Florida Influenza Surveillance

Week Ending December 24, 2005 (Week 51)

Aimee Pragle, MS; Florida Epidemic Intelligence Service Fellow

Brittni Jones, Influenza Surveillance Coordinator

D'Juan Harris, GIS Specialist

Aaron Kite-Powell, MS; Florida Epidemic Intelligence Service Fellow



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Summary

This is the twelfth weekly Florida influenza surveillance report for the 2005-06 season. Influenza surveillance in Florida consists of six surveillance components: Florida Sentinel Physician Influenza Surveillance Network (FSPISN), state laboratory-based viral surveillance, county influenza activity levels as determined and reported by county health department epidemiologists based on county level influenza and influenza-like illness (ILI) surveillance, reporting of influenza-associated deaths among those <18 years of age, post-influenza infection encephalitis reporting, and reports of influenza or ILI outbreaks in the community or institutional settings. Influenza is not a reportable disease in Florida and therefore information regarding the exact number of influenza cases within the state is not available.

These surveillance systems allow the Florida Department of Health, in collaboration with the Centers for Disease Control and Prevention (CDC), to determine when and where influenza activity is occurring, identify circulating viruses, detect changes in the circulating influenza viruses, track patterns of influenza-associated morbidity and mortality and estimate the overall impact of influenza in the state of Florida. Almost all of the reporting by the counties, laboratories and healthcare providers for the various surveillance programs that track influenza-associated morbidity and mortality is voluntary.

During week 51, Influenza-like illness (ILI) activity as reported by FSPISN increased in five of the seven regions (Centraleast, Centralwest, Northcentral, Southeast, and Southwest), with the Centraleast, Northcentral, and Southeast regions being above the state baseline of 3.58%. County level influenza reporting recorded as of December 28, 2005: Miami-Dade County reported localized activity; nine county health departments (Alachua, Brevard, Collier, Hernando, Martin, Palm Beach, Pinellas, Sarasota, and Volusia) reported sporadic ILI activity and 21 reported no activity. Thirty-six counties did not report this week.

FSPSN Influenza and Influenza-like Illness (ILI) Surveillance Summary:

Table 1 shows the weighted ILI activity by region as reported by Florida Sentinel Physician Influenza Surveillance Network (FSPISN) providers. The overall weighted percent ILI activity for the state for the week ending December 24, 2005 was 3.50%, compared to 2.11% for the previous week. This is based on 32% of sentinel sites reporting. The highest weighted % ILI activity reported was in the Centraleast region (9.31%¹), while the Northwest region reported the lowest at 0.00% ILI cases from FSPISN.

FSPISN ^{∗§} Weighted ILI Activity, by Region, Week ending December 24, 2005	
REGION	REPORTED ILI%
Centraleast	9.31% [¶]
Centralwest	1.14%
Northcentral	4.08%
Northeast	1.43%
Northwest	0.00%
Southeast	3.67%
Southwest	1.00%

*The ILI activity levels are based on information reported by the Florida Sentinel Physician Influenza Network.

§ **FSPISN** Reporting is incomplete for this week (32%). Numbers may change dramatically as more reports are received.

[¶] Reporting for the Centraleast region is incomplete; 8 out of 41 (20%) Centraleast FSPISN facilities enrolled reported ILI activity.

FSPISN Influenza-like Illness Graphs By Region

Forida Threshold: 5.76%, calculated using the previous 3 years of data as reported by FSPISN. (A line exceeding the threshold indicates high ILI activity.)





Influenza Surveillance Regions





County influenza activity level definitions. (County activity levels should be reported via EpiCom.)

0 = No Activity:

Overall clinical activity remains low with no laboratory confirmed cases[†] in the county. 1 = Sporadic:

a. Isolated cases of laboratory confirmed influenza[†] in the county. And/or

b. An ILI[§] outbreak in a single setting[‡] in the county.

(No detection of increased 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).
- Two or more outbreaks (ILI[§] or lab confirmed[†]) detected in a single setting[‡] in the county.

AND

c. Recent (within the 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 countv.

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.
- * Setting includes institutional settings (LTCFs, hospitals, prisons, schools, companies, etc.) as well as the community.

Influenza Surveillance – Reminders

Important Reminders

- Influenza activity reporting by sentinel providers is voluntary.
- * The influenza surveillance data is used to answer the question of where, when, and what viruses are circulating. It can be used to determine if influenza activity is increasing or decreasing, but it cannot be used to ascertain how many people have become ill with influenza so far this season.
- Reporting is incomplete for this week. Numbers may change dramatically as more reports are received.

Summary of Worldwide A/H5N1 Influenza Activity

Since the recent outbreak activity began at the end of December 2003 there have been a total of 141 confirmed human cases and 73 deaths. Cases and deaths occurred in the following nations: Cambodia 4 cases and 4 deaths; China 6 cases and 2 deaths; Indonesia 16 cases and 11 deaths; Thailand 22 cases and 14 deaths; and, Vietnam 93 cases and 42 deaths. The most recent confirmed cases and deaths have occurred in Indonesia and China over the last week.

Countries reporting confirmed outbreaks of H5N1 in bird species since late December 2003, with the most recent outbreaks listed first, including Romania, Turkey, Ukraine, China, Vietnam, Thailand, Croatia, Kuwait (only one flamingo), Russia, Kazakhstan, Mongolia, Indonesia, Cambodia, Malaysia, Korea (Rep. of), and Japan. The country of Malawi is investigating a mass bird die off, and has sent tissue samples from the dead birds for analysis.

The current phase of alert as defined by the WHO global influenza preparedness plan is phase 3, which states that a new virus subtype is causing disease in humans, but is not yet spreading efficiently and sustainably among humans. 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 direct contact with infected poultry, or with surfaces and objects contaminated by their droppings.



*All confirmed results are from official sources – WHO, CDC, FAO. Information on suspect cases comes from a variety of sources including Epi-X, Promed, and the official sources mentioned above.