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I. Summary

This is the twenty-eighth 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 15, Influenza-like illness (ILI) activity, as reported by FSPISN increased in one of the seven regions (Northeast), while it decreased in six regions (Centraleast, Centralwest, Northcentral, Northwest, Southeast, and Southwest). Overall, state ILI activity as reported by FSPISN decreased this week. Influenza activity levels reported by counties as of April 19, 2006 also decreased compared to the previous week: No counties reported Widespread activity. One county reported Localized activity (Manatee). Fifteen county health departments reported Sporadic ILI activity: (Brevard, Broward, Collier,
II. FSPISN 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 April 15, 2006 was 0.69%, compared to 1.56% for the previous week. ILI activity is below the Florida baseline. This is based on 44% of sentinel sites reporting. The highest weighted % ILI activity reported was in the Centraleast region at 1.13%, while the Northwest region reported the lowest at 0.15% ILI cases.

<table>
<thead>
<tr>
<th>REGION</th>
<th>REPORTED ILI%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centraleast</td>
<td>1.13%</td>
</tr>
<tr>
<td>Centralwest</td>
<td>0.33%</td>
</tr>
<tr>
<td>Northcentral**</td>
<td>0.22%</td>
</tr>
<tr>
<td>Northeast</td>
<td>0.68%</td>
</tr>
<tr>
<td>Northwest</td>
<td>0.15%</td>
</tr>
<tr>
<td>Southeast</td>
<td>0.73%</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.58%</td>
</tr>
</tbody>
</table>

*The ILI activity levels are based on information reported by the Florida Sentinel Physician Influenza Network.
§ FSPISN Reporting is incomplete for this week (44%). Numbers may change dramatically as more reports are received.
** The ILI activity percentage reported for the Northcentral region is based on 2 FSPISN facilities.

III. FSPISN Influenza-like Illness Graphs by Region

- **Florida Baseline**: 3.58%, calculated using the previous 3 years of data as reported by FSPISN. (A line exceeding the baseline indicates moderate ILI activity.)

- **Florida 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
Influenza Surveillance – Reminders

Important Reminders

*Influenza activity reporting by sentinel providers is voluntary*

*The influenza surveillance data is used to answer the questions 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.

IV. Laboratory Surveillance:

During week 15, Florida Department of Health State Laboratories* (Jacksonville) reported 5 specimens tested for influenza viruses and 3 (60%) were positive. Of these, 1 was influenza A (unsubtyped) and 2 were influenza B.

Since October 4, 2005, Florida Department of Health State Laboratories have tested a total of 674 specimens for influenza viruses and 297 (44%) were positive. Among the 297 influenza viruses, 269 (91%) were influenza A viruses and 28 (9%) were influenza B viruses. Two hundred twelve (212) of the 269 influenza A viruses have been subtyped: 208 were influenza A (H3N2) virus and 4 were influenza A (H1N1) virus. Laboratory information is preliminary and may change as additional results are received.

* No report available from Tampa this week.
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:
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 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).
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 flu 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. Influenza-associated deaths among those <18 years of age & post influenza infection encephalitis

As of the week ending April 8, 2006, one influenza-associated death and/or post influenza infection encephalitis among those <18 years of age were reported in the state of Florida.

<table>
<thead>
<tr>
<th>Reportable Disease</th>
<th>Number of Cases 05-06 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/topics/crforms.htm.
VII. Reports of influenza or ILI outbreaks in the community or institutional settings

- Manatee County Health Department reported an Influenza B outbreak in an elementary school on 4/13/06.
- The Department of Corrections reported an influenza A outbreak in a Bay County corrections facility on 3/8/06.
- Duval County Health Department reported an influenza A outbreak in a nursing home on 2/23/06.
- Duval County Health Department reported an influenza A outbreak in an assisted living facility on 2/21/06.
- The Department of Corrections reported an influenza-like illness outbreak in a Jackson County corrections facility on 2/22/06.
- Alachua County Health Department Epidemiology reported an influenza A outbreak in a special needs facility which occurred from 1/20/06 to 2/6/06.
- Brevard County Health Department began investigation of a reported influenza outbreak in a long-term care facility on 2/03/06.

A description of reported influenza or ILI outbreaks in community or institutional settings can be viewed via EpiCom at: https://www.epicom.fl.net. Influenza and ILI outbreaks should be reported to EpiCom on the Influenza forum.

VIII. Summary of Worldwide A/H5N1 Influenza Activity

04/19/06 Summary of Worldwide A/H5N1 Avian Influenza Activity Update 20

Since the recent outbreak activity began at the end of December 2003 there have been a total of 196 confirmed human cases and 110 deaths*. Cases and deaths occurred in the following nations: Egypt 4 cases and 2 deaths; Azerbaijan 8 cases and 5 deaths; Cambodia 6 cases and 6 deaths; China 17 cases and 11 deaths; Indonesia 32 cases and 24 deaths; Thailand 22 cases and 14 deaths; Vietnam 93 cases and 42 deaths; Turkey 12 cases and 4 deaths; and, Iraq 2 case and 2 deaths. The most recent confirmed cases and deaths occurred in Indonesia (one case and death) and China (one case). The Indonesian case is a 24 year old male, he had symptom onset on March 29th, was hospitalized April 5th and died April 8th. Health officials are investigating the source of the exposure. The Chinese case is a 21 year old male migrant worker employed Wuhan City, Hubei province. He developed symptoms April 1st and is currently hospitalized in critical condition. No poultry outbreaks have been reported in Hubei province since November 2005 and the source of the man’s exposure is under investigation.

Over the last week there has only been one report of the H5N1 virus spreading to a new country, however, the virus continues to cause outbreaks in some previously impacted countries. Countries reporting confirmed outbreaks of H5N1 in bird species since late December 2003, with the most recent outbreaks listed first, include the Czech Republic, United Kingdom (Scotland), Burkina Faso, Jordan, Sweden, Israel, Afghanistan, Cameroon, Myanmar, Albania, Serbia and Montenegro, Hungary, Poland, Switzerland, Niger, Slovakia, France, Austria, Malaysia, Azerbaijan, India, Slovenia