



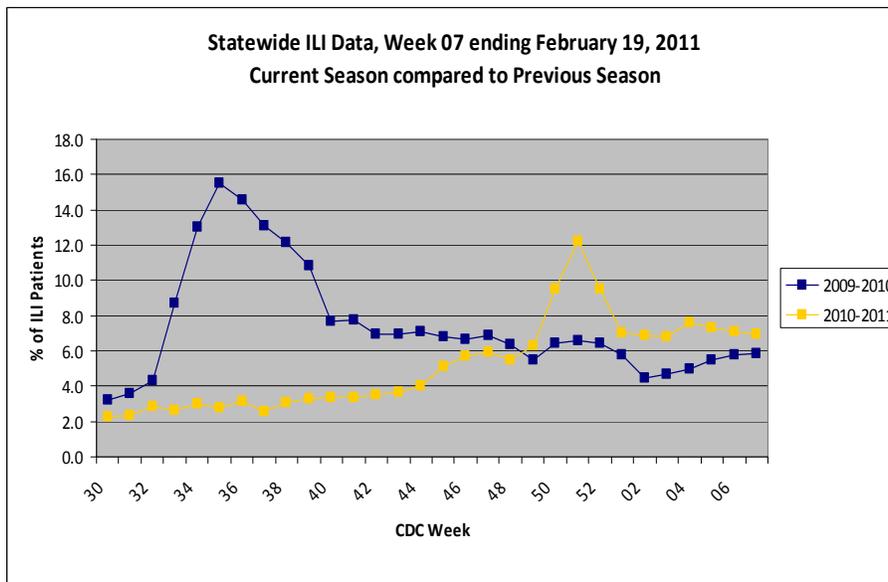
2010-2011 Influenza Report Week 07

February 13 – February 19, 2011

About our flu activity reporting

MSDH relies upon selected sentinel health practitioners across the state to report the percentage of non-trauma visits consistent with an influenza-like illness (ILI; fever > 100°F 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.**

State ILI Surveillance



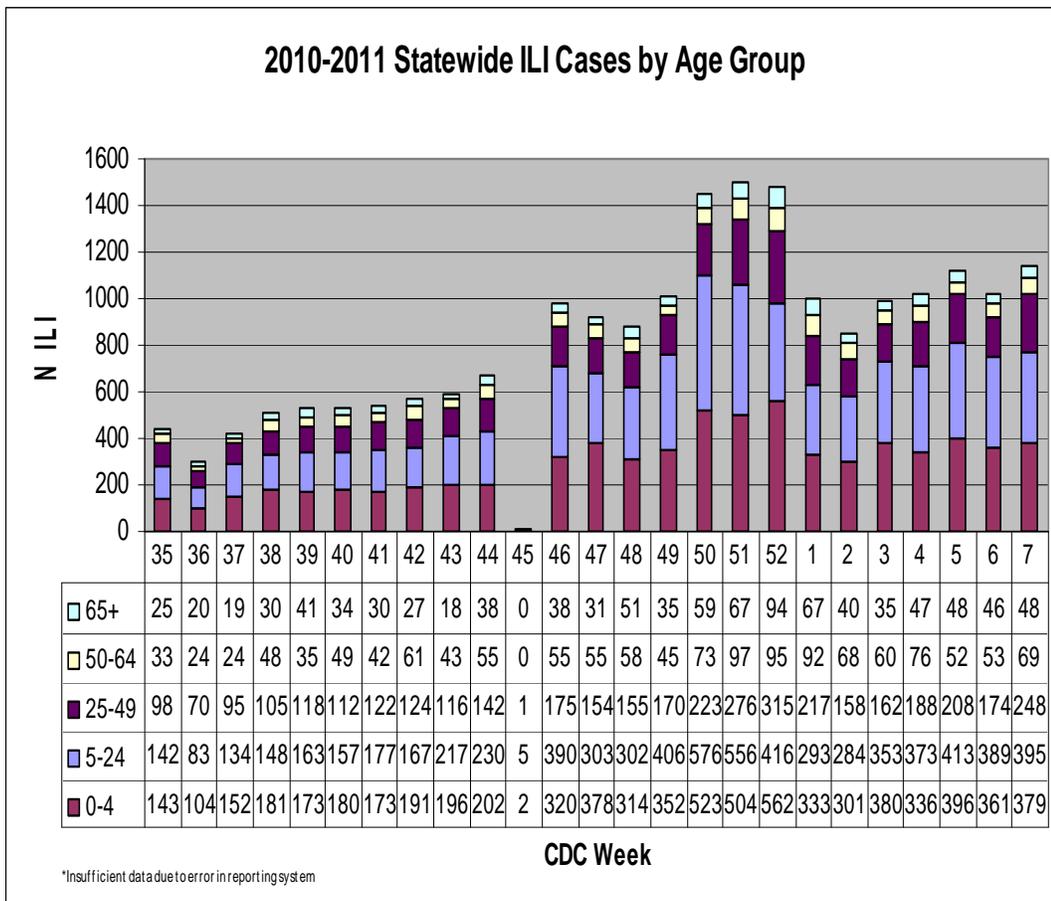
For week 7 (02/13/2011-02/19/2011), the overall state ILI rate (7.0%) was comparable compared to last week (7.1%) but higher compared to this time last year (5.8%). | **Figure 1**

