#### Page 1

# FLORIDA INFLUENZA SURVEILLANCE

# Week 11: March 9th 2008—March 15th 2008



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# IN THIS ISSUE:

- I. Summary
- II. FSPISN Influenza-like Illness Statewide Graph
- III. Florida Pneumonia and Influenza Mortality Surveillance
- IV. FDOH Laboratory Surveillance
- V. Laboratory and Influenza-like Illness Surveillance by Region
- VI. County Influenza Activity Map
- VII. Reports of Influenza or Influenza-like Illness (ILI) Outbreaks
- VIII. Notifiable Disease Reports: Influenza-assoc. deaths in children & post-influenza infection encephalitis
- IX. Summary of Worldwide A/H5N1 Influenza Activity

## I. SUMMARY

This is twenty-fourth 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. Regional activity has been reported for Florida for this reporting week (Week 11). There has been an increase in influenza activity in the Centraleast and Northcentral regions of Florida as well as recent lab confirmed cases. Because of this increase, Florida meets the CDC regional activity definition. The CDC definition for regional activity is: Outbreaks of influenza or increases in influenza-like illness (ILI) cases and recent laboratory confirmed influenza in at least 2 but less than half the regions of the state. The CDC report can be viewed at http://www.cdc.gov/flu/weekly/usmap.htm.

During week 11 the proportion of patient visits for influenza-like illness (ILI) as reported by the Florida Sentinel Physician Influenza Surveillance Network was 2.82 percent. This is above the state threshold for moderate activity of 1.75 percent. Twenty-three of the 32 specimens tested by Bureau of Laboratories were positive for influenza. Ten counties reported widespread activity and fifteen counties reported localized activity. Twenty counties reported sporadic activity and 3 counties reported no activity. Twenty 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 influenzaassociated morbidity and mortality and estimate the overall impact of influenza in the state of Florida.

Find more information at: http://www.doh.state.fl.us/disease\_ctrl/epi/htopics/flu/index.htm

### **II. FSPISN INFLUENZA-LIKE ILLNESS STATEWIDE GRAPH**

During week 11, 2.82%\* of patient visits to Florida sentinel providers were due to ILI. This percentage is above the statewide baseline of 1.75%\*\*. The percentage of visits ranged from 0.34% in the Southwest region to 5.70% in the Centraleast region. For the 2006-07 influenza season the statewide ILI activity percent 1.93% for week 11.



\*FSPISN reporting is incomplete for this week (36%). Numbers may change as more reports are received.

\*\*The 2006—07 threshold for moderate activity is calculated from the previous 3 years of FSPISN data. Only weeks with 10% or greater of laboratory specimens testing positive are included in the calculation. The threshold is only specific to 2007—08 data.

#### III. Florida Pneumonia and Influenza Mortality Surveillance

Florida is currently in the process of updating P& I mortality surveillance. Please refer to the national data compiled by the CDC below.

**Pneumonia and Influenza (P&I) Mortality Surveillance:** During week 11, 9.1% of all deaths reported through the 122 Cities Mortality Reporting System were reported as due to P&I. This percentage is above the epidemic threshold of 7.1% for week 11. Including week 11, P&I mortality has been above epidemic threshold for ten consecutive weeks.



## **IV. FDOH LABORATORY SURVEILLANCE**

Since September 30th, 2007, Florida Department of Health Laboratories have tested a total of 655 specimens for influenza viruses and 373 (57%) were positive. Among the 373 influenza viruses, 325 (87%) were influenza A viruses and 48 (13%) were influenza B viruses. Of the 325 influenza A viruses, 68 were A H3N2, 106 were H1N1, and 151 were A unsubtyped. Of the 48 influenza B viruses 42 were Shanghai, 2 were Malaysia and 4 were unknown. Laboratory information is preliminary and may change as additional results are received. To-tals from previous weeks have been adjusted to reflect correct specimen numbers.







