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# FLORIDA INFLUENZA SURVEILLANCE

## Week 44: October 26th 2008—November 1st 2008



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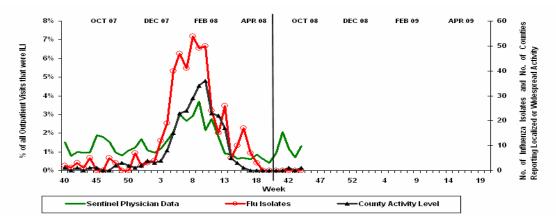
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#### I. SUMMARY

This is the fifth weekly Florida influenza surveillance report for the 2008-09 season. Influenza surveillance in Florida consists of seven 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 & postinfluenza infection encephalitis; 6) Influenza or ILI outbreaks; 7) Syndromic surveillance.

During week 44 (10/25/08-11/1/08), the proportion of patient visits for influenza-like illness (ILI) as reported by the Florida Sentinel Physician Influenza Surveillance Network was 1.32 percent. This is below the state threshold for moderate activity of 2.98 percent. None of the eleven ILI specimens tested by Bureau of Laboratories were positive for influenza. No counties reported widespread activity and one county reported localized activity. Thirteen counties reported sporadic activity and 40 counties reported no activity. Thirteen counties did not report. The graph below shows the progression of the 2007-08 & 2008-09 Florida influenza seasons as monitored by three\*\* of seven surveillance systems.

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. No activity has been reported in Florida for this reporting week (week 44). There have been no confirmed influenza isolates since week 40, the official start of influenza season. Florida meets the CDC no activity definition. The CDC definition for no activity is: No laboratory-confirmed cases of influenza and no reported increase in the number of cases of ILI. The CDC report can be viewed at http://www.cdc.gov/flu/weekly/usmap.htm.



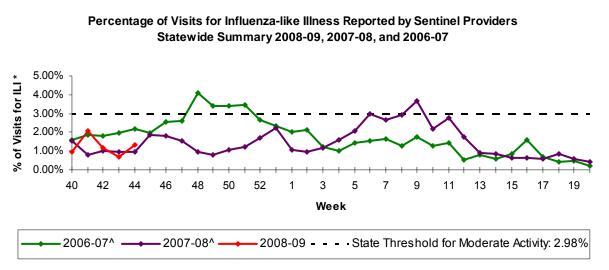
\*The purposes of these surveillance systems are to determine when and where influenza activity is occurring, to identify circulating viruses, to detect changes in the circulating influenza viruses, to track patterns of influenza-associated morbidity and mortality and estimate the overall impact of influenza in the state of Florida.

\*\*1) FSPISN, 2) State Laboratory Viral Surveillance, and 3) County Activity Levels.

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

During week 44, 1.32%\* of patient visits to Florida sentinel providers were due to ILI. This percentage is below the statewide threshold for moderate activity of 2.98%\*\*. The percentage of visits ranged from 0.10% in the Northeast to 2.24% in the Southeast region.



\*FSPISN reporting is incomplete for this week (54% of providers reported). Numbers may change as more reports are received. Data displayed is weighted to the state population.

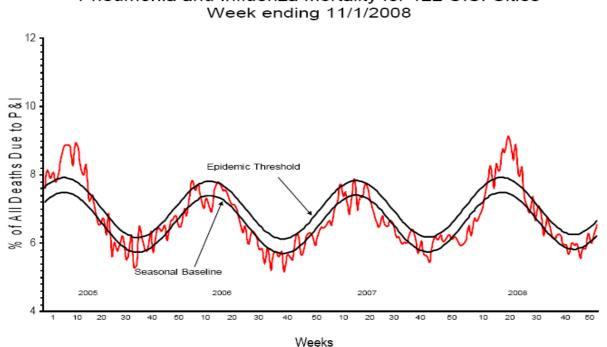
\*\*The 2008—09 threshold for moderate activity is calculated from FSPISN data. The threshold for moderate activity is the mean percentage of patient visits for ILI during influenza weeks for the previous three seasons plus two standard deviations. Only weeks with 10% or greater of laboratory specimens testing positive are included in the calculation. Due to wide variability in regional level data, it is not appropriate to apply the state baseline to regional data.

