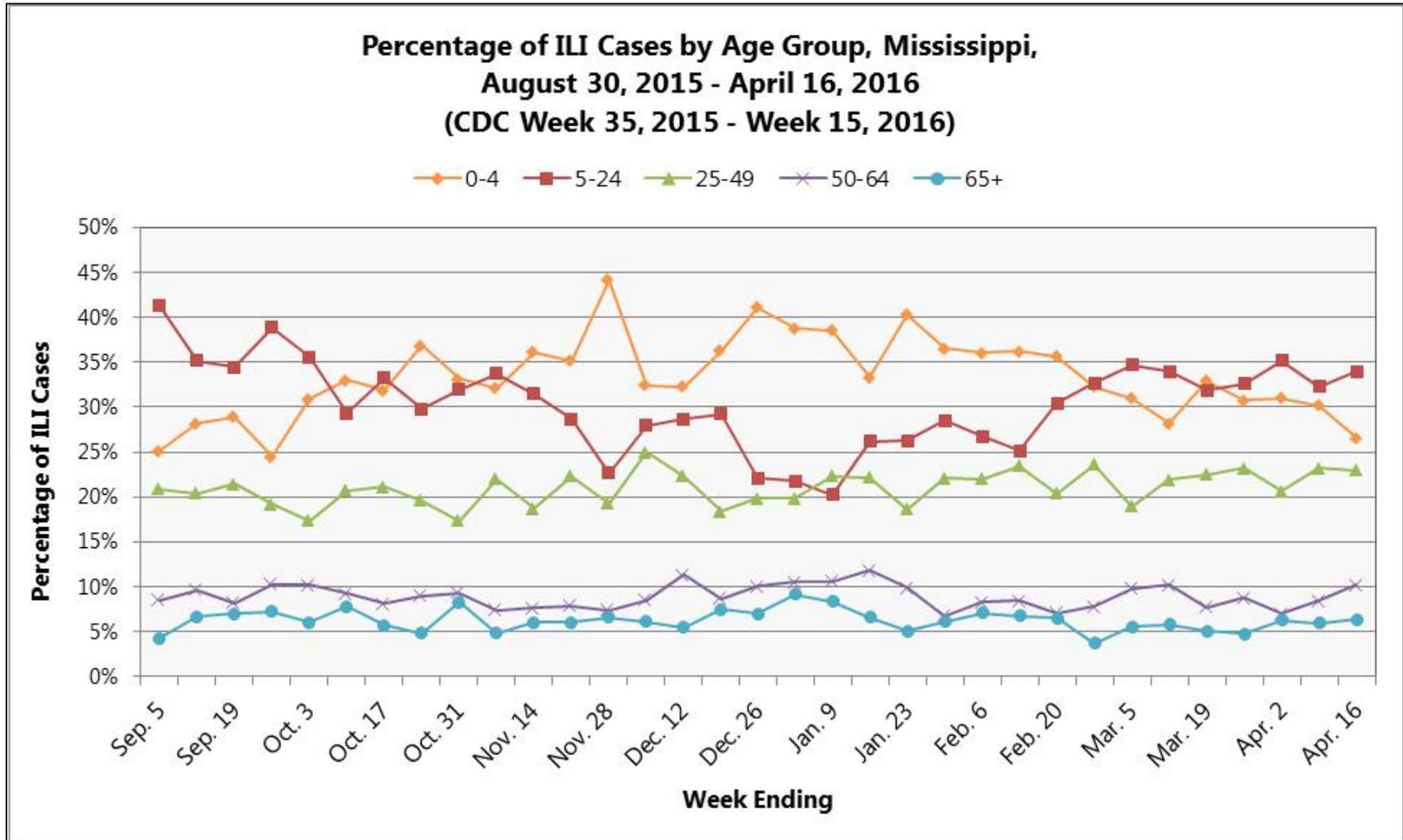
<b>Centers for Disease Control and Prevention</b>	<a href="http://cdc.gov/flu/">http://cdc.gov/flu/</a>
<b>Centers for Disease Control and Prevention FluView</b>	<a href="http://www.cdc.gov/flu/weekly/">http://www.cdc.gov/flu/weekly/</a>
<b>Flu.gov</b>	<a href="http://www.flu.gov/">http://www.flu.gov/</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**