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

| 2010-2011 Influenza Season | | | | |
|----------------------------|--------------------|---------------------|--------------|--------------|
| CDC Week | Week Ending | Non-trauma patients | ILI symptoms | ILI Rate (%) |
| 7 | February 19 | 16443 | 1148 | 7.0 |
| 6 | February 12 | 15264 | 1087 | 7.1 |
| 5 | February 5 | 15642 | 1140 | 7.3 |

During week 7, five districts (1, 5, 6, 8, and 9) had an increase in ILI activity; four districts (2, 3, 4, and 7) had a decrease. *Information is provisional only and may change depending on additional reporting from sentinel providers.* | **Table 2**

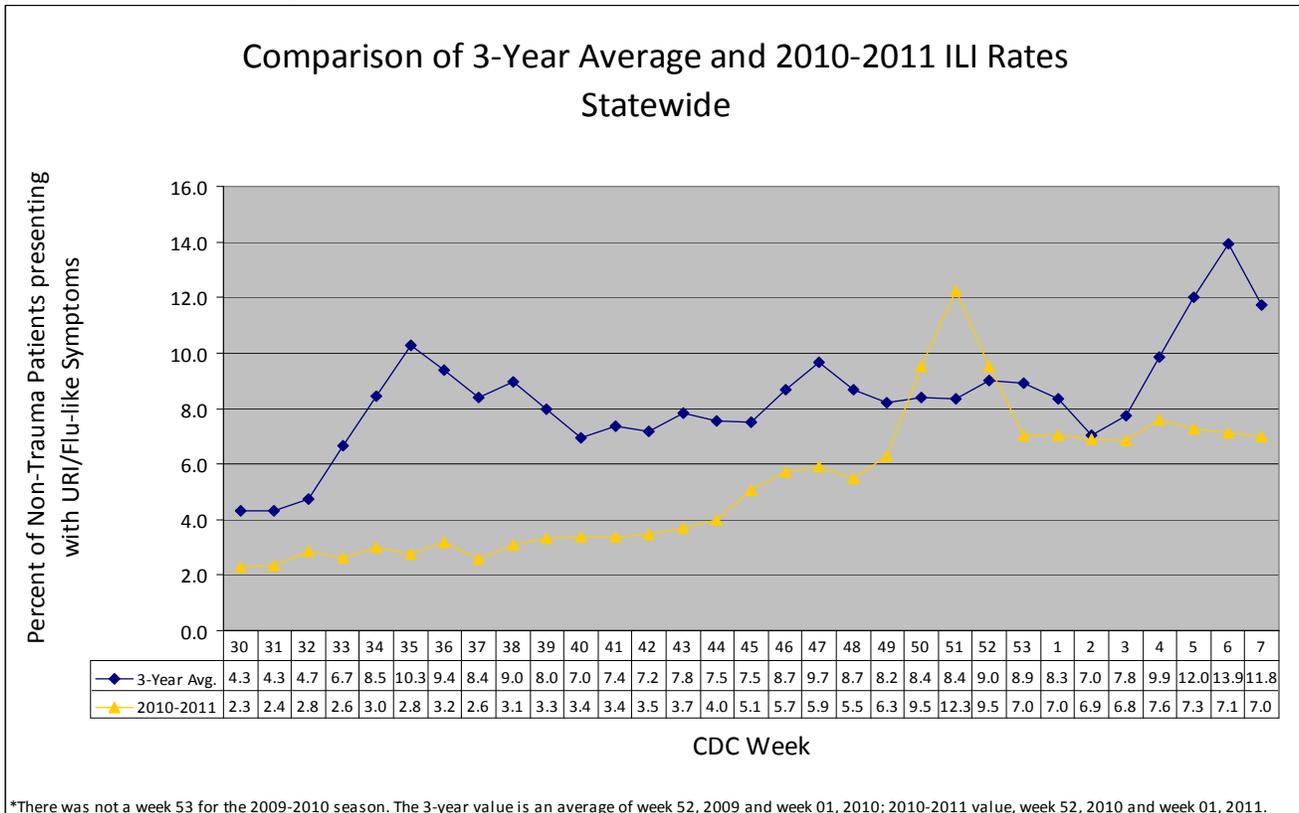
| MSDH District ILI Rates (%) 2010-2011 | | |
|--|--------|--------|
| District | Week 6 | Week 7 |
| State | 7.1 | 7.0 |
| 1 | 5.4 | 5.9 |
| 2 | 42.3 | 22.5 |
| 3 | 8.1 | 6.0 |
| 4 | 6.2 | 5.9 |
| 5 | 2.3 | 3.3 |
| 6 | 6.5 | 7.1 |
| 7 | 7.5 | 5.2 |
| 8 | 10.2 | 12.9 |
| 9 | 7.6 | 8.2 |