^ There was no week 53 during the 2006-07 and 2007-08 seasons; the week 53 data point for those seasons is an average of weeks 52 and 1.

## III. FLORIDA PNEUMONIA AND INFLUENZA MORTALITY SURVEILLANCE

Please refer to the most recent national data compiled by the CDC below. Three major metropolitan locations participate in the national 122 Cities Mortality Reporting System. Florida is currently in the process of updating the Florida Pneumonia and Influenza Mortality Surveillance System (FPIMSS). Twenty-three counties participate in the FPIMSS. During week 44, five counties did not report. Data from all participating counties are required to accurately display the data in this report.

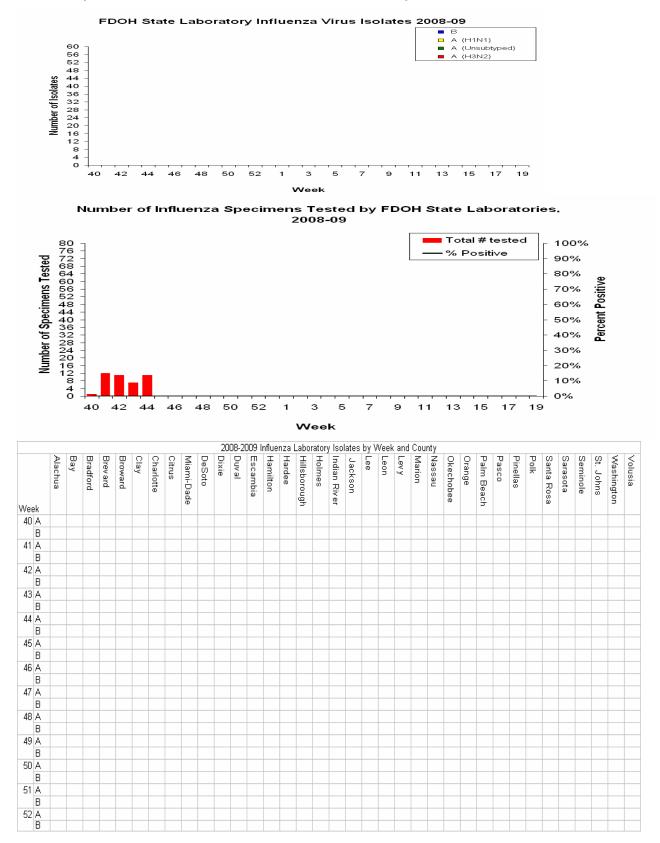
Pneumonia and Influenza (P&I) Mortality Surveillance: During week 44, 6.6% of all deaths reported through the 122-Cities Mortality Reporting System were due to P&I. This percentage is below the epidemic threshold of 6.7% for week 44.



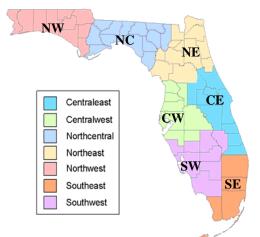
Pneumonia and Influenza Mortality for 122 U.S. Cities

### IV. FDOH LABORATORY SURVEILLANCE

During week 44, Florida Department of Health Bureau of Laboratories tested a total of 11 specimens for influenza viruses. None were positive. Laboratory information is preliminary and may change as additional results are received. Totals from previous weeks will be adjusted to reflect correct specimen numbers. During August and September prior to the "official" start of the influenza surveillance season, the Bureau of Laboratories tested three specimens that were positive for influenza. Two were influenza A H1N1 one each from Nassau and Orange counties. The other was PCR positive for Influenza A H3 in Hillsborough county. During the official influenza season, a total of 42 specimens have been tested for influenza with zero positives.

