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FLORIDA INFLUENZA SURVEILLANCE

Week 1: January 4th 2009—January 10th 2009



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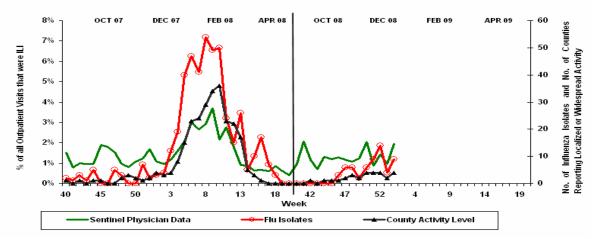
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I. SUMMARY

This is the fifteenth 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 & post-influenza infection encephalitis; 6) Influenza or ILI outbreaks; 7) Syndromic surveillance.

During week 1 (01/04/09-01/10/09), the proportion of patient visits for influenza-like illness (ILI) as reported by the Florida Sentinel Physician Influenza Surveillance Network was 1.94 percent. This is below the state threshold for moderate activity of 2.98 percent. Nine of the fifteen ILI specimens tested by Bureau of Laboratories were positive for influenza. No counties reported widespread activity and four counties reported localized activity. Twenty-one counties reported sporadic activity and 22 counties reported no activity. Twenty 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. Local activity has been reported in Florida for this reporting week (week 1). Florida meets the CDC local activity definition. The CDC definition for local activity is: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state. The CDC report can be viewed at http://www.cdc.gov/flu/weekly/usmap.htm.

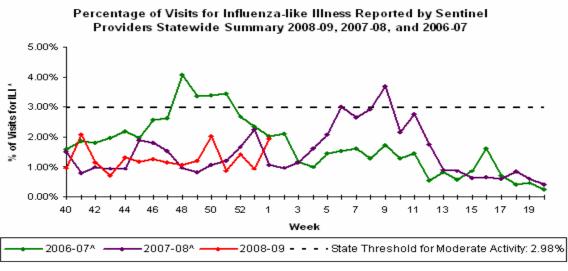


*The purposes of these surveillance systems are to determine when and where influenza activity is occurring, to identify circulating viruses, to detect changes in the circulating influenza viruses, to track patterns of influenza-associated morbidity and mortality and estimate the overall impact of influenza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

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

II. FSPISN INFLUENZA-LIKE ILLNESS STATEWIDE GRAPH

During week 1, 1.94%* 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 0.38% in the Centralwest to 6.54% in the Northwest region.



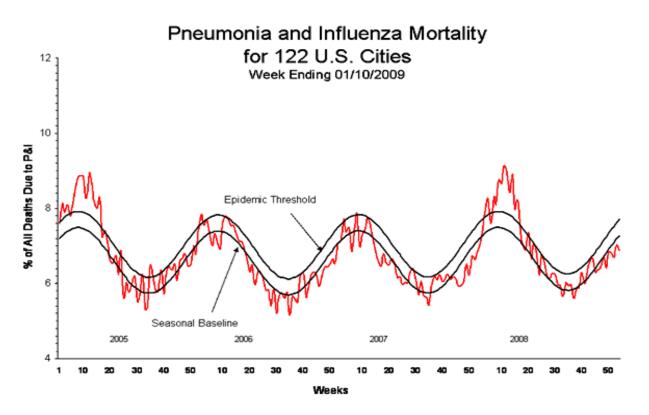
*FSPISN reporting is incomplete for this week (49% of providers reported). Numbers may change as more reports are received. Data displayed is weighted to the state population.