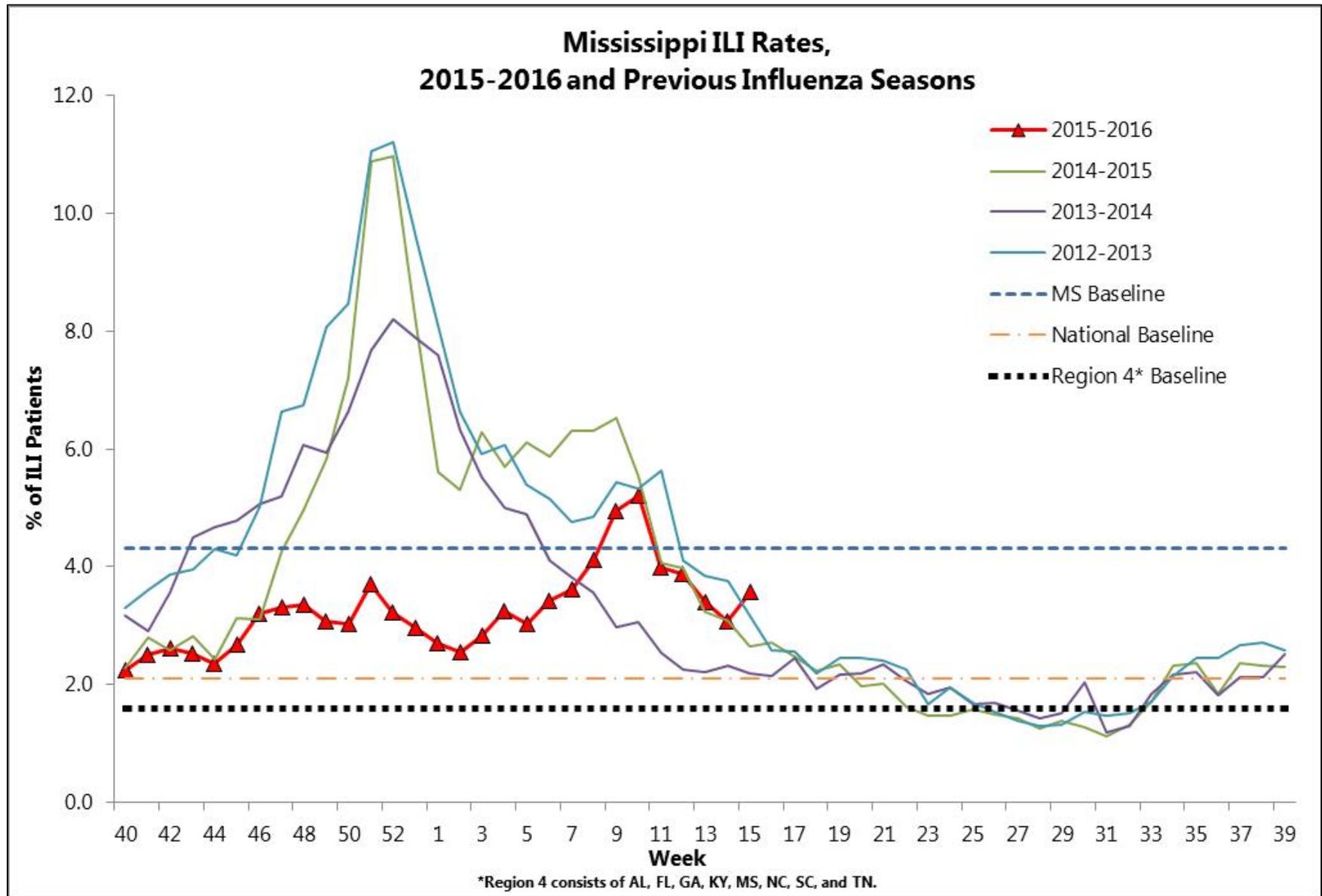
**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**