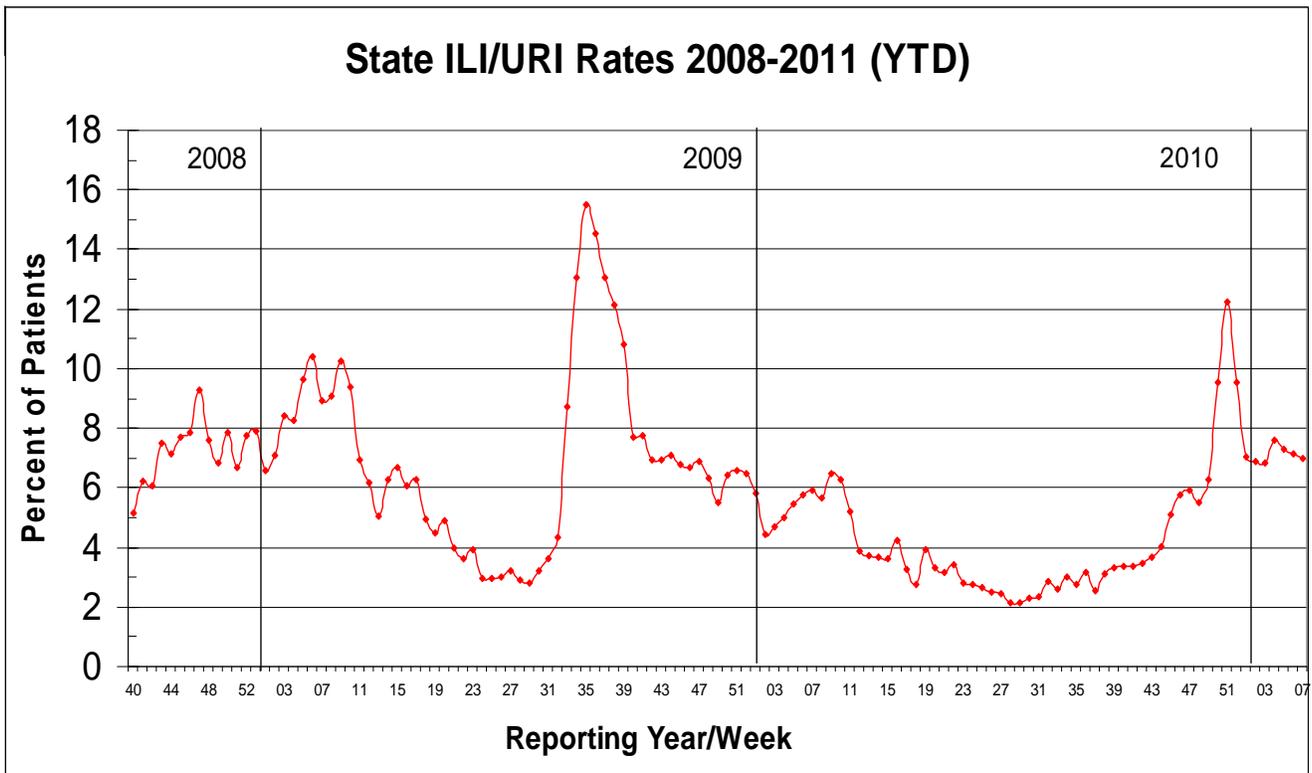
The number of reported ILI cases has been highest among people in the 0 years to 4 years of age group, followed by those in the 5 years to 24 years of age group. During Week 7, the number of reported ILI cases was highest among individuals in the 5 years to 24 years of age group. | **Figure 2**

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The 2010-11 state ILI rate was **below** baseline for week 7. Until Week 50, the state ILI rate had been below baseline for the past six months. | **Figure 3**