**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 1, seven counties did not report. Data from all participating

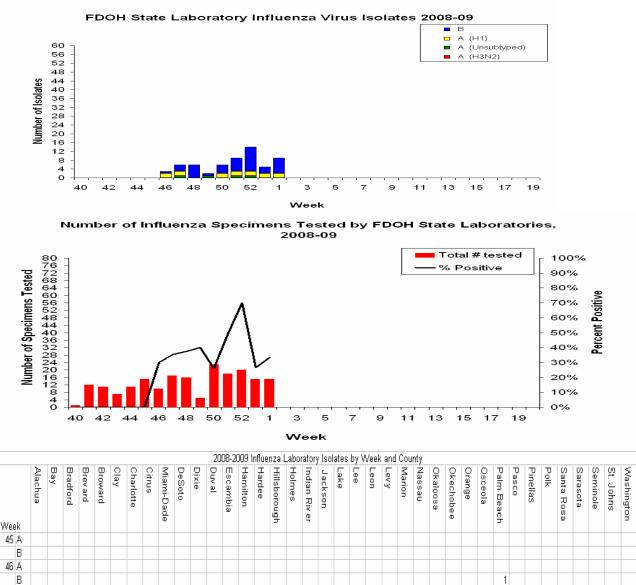


Volusia

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IV. FDOH LABORATORY SURVEILLANCE

During week 1, Florida Department of Health Bureau of Laboratories tested a total of 15 specimens for influenza viruses. Nine (60%) of 15 were positive for influenza. Two were influenza AH1, two were influenza B Malaysia, one was influenza B Florida and four were Influenza B unknown. The Bureau of Laboratories have tested a total of 196 specimens so far this season. Laboratory information is preliminary and may change as additional results are received. Totals from previous weeks will be adjusted to reflect correct specimen numbers.

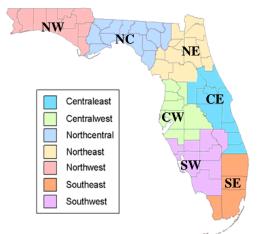


47 A				3																
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*Please note that the graph displays positive influenza isolates in each county reported during week 1. Totals will be adjusted to reflect actual week of positive specimen.

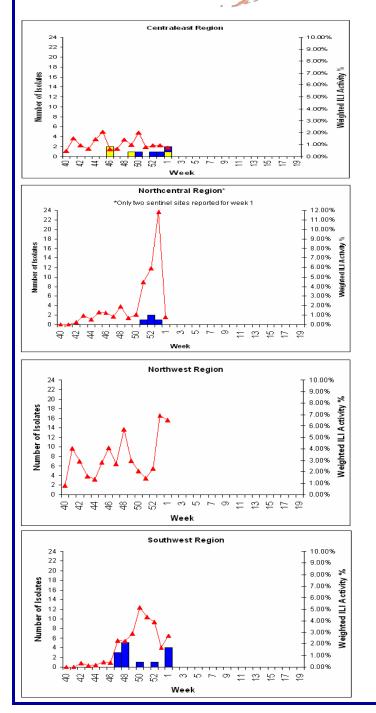
V. LABORATORY AND INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE BY REGION

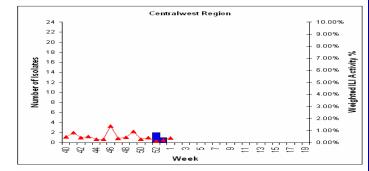


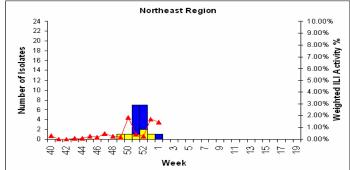


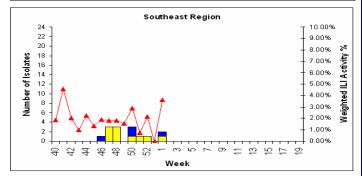
The table below shows the weighted ILI activity by region as reported by Florida sentinel physicians for the 2007-08 & 2008-09 seasons. The graphs below include ILI activity as reported by sentinel physicians and FDOH laboratory data.

	PISN Weighted ILI Activity 2007-08 & 2008-09 Seasor	
REGION	2008-09 ILI %	2007-08 ILI %
Centraleast	0.75%	1.12%
Centralwest	0.38%	0.87%
Northcentral	0.81%	0.67%
Northeast	1.46%	0.00%
Northwest	6.54%	1.16%
Southeast	3.63%	0.80%
Southwest	2.70%	0.00%





