This is thirteenth weekly Florida influenza surveillance report for the 2007-08 season. Influenza surveillance in Florida consists of six surveillance components: 1) Florida Sentinel Physician Influenza Surveillance Network (FSPISN)*; 2) Florida Pneumonia & Influenza Mortality Surveillance System; 3) State laboratory viral surveillance; 4) County influenza activity levels; 5) Notifiable Disease Reports: Influenza-associated deaths in children & post-influenza infection encephalitis: 6) Influenza or ILI outbreaks.

Each week an activity code for the state as a whole is reported to the Centers for Disease Control and Prevention (CDC). There are five possible categories: No Activity, Sporadic, Local, Regional, or Widespread. Sporadic activity has been reported for Florida for this reporting week (Week 1). There has not been an increase in influenza activity in state. Therefore, Florida meets the CDC sporadic activity definition. The CDC definition for sporadic activity is: Small numbers of laboratory confirmed influenza cases or a single laboratory confirmed influenza outbreak has been reported, but there is no increase in cases of ILI. The CDC report can be viewed at http://www.cdc.gov/flu/weekly/usmap.htm.

During week 1 the proportion of patient visits for influenza-like illness (ILI) as reported by the Florida Sentinel Physician Influenza Surveillance Network was 0.71 percent. This is below the state threshold for moderate activity of 1.75 percent. Three of the 9 specimens tested by Bureau of Laboratories were positive for influenza. No counties reported widespread activity and four counties reported localized activity. Seventeen counties reported sporadic activity and 31 counties reported no activity. Sixteen counties did not report. The graph below shows the progression of the 2006-07 & 2007-08 Florida influenza seasons as monitored by three** of six surveillance systems.

*The purposes of these surveillance systems are to determine when and where influenza activity is occurring, to identify circulating viruses, to detect changes in the circulating influenza viruses, to track patterns of influenza-associated morbidity and mortality and estimate the overall impact of influenza in the state of Florida. **1) FSPISN, 2) State Laboratory Viral Surveillance, and 3) County Activity Levels.
During week 1, 0.71% of patient visits to Florida sentinel providers were due to ILI. This percentage is below the statewide baseline of 1.75%. The percentage of visits ranged from 0.00% in the Northeast and Southwest region to 1.16% in the Northwest region. For the 2006-07 influenza season the statewide ILI activity percent was 2.04% for week 1.

During week 1, the total count of pneumonia and influenza (P&I) deaths reported was below the epidemic threshold. This indicates there were no deaths in excess of the expected count for week 1 and observed mortality does not indicate that Florida has surpassed the epidemic threshold for this week**.

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Pneumonia and Influenza Mortality for 23 Florida Counties, Counts Model

**Twenty-one of 23 counties are currently reporting P&I deaths. 100% participation is required for this graph to provide an accurate representation. We look forward to 100% participation in the near future.
Since September 30th, 2007, Florida Department of Health Laboratories have tested a total of 168 specimens for influenza viruses and 35 (21%) were positive. Among the 35 influenza viruses, 27 (77%) were influenza A viruses and 8 (25%) were influenza B viruses. Of the 27 influenza A viruses, 6 were A H3N2, 11 were H1N1, and 10 were A unsubtyped. Of the 7 influenza B viruses 6 were Shanghai. All of the influenza B viruses have not been subtyped. Laboratory information is preliminary and may change as additional results are received. Totals from previous weeks have been adjusted to reflect correct specimen numbers.
The table below shows the weighted ILI activity by region as reported by Florida sentinel physicians for the 2006-07 & 2007-08 seasons. The graphs below include ILI activity as reported by sentinel physicians and FDOH laboratory data.

<table>
<thead>
<tr>
<th>REGION</th>
<th>2007-08 ILI %</th>
<th>2006-07 ILI %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centraleast</td>
<td>1.12%</td>
<td>3.68%</td>
</tr>
<tr>
<td>Centralwest</td>
<td>0.87%</td>
<td>2.40%</td>
</tr>
<tr>
<td>Northcentral</td>
<td>0.67%</td>
<td>1.37%</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.00%</td>
<td>1.79%</td>
</tr>
<tr>
<td>Northwest</td>
<td>1.16%</td>
<td>0.05%</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.80%</td>
<td>1.46%</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.00%</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

The graph shows the number of visits for ILI, reported by sentinel providers, and the weighted ILI activity % for each region.
0 = No Activity:
Overall clinical activity remains low with no laboratory confirmed cases† in the county.

1 = Sporadic:
And/or
a. Isolated cases of laboratory confirmed influenza† in the county.
b. An ILI§ outbreak in a single setting‡ in the county. (No detection of decreased ILI§ activity by surveillance systems*)

2=Localized:
And/or
a. An increase of ILI§ activity detected by a single surveillance system* within the county.
   (An increase in ILI§ activity has not been detected by multiple ILI surveillance systems.)
b. Two or more outbreaks (ILI§ or lab confirmed†) detected in a single setting‡ in the county.

   AND

   c. Recent (within past three weeks) laboratory evidence† of influenza activity in the county.