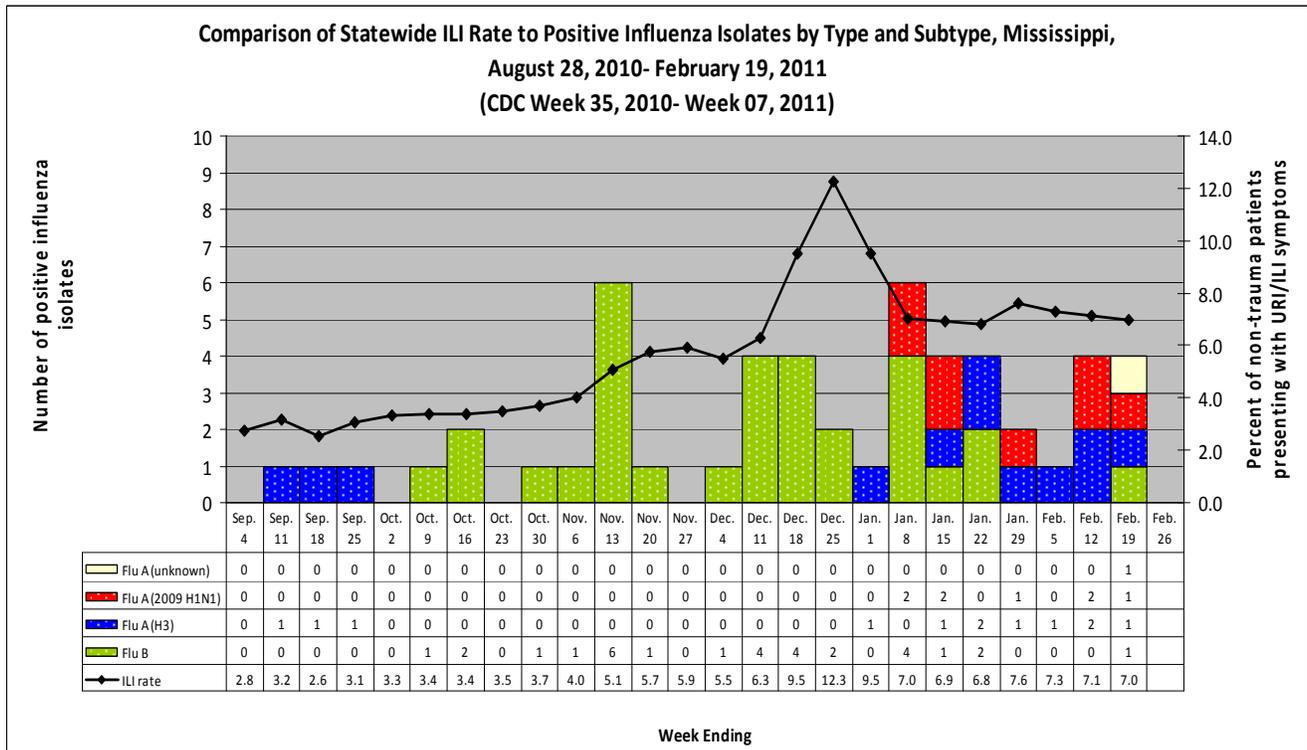


Mississippi ILI Rates 2008-2011 | Figure 4



Flu testing Reports

Since September, there have been **fifty-two** respiratory samples that were positive by influenza PCR testing. **Twelve** were positive for influenza A (H3N2), one of which had a documented travel history to Florida prior to the onset of symptoms and represented an imported case. **Eight** were positive for influenza A (2009 H1N1), one of which had a documented travel to Georgia prior to the onset of symptoms. **Thirty-one** confirmed cases were Flu B. **One** was positive for influenza A but was not sub-typed. Influenza cases were identified from the following counties: Adams, Attala, Carroll, Chickasaw, Clay, Hinds, Holmes, Jasper, Forrest, Grenada, Lamar, Lauderdale, Lawrence, Leake, Lincoln, Marion, Marshall, Monroe, Oktibbeha, Panola, Pike, Perry, Stone, Tate, and Yazoo. | **Figure 5**



Since September, there have been **four** laboratory confirmed, influenza-related hospitalizations reported in Mississippi. Two cases were positive for influenza A (H3N2); the other, flu B. The remaining case was positive for influenza A (2009 H1N1). To date, there have been no reported influenza-related deaths. | **Table 3**

2010-2011 Laboratory-Confirmed Influenza Hospitalizations and Deaths

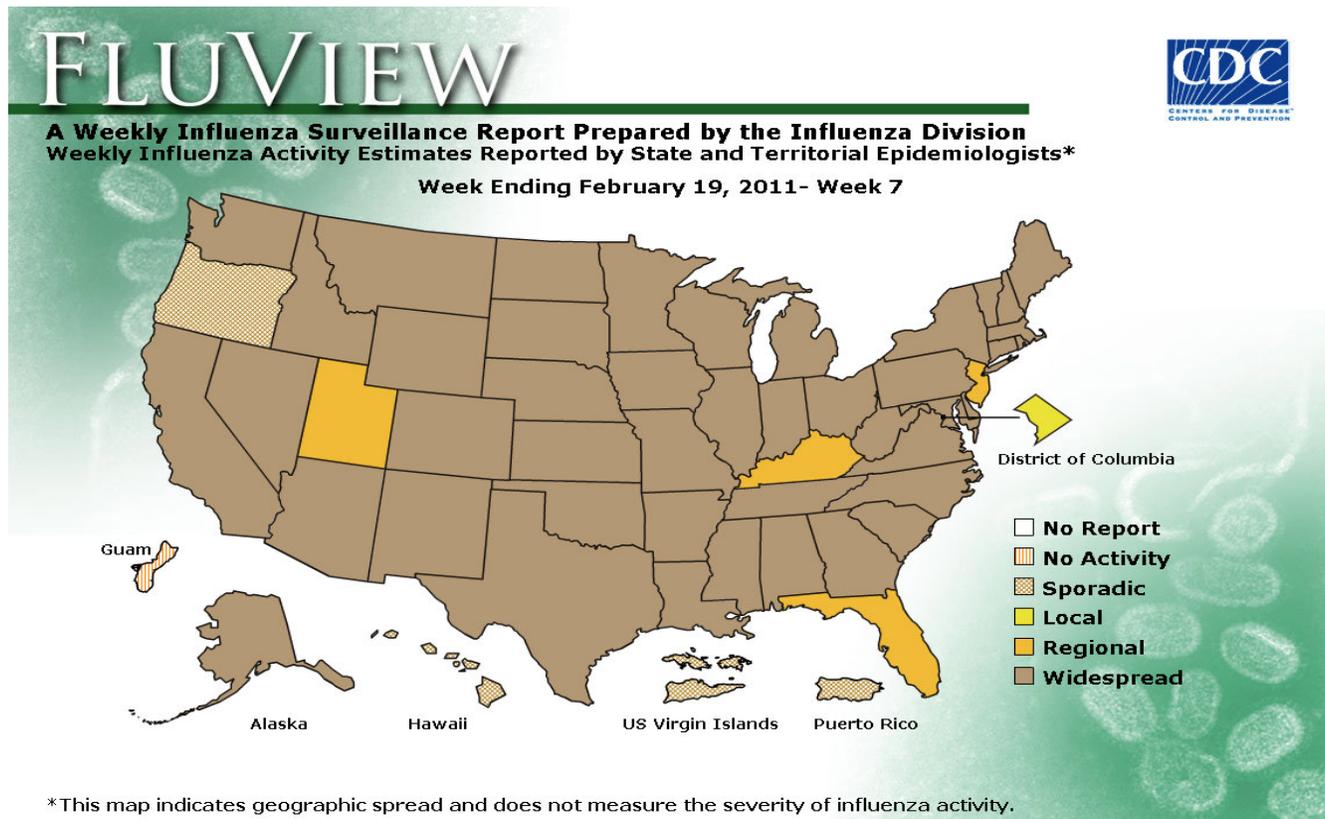
| Age Group | A (2009 H1N1) | A (H3N2) | A (unknown) | B | Deaths |
|-----------|------------------|-------------|----------------|---|--------|
| 0-4 | 0 | 0 | 0 | 0 | 0 |
| 5-24 | 0 | 0 | 0 | 0 | 0 |
| 25-49 | 0 | 1 | 0 | 0 | 0 |
| 50-64 | 0 | 1 | 0 | 1 | 0 |
| >65 | 1 | 0 | 0 | 0 | 0 |