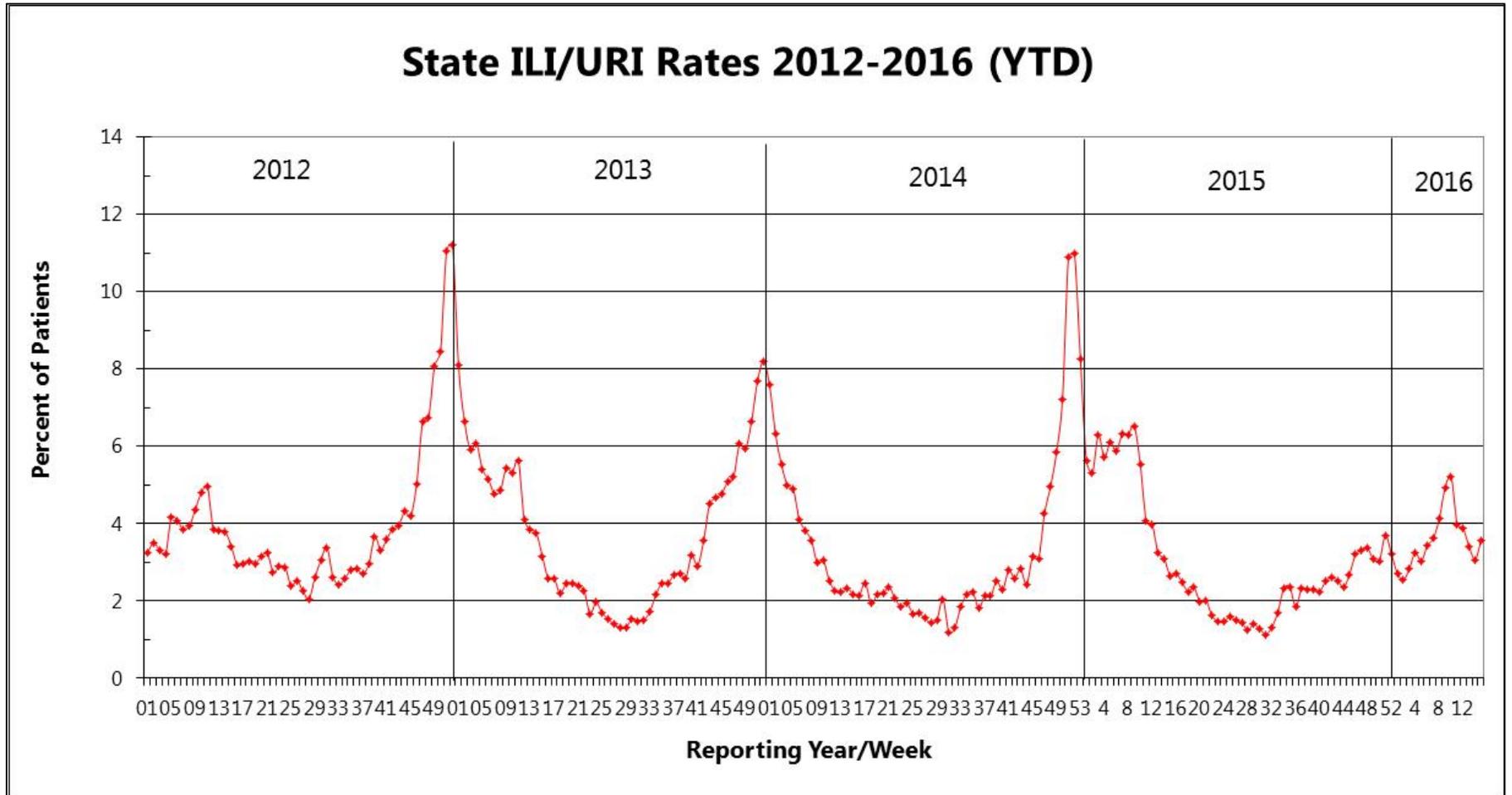