3=Widespread:
And/or
a. An increase in ILI§ activity detected in ≥2 surveillance systems in the county.
b. Two or more outbreaks ((ILI§ or laboratory confirmed†) detected in multiple settings‡ in the county.

No Report: (No report was received from the county at the time of publication)
† Laboratory confirmed case = case confirmed by rapid diagnostic test, antigen detection, culture, or PCR.
§ ILI = Influenza-like illness, fever ≥100°F AND sore throat and/or cough in the absence of another known cause.
* ILI surveillance system activity can be assessed using a variety of surveillance systems including sentinel providers, school/workplace absenteeism, long-term care facility (LTCF) surveillance, correctional institution surveillance, hospital emergency department surveillance and laboratory surveillance.
‡ Settings include institutional settings (LTCFs, hospitals, prisons, schools, companies) & the community.

VI. REPORTS OF INFLUENZA OR INFLUENZA-LIKE ILLNESS (ILI) OUTBREAKS

On December 28, 2007 DeSoto CHD Epidemiology reported an outbreak of ILI in a local correctional facility. Five out of the initial 30 individuals with ILI were positive for influenza A/H1N1 via PCR testing at the State Laboratory—Tampa.

On October 16, 2007 Duval CHD Epidemiology reported a pediatric patient hospitalized by Acute Disseminated Encephalomyelitis (ADEM) caused by recent Influenza A infection. Nasopharyngeal specimen was positive for Influenza A by EIA.

On October 10, 2007 Palm Beach CHD Epidemiology reported ILI activity in two long-term care facilities. In addition, a local laboratory hospital reported four positive cases of influenza A by rapid antigen testing.

On September 27, 2007 Miami-Dade CHD Epidemiology reported two university students with ILI symptoms and confirmed influenza A by PCR testing at the State Laboratory—Jacksonville.

VII. NOTIFIABLE DISEASE REPORTS: INFLUENZA-ASSOCIATED DEATHS AMONG CHILDREN (<18 YEARS) & POST-INFLUENZA INFECTION ENCEPHALITIS

As of the week ending January 5, 2008, there was one influenza-associated deaths among those <18 years of age and/or post influenza infection encephalitis were reported in the state of Florida.

<table>
<thead>
<tr>
<th>Reportable Disease</th>
<th># of Cases 07-08 Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza-associated deaths among those &lt;18 years of age</td>
<td>1</td>
</tr>
<tr>
<td>Post-influenza infection encephalitis</td>
<td>0</td>
</tr>
</tbody>
</table>

Influenza-associated deaths among those < 18 years of age and/or post-influenza infection encephalitis are reportable; case report forms can be accessed at: [http://www.doh.state.fl.us/disease_ctrl/epi/topicscrforms.htm](http://www.doh.state.fl.us/disease_ctrl/epi/topicscrforms.htm).
Since the recent outbreak activity began at the end of December 2003, there have been a total of 348 confirmed human cases and 216 deaths. Cases and deaths occurred in the following nations: Azerbaijan 8 cases and 5 deaths; Cambodia 7 cases and 7 deaths; China 27 cases and 17 deaths; Djibouti 1 case 0 deaths; Egypt 43 cases and 19 deaths; Indonesia 116 cases and 94 deaths; Iraq 3 cases and 2 deaths; Lao People’s Democratic Republic 2 cases and 2 deaths; Myanmar 1 case and 0 deaths; Nigeria 1 case and 1 death; Thailand 25 cases and 17 deaths; Turkey 12 cases and 4 deaths; and, Vietnam 101 cases and 47 deaths.


For a complete analysis and summary of WHO confirmed human cases of H5N1 from 12/1/2003 to current, please visit: http://www.who.int/csr/disease/avian_influenza/guidelines/wer8126/en/index.html

During week 1 Egypt announced two new fatal cases of H5N1 infection in a 24-year-old female from the Da-kahlyah Governorate and one in a 36-year-old female from the Menofia Governorate. Both women had contact with sick and dead poultry prior to becoming ill. A previously confirmed case of H5N1 in a 50-year-old female from the Domiatt Governorate in Egypt turned fatal during this reporting week.

The current phase of alert as defined by the WHO global influenza preparedness plan is phase 3, which states that human infections with a new subtype are occurring, but no human-to-human spread, or at most rare instances of spread to a close contact. At the present time the WHO is not recommending restrictions on travel to areas affected by H5N1 avian influenza, but is suggesting that travelers to these areas avoid contact with live animal markets and poultry farms, and any free-ranging or caged poultry. Evidence suggests that the primary route of infection at this time is associated with direct contact with infected poultry, or surfaces and objects contaminated by their droppings.
During week 1, no counties reported widespread activity, four counties reported localized activity (Alachua, Dade, Hillsborough, Nassau). Seventeen counties (Brevard, Collier, Hardee, Hernando, Holmes, Lake, Lee, Manatee, Okaloosa, Orange, Palm Beach, Pasco, Pinellas, Santa Rosa, Sarasota, Seminole, Volusia) reported sporadic activity. Thirty-one counties reported no activity. Sixteen counties did not report.

Weekly County Influenza Activity

(Week ending January 5, 2008 - Week 1)

County influenza activity levels are reported by county health department epidemiologists.