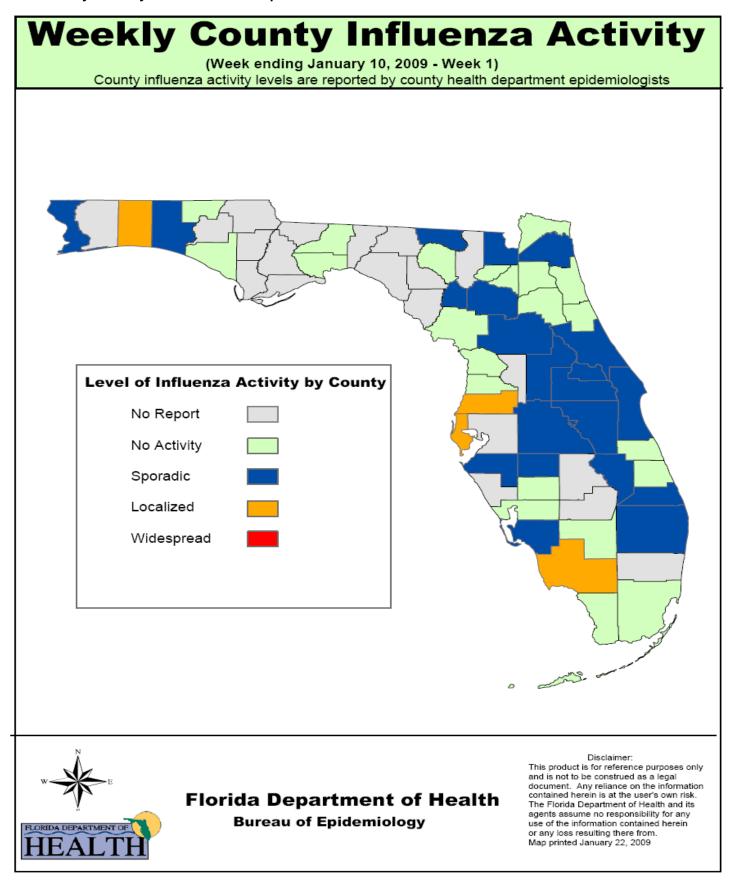




Influenza A specimens FDOH Laboratories
 Influenza B specimens FDOH Laboratories
 % of visits for ILI, reported by sentinel providers

VI. COUNTY INFLUENZA ACTIVITY MAP

During week 1, no counties reported widespread activity, four counties reported localized activity (Collier, Okaloosa, Pasco, Pinellas). Twenty counties (Alachua, Baker, Brevard, Duval, Escambia, Gilchrist, Hamilton, Hardee, Lake, Lee, Manatee, Marion, Martin, Okeechobee, Orange, Osceola, Palm Beach, Polk, Seminole, Volusia, Walton) reported sporadic activity. Twenty-two counties reported no activity. Twenty counties did not report.



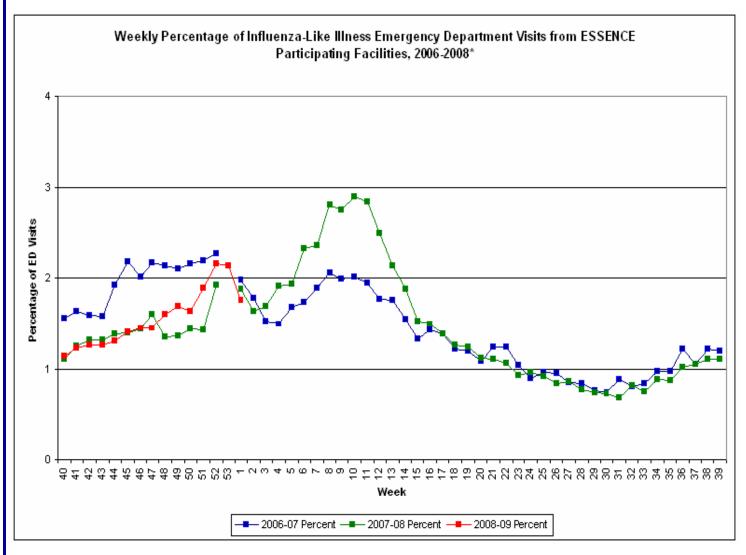
COUNTY INFLUENZA ACTIVITY LEVEL DEFINITIONS