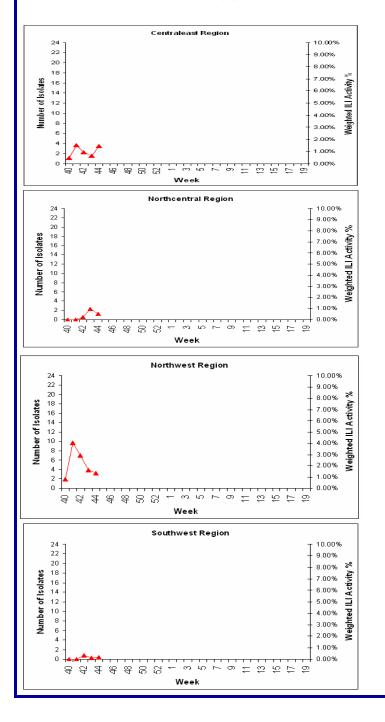


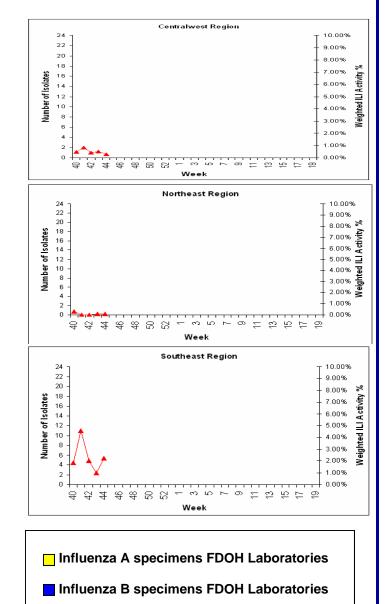
# V. LABORATORY AND INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE BY REGION



The table below shows the weighted ILI activity by region as reported by Florida sentinel physicians for the 2007-08 & 2008-09 seasons. The graphs below include ILI activity as reported by sentinel physicians and FDOH laboratory data.

Week 44: FSPISN Weighted ILI Activity, by Region 2007-08 & 2008-09 Seasons		
REGION	2008-09 ILI %	2007-08 ILI %
Centraleast	1.44%	0.88%
Centralwest	0.29%	0.48%
Northcentral	0.53%	1.34%
Northeast	0.10%	0.17%
Northwest	1.35%	0.00%
Southeast	2.24%	1.79%
Southwest	0.19%	3.75%

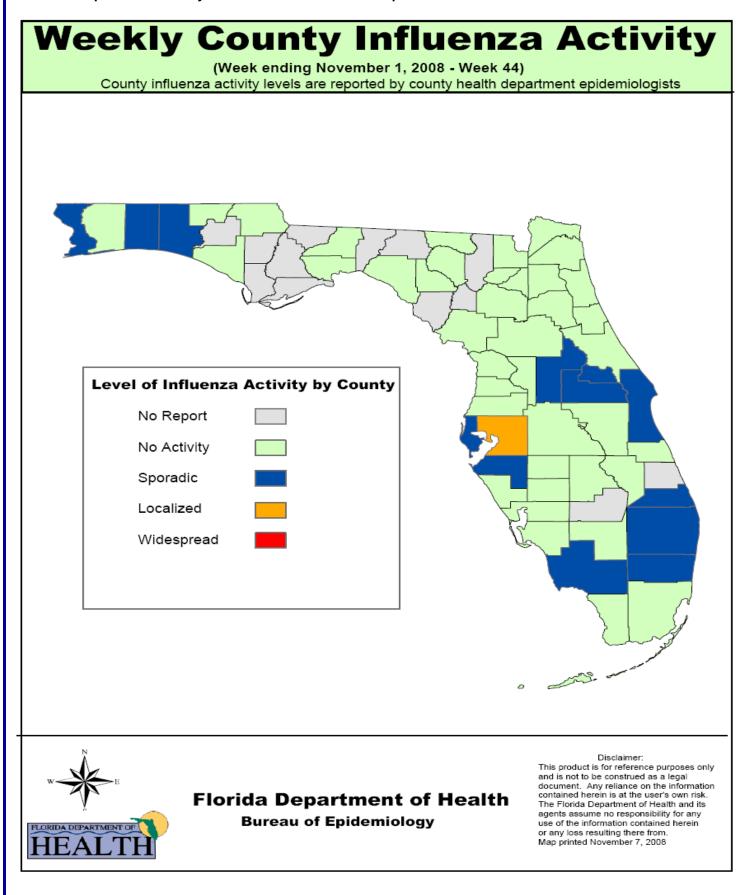




% of visits for ILI, reported by sentinel providers

# VI. COUNTY INFLUENZA ACTIVITY MAP

During week 44, no counties reported widespread activity and one county (Hillsborough) reported localized activity. Thirteeen counties (Brevard, Broward, Collier, Escambia, Lake, Manatee, Martin, Okaloosa, Orange, Palm Beach, Pinellas, Seminole, Walton) reported sporadic activity. Forty counties reported no activity. Thirteen counties did not report.