National ILI Surveillance

Mississippi reported “Widespread” activity for week 7. | Table 2

| 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. |

During week 7 (February 13 – February 19, 2011), influenza activity in the United States remained elevated¹ | Figure 6



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¹For up-to-date information on flu activity nationwide, please refer to the CDC's website:

<http://www.cdc.gov/flu/weekly/fluactivity.htm>

Additional information:

| | |
|--|---|
| Centers for Disease Control and Prevention | http://cdc.gov/flu/ |
| Flu.gov | http://www.flu.gov/ |
| MSDH Flu and Pneumonia | http://msdh.ms.gov/msdhsite/_static/14,0,199.html |
| Google Flu Trends | http://www.google.org/flutrends/ |
| World Health Organization FluNet | http://www.who.int/csr/disease/influenza/influenzane트워크/flunet/en/ |

Appendix

Figure 1

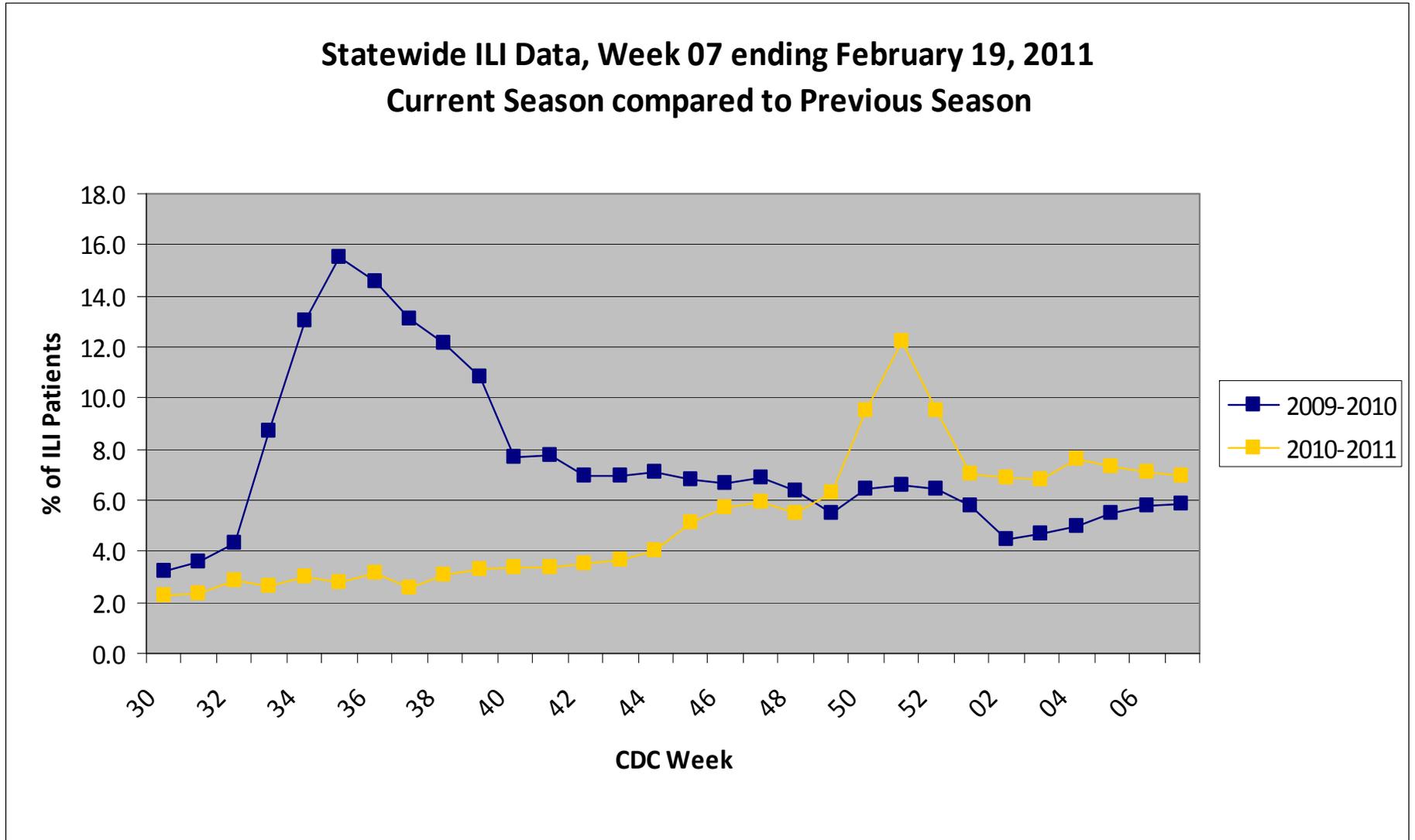


Figure 2

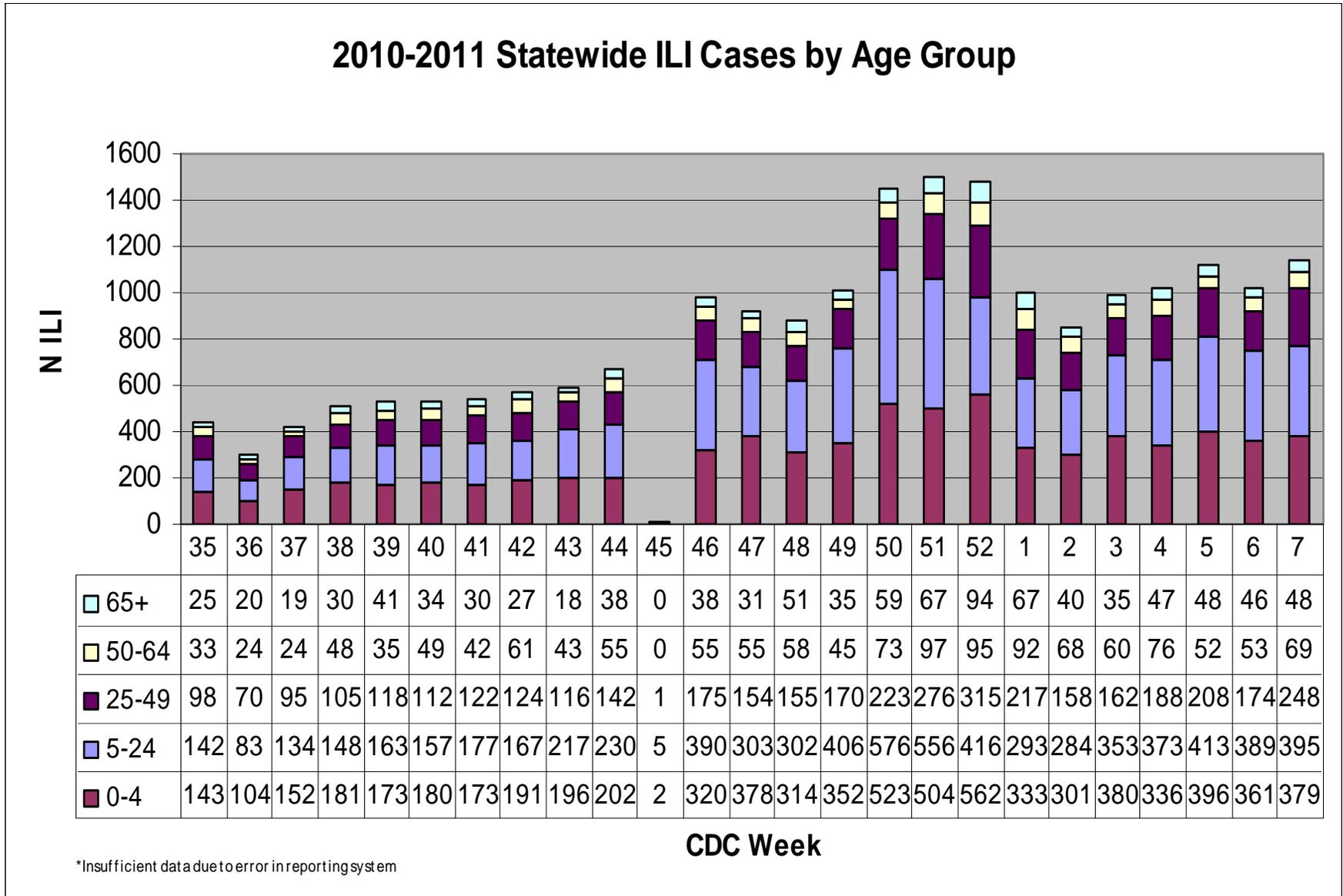


Figure 3