Overa 1 = Sp <i>And</i> / 2 = Lo	o Activity: all clinical activity remains low with no laboratory confirmed cases boradic: //ora. Isolated cases of laboratory confirmed influenza [†] in the b. An ILI [§] outbreak in a single setting [‡] in the county. (No c activity by surveillance systems*) bocalized: //ora. ILI [§] activity detected by a <i>single</i> surveillance system* wi ILI [§] activity has not been detected by <i>multiple</i> ILI surveil	county. detection of decreased ILI [§] ithin the county.	
	 ILI^S activity has not been detected by <i>multiple</i> ILI surveil b. Two or more outbreaks (ILI^S or lab confirmed[†]) detected county. 	l in a <i>single</i> setting [‡] in the	
	County.		
	c. Recent (within past three weeks) laboratory evidence [†]	of influenza activity in the county.	
	idespread: /or ∫ a. An increase in ILI [§] activity detected in ≥2 surveillance sy b. Two or more outbreaks ((ILI [§] or laboratory confirmed [†]) o	ystems in the county.	
	in the county.		
[†] Labo [§] ILI = I *ILI su school	eport: (No report was received from the county at the time of public pratory confirmed case = case confirmed by rapid diagnostic test, Influenza-like illness, fever ³ 100°F AND sore throat and/or cough prveillance system activity can be assessed using a variety of surv I/workplace absenteeism, long-term care facility (LTCF) surveillance	antigen detection, culture, or PCR. <i>in the absence</i> of another known cause. veillance systems including sentinel providers	, ital
	ency department surveillance and laboratory surveillance. Igs include institutional settings (LTCFs, hospitals, prisons, schoo	le companies) & the community	
Settin		is, companies) & the community.	
VII. R	EPORTS OF INFLUENZA OR INFLUENZA-LIKE ILL	NESS (ILI) OUTBREAKS	
During	g week 1, there were no reports of influenza or influenza-like illnes	ss outbreaks in the state.	
	ty Health Department epidemiologists should report Influenza . <u>com/vabtrs/GateStart.aspx</u> within the Influenza Forum.		
fdens. VIII. N	Com/vabtrs/GateStart.aspx within the Influenza Forum.	a and ILI outbreaks via EpiCom at: <u>https://</u> OCIATED DEATHS AMONG CHILD	
fdens. VIII. N	.com/vabtrs/GateStart.aspx within the Influenza Forum.	a and ILI outbreaks via EpiCom at: <u>https://</u> OCIATED DEATHS AMONG CHILD	
<u>fdens.</u> VIII. N (<18 \ As	Com/vabtrs/GateStart.aspx within the Influenza Forum.	a and ILI outbreaks via EpiCom at: <u>https://</u> OCIATED DEATHS AMONG CHILD ALITIS a-associated deaths among those <18 yea	REN
<u>fdens.</u> VIII. N (<18 \ As	NOTIFIABLE DISEASE REPORTS: INFLUENZA-ASS YEARS) & POST-INFLUENZA INFECTION ENCEPH of the week ending January 10, 2009, there were no influenza e and/ or post influenza infection encephalitis reported in the	a and ILI outbreaks via EpiCom at: <u>https://</u> OCIATED DEATHS AMONG CHILD ALITIS a-associated deaths among those <18 yea	REN
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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>.

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. Please note that numbers may change as facility data is updated.

X. SUMMARY OF WORLDWIDE A/H5N1 INFLUENZA ACTIVITY

Update 01/07/09

Since the outbreak activity began at the end of December 2003, there have been a total of 393 confirmed human cases and 248 deaths. Cases and deaths have occurred in the following nations: Azerbaijan 8 cases and 5 deaths; Bangladesh 1 case 0 deaths; Cambodia 8 cases and 7 deaths; China 31 cases and 21 deaths; Djibouti 1 case 0 deaths; Egypt 51 cases and 23 deaths; Indonesia 139 cases and 113 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 107 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

Changes in the WHO case definition for human infection with avian influenza H5N1 can be found here: http://www.who.int/csr/disease/avian_influenza/guidelines/case_definition2006_08_29/en/index.html

During week 1, the Ministry of Health in China reported a confirmed case of human infection with H5N1 avian influenza virus. The case was a 19-year old female from Chaoyang District, Beijing. She developed symptoms on December 24th, 2008, was hospitalized and died on January 5th, 2009. Close contact with poulty prior to the illness was noted. All contacts of the case have been placed under observation.

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.