	2007-2008 Influenza Laboratory Isolates by Week and County																																		
Week	Alachua	Bay	Bradford	Brev ard	Broward	Clay	Charlotte	Citrus	Miami-Dade	DeSoto	Dixie	Duval	Escambia	Hamilton	Hardee	Hillsborough	Holmes	Indian River	Jackson	Leon	Levy	Marion	Nassau	Okechobee	Orange	Palm Beach	Pasco	Pinellas	Polk	Santa Rosa	Sarasota	Seminole	St. Johns	Washington	Volusia
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# IV. LABORATORY AND INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE BY REGION





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.

Week 11: FSPISN Weighted ILI Activity, by Region 2006-07 & 2007-08 Seasons										
REGION	2007-08 ILI %	2006-07 ILI %								
Centraleast	5.70%	0.68%								
Centralwest	0.84%	1.02%								
Northcentral	2.42%	0.90%								
Northeast	3.96%	1.77%								
Northwest	2.90%	1.75%								
Southeast	2.43%	2.00%								
Southwest	0.34%	0.69%								







Influenza A specimens FDOH Laboratories
Influenza B specimens FDOH Laboratories
% of visits for ILI, reported by sentinel providers









# V. COUNTY INFLUENZA ACTIVITY MAP

During week 11, ten counties reported widespread activity (Baker, Clay, Collier, Hardee, Lee, Palm Beach, Putnam, Sarasota, Seminole, Volusia). Fifteen counties reported localized activity (Alachua, Dixie, Duval, Franklin, Hamilton, Hillsborough, Levy, Manatee, Martin, Monroe, Okaloosa, Orange, Pasco, Polk, St. Johns). Twenty counties (Bay, Brevard, Charlotte, Citrus, Flagler, Gilchrist, Gulf, Holmes, Indian River, Jackson, Lafayette, Lake, Leon, Marion, Osceola, Pinellas, Santa Rosa, Suwannee, Wakulla, Walton) reported sporadic activity. Three counties reported no activity. Twenty counties did not report.



# COUNTY INFLUENZA ACTIVITY LEVEL DEFINITIONS



As of the week ending March 15, 2008, there were no influenza-associated deaths among those <18 years or age and/ or post influenza infection encephalitis were reported in the state of Florida.

Reportable Disease	# of Cases 07-08 Influenza Season
Influenza-associated deaths among those <18 years of age	1
Post-influenza infection encephalitis	0

Influenza-associated deaths among those < 18 years of age and/or post-influenza infection encephalitis are reportable; case report forms can be accessed at: <u>http://www.doh.state.fl.us/disease\_ctrl/epi/topicscrforms.htm</u>.

## VIII. SUMMARY OF WORLDWIDE A/H5N1 INFLUENZA ACTIVITY

Page 7

Since the recent outbreak activity began at the end of December 2003, there have been a total of 372 confirmed human cases and 235 deaths. Cases and deaths occurred in the following nations: Azerbaijan 8 cases and 5 deaths; Cambodia 7 cases and 7 deaths; China 30 cases and 20 deaths; Djibouti 1 case 0 deaths; Egypt 47 cases and 20 deaths; Indonesia 129 cases and 105 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 105 cases and 51 deaths.

Changes in the WHO case definition for human infection with avian influenza H5N1 can be found here: <u>http://www.who.int/csr/disease/avian\_influenza/guidelines/case\_definition2006\_08\_29/en/index.html</u> For a complete analysis and summary of WHO confirmed human cases of H5N1 from 12/1/2003 to current, please visit: <u>http://www.who.int/csr/disease/avian\_influenza/guidelines/wer8126/en/index.html</u>

During week 11, the Ministry of Health in Viet Nam announced a new fatal human case of avian influenza A (H5N1). The case was a 11-year-old male from the Thanh Liem district, Ha Nam province with symptom onset March 4, hospitalization on March 9, and died on March 14. A history of contact with sick and/or dead poultry was noted prior to illness.

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.