Figure 5

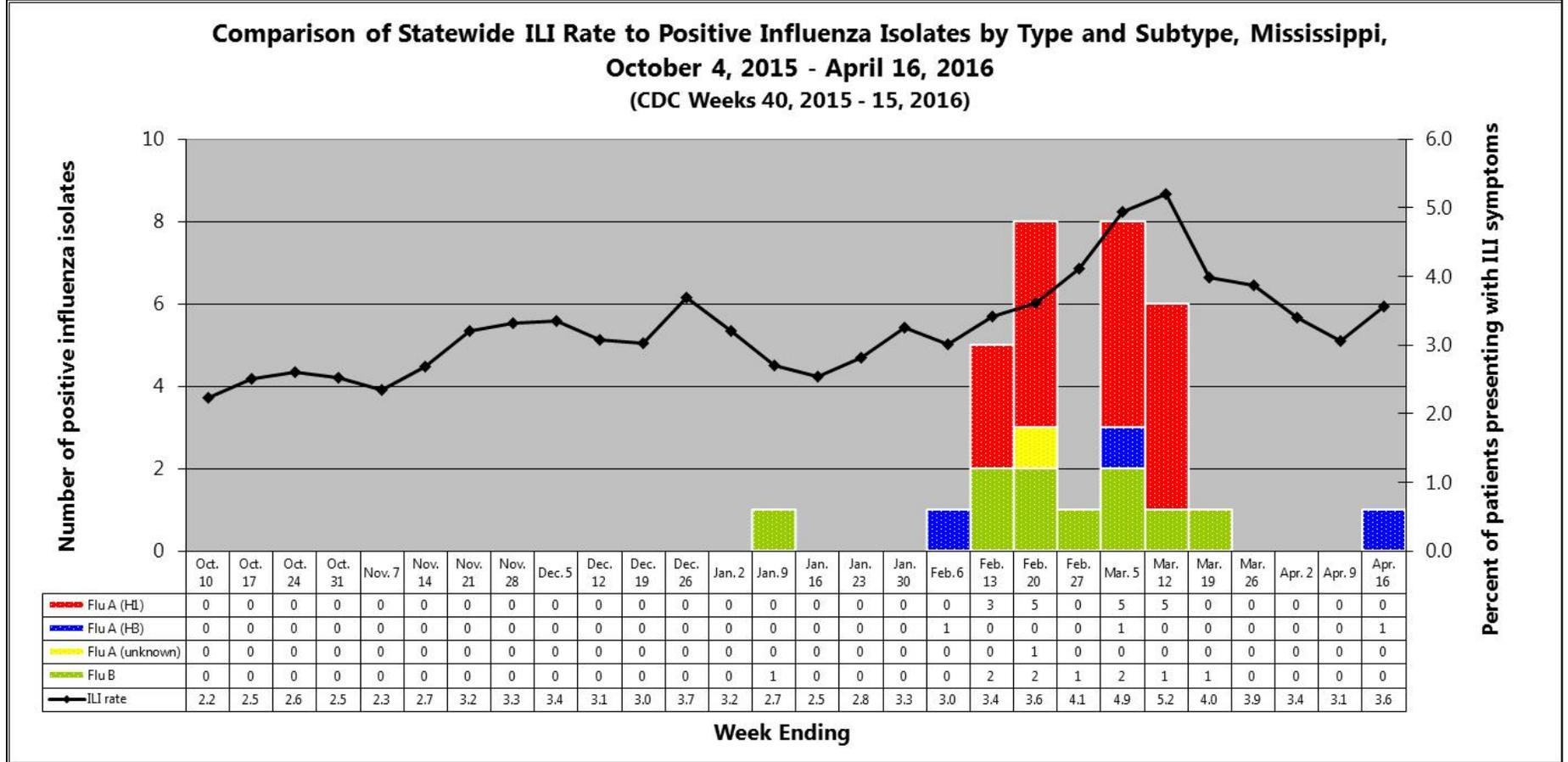