# COUNTY INFLUENZA ACTIVITY LEVEL DEFINITIONS

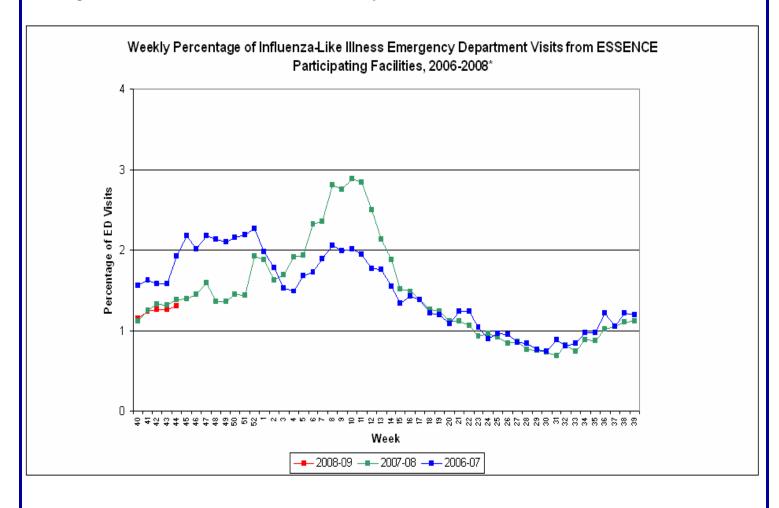
0 = No Activity:			
	Overall clinical activity remains low with no laboratory confirmed cases <sup>†</sup> in the county.		
<b>1 = Sporadic:</b> And/or $\int_{-\infty}^{\infty}$ a located cases of laboratory confirmed influenza <sup>†</sup> in the			
And/ora. Isolated cases of laboratory confirmed influenza <sup>†</sup> in the b. An ILI <sup>§</sup> outbreak in a single setting <sup>‡</sup> in the county. (No	b detection of decreased ILI <sup>§</sup>		
activity by surveillance systems*)			
2 = Localized:			
And/or $\left[ a. ILI^{\$} activity detected by a single surveillance system* v$			
<ul> <li>ILI<sup>§</sup> activity has not been detected by <i>multiple</i> ILI surve</li> <li>b. Two or more outbreaks (ILI<sup>§</sup> or lab confirmed<sup>†</sup>) detected</li> </ul>	ellance systems.)		
county.			
AND			
c. Recent (within past three weeks) laboratory evidence	<sup>†</sup> of influenza activity in the county.		
3 = Widespread:			
And/or ∫ a. An increase in ILI <sup>§</sup> activity detected in ≥2 surveillance systems in the county. b. Two or more outbreaks ((ILI <sup>§</sup> or laboratory confirmed <sup>†</sup> ) detected in <i>multiple</i> settings <sup>‡</sup>			
in the county.	) detected in <i>multiple</i> settings		
<b>No Report:</b> (No report was received from the county at the time of put	blication)		
<sup>†</sup> Laboratory confirmed case = case confirmed by rapid diagnostic test	t, antigen detection, culture, or PCR.		
<sup>§</sup> ILI = Influenza-like illness, fever <sup>3</sup> 100°F AND sore throat and/or coug			
*ILI surveillance system activity can be assessed using a variety of su			
school/workplace absenteeism, long-term care facility (LTCF) surveilla emergency department surveillance and laboratory surveillance.	ance, correctional institution surveillance, hospital		
<sup>‡</sup> Settings include institutional settings (LTCFs, hospitals, prisons, scho	ools companies) & the community		
	solo, companies) à the community.		
VII. REPORTS OF INFLUENZA OR INFLUENZA-LIKE ILI	LNESS (ILI) OUTBREAKS		
During week 44, there were no reports of influenza or influenza-like illness outbreaks in the state.			
County Health Department epidemiologists should report Influenza and ILI outbreaks via EpiCom at: <u>https://</u>			
fdens.com/vabtrs/GateStart.aspx within the Influenza Forum.			
<b>VIII. NOTIFIABLE DISEASE REPORTS: INFLUENZA-AS</b>	SOCIATED DEATHS AMONG CHILDREN		
(<18 YEARS) & POST-INFLUENZA INFECTION ENCEPH	HALITIS		
As of the week ending November 1, 2008, there were no influe	nza-associated deaths among those <18 years of		
age and/ or post influenza infection encephalitis reported in th	ne state of Florida.		
Reportable Disease	# of Cases 08-09 Influenza Season		
Influenza-associated deaths among those <18 years of age	0		
	l Š		
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>.