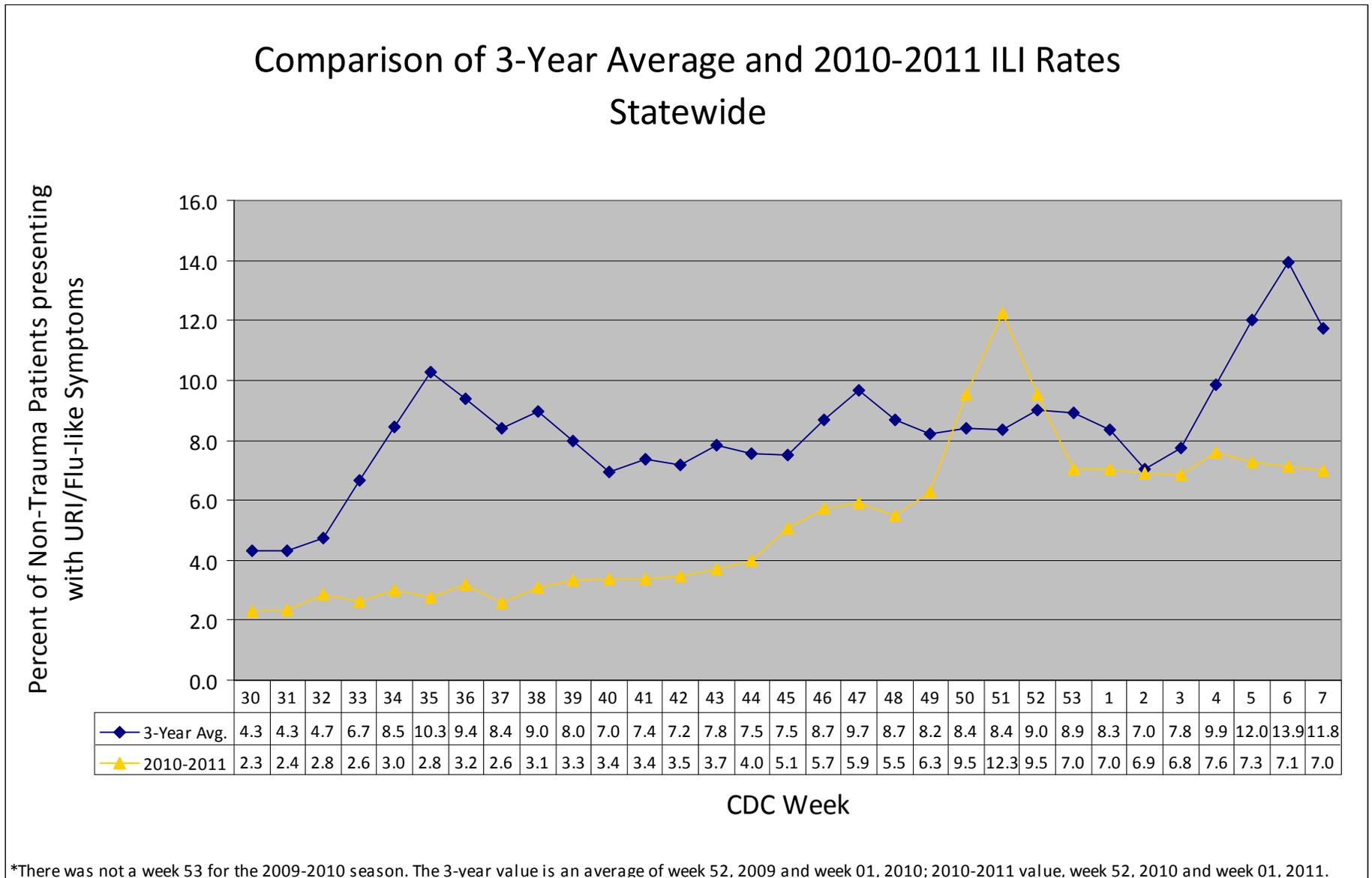


Figure 4

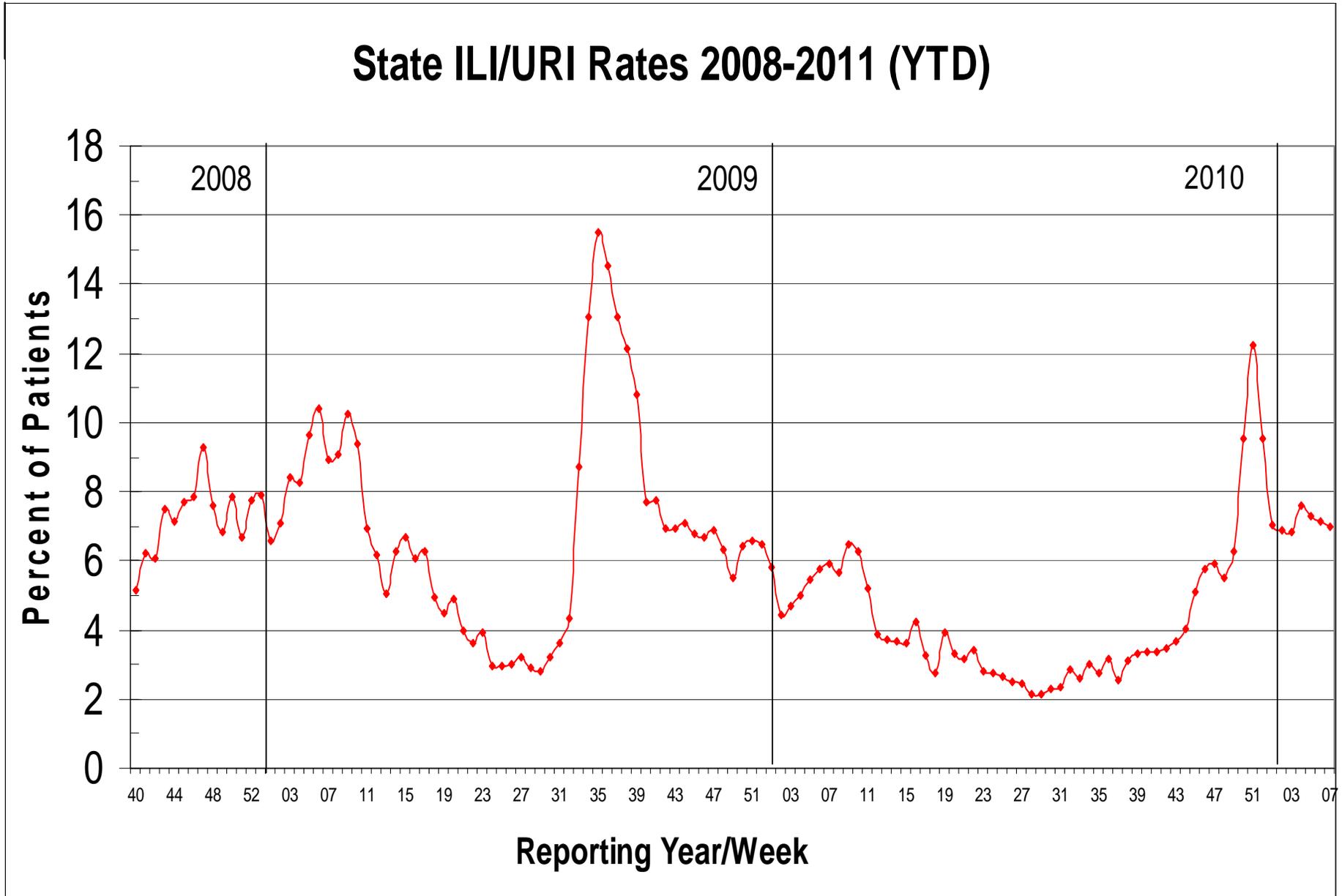


Figure 5

Comparison of Statewide ILI Rate to Positive Influenza Isolates by Type and Subtype, Mississippi,
 August 28, 2010- February 19, 2011
 (CDC Week 35, 2010- Week 07, 2011)

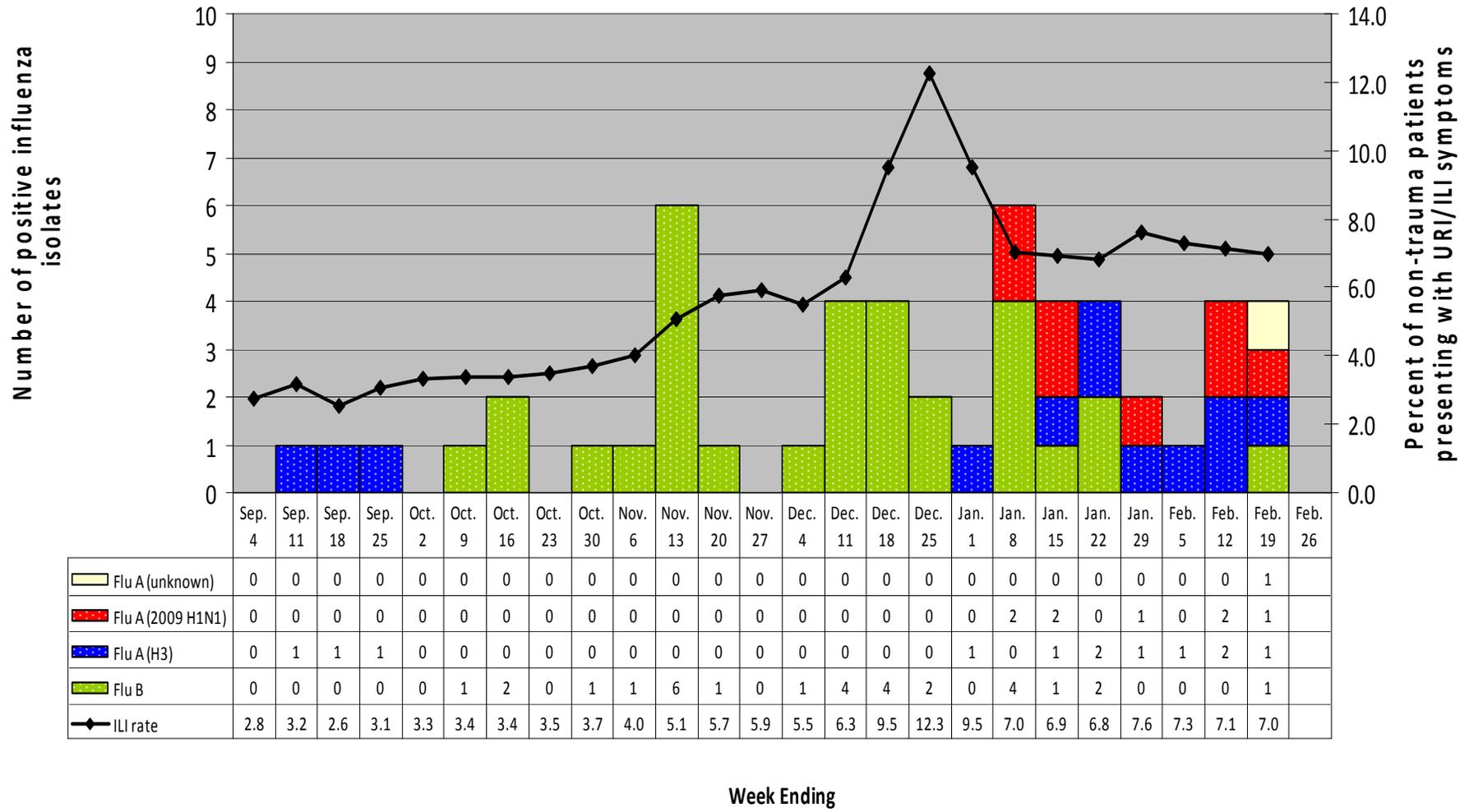


Figure 6