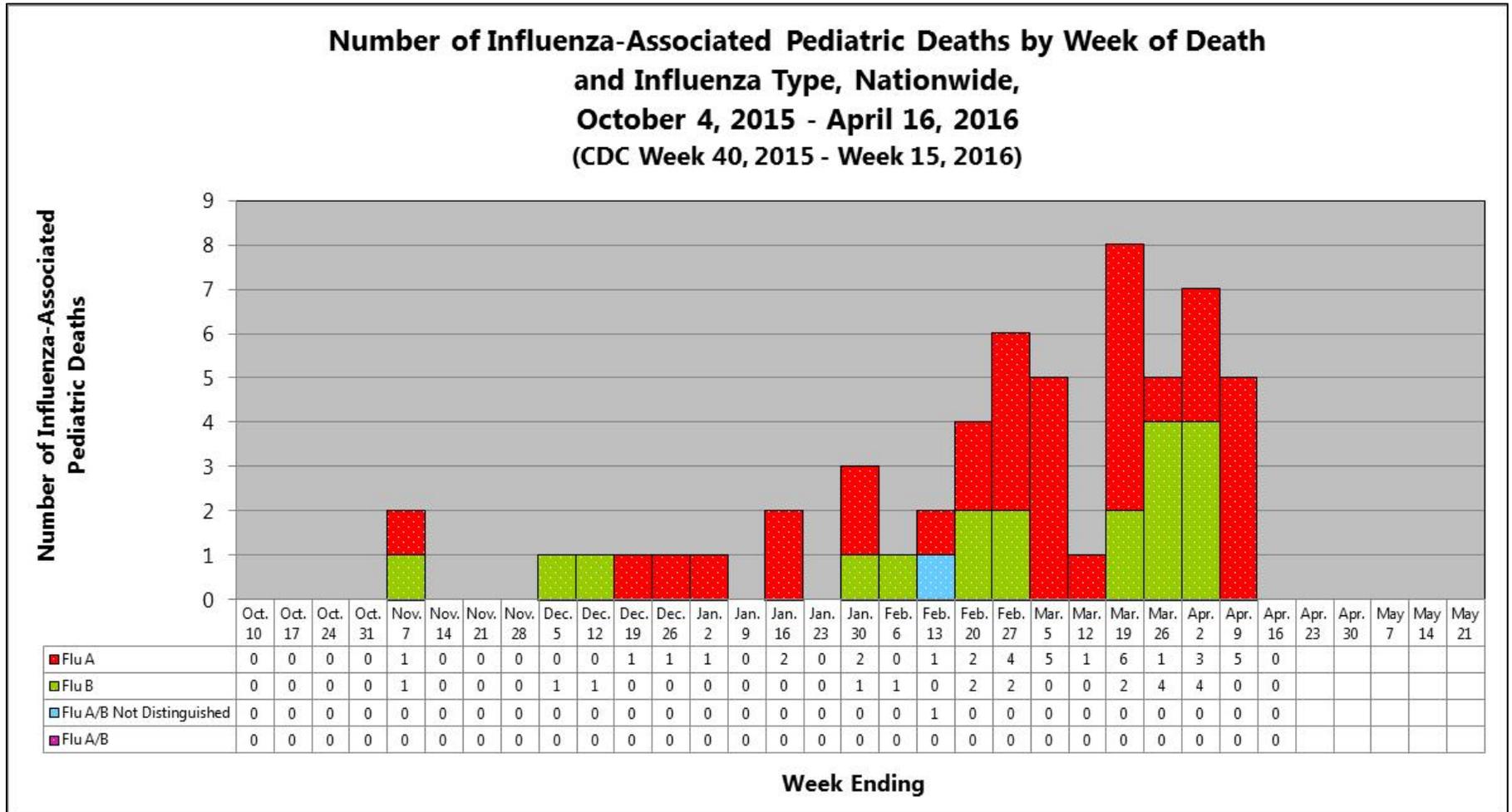