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## IX. SYNDROMIC SURVEILLANCE SUMMARY

Syndromic surveillance ILI data as monitored through the ESSENCE system is a newly added component of the overall state influenza surveillance program. Florida uses the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) for syndromic surveillance, which currently collects data from 86\* hospitals. These data are processed into 11 different syndrome categories based on the patient's chief complaint. One of the categories is influenza-like illness (ILI), which is composed of chief complaints that include the words "influenza" or "flu", or either fever and cough or sore throat. The data are collected on a daily basis from participating hospital emergency departments (ED) across the state. Displayed below are the percentage of ILI visits to local EDs from 2006 to 2008 by week.



\* The total number of facilities participating in ESSENCE has increased steadily from 2006 to 2008. In 2007 ES-SENCE was implemented as the state syndromic surveillance system.

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

#### Update 10/10/2008

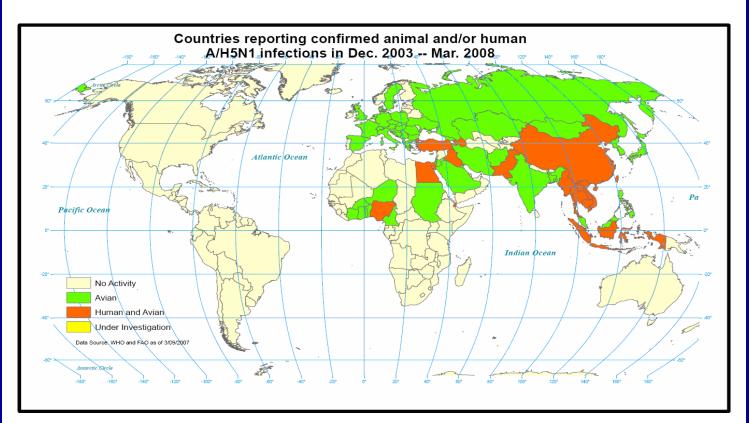
Since the outbreak activity began at the end of December 2003, there have been a total of 387 confirmed human cases and 245 deaths. Cases and deaths have occurred in the following nations: Azerbaijan 8 cases and 5 deaths; Bangladesh 1 case 0 deaths; Cambodia 7 cases and 7 deaths; China 30 cases and 20 deaths; Djibouti 1 case 0 deaths; Egypt 50 cases and 22 deaths; Indonesia 137 cases and 112 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; Pakistan 3 cases and 1 death. Thailand 25 cases and 17 deaths; Turkey 12 cases and 4 deaths; and, Vietnam 106 cases and 52 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/ai\_timeline/en/index.html

During week 44 there were no new updates of influenza A H5N1 infections.

Changes in the WHO case definition for human infection with avian influenza H5N1 can be found here: <a href="http://www.who.int/csr/disease/avian\_influenza/guidelines/case\_definition2006\_08\_29/en/index.html">http://www.who.int/csr/disease/avian\_influenza/guidelines/case\_definition2006\_08\_29/en/index.html</a>

During week 43 the World Health Organization sought comments on their revised pandemic influenza preparedness plan draft from interested experts. This plan will replace the current 2005 version and simplify the six pandemic phases. For more information visit: <u>http://www.cidrap.umn.edu/cidrap/content/influenza/biz-plan/news/</u> <u>oct2408who.html.</u>

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.



Human cases of influenza due to infection from novel or pandemic strains are reportable in Florida. Reports should be made to the Department 24/7 upon initial suspicion.