Figure 6



**Figure 7**

**Percentage of Influenza-Associated Pediatric Deaths  
by Influenza Type, Nationwide,  
October 4, 2015 - April 16, 2016  
(CDC Week 40, 2015 - Week 15, 2016)  
N = 56**

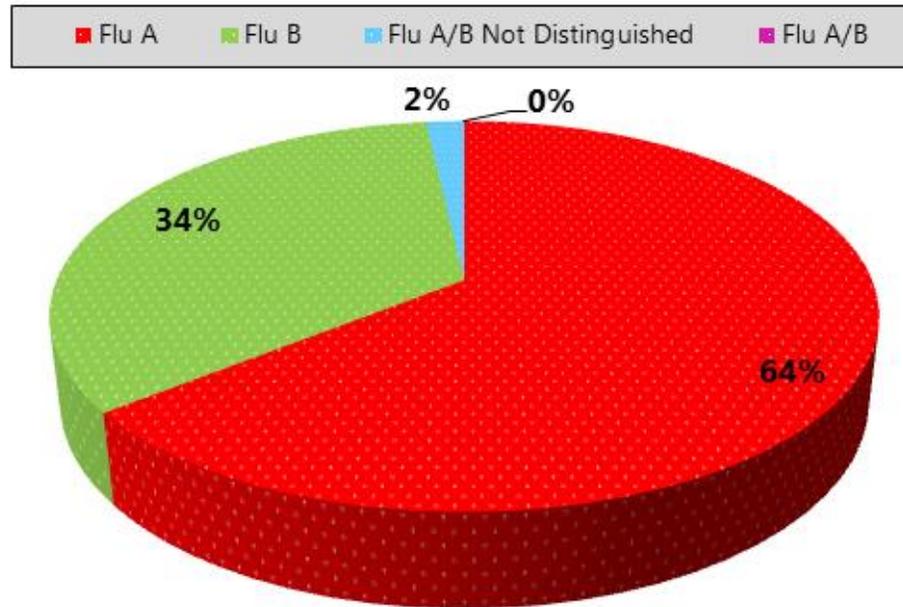


Figure 8

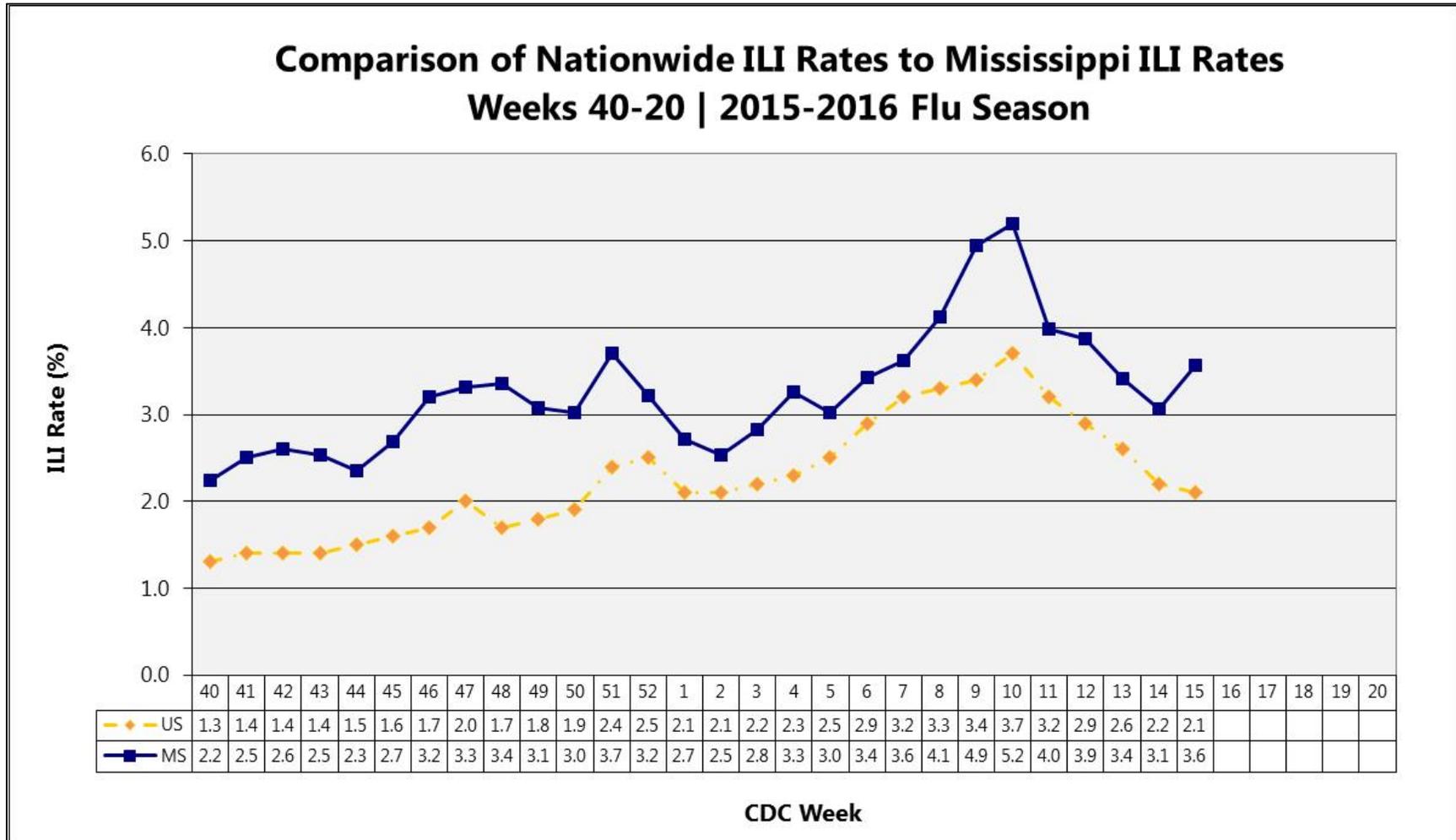


Figure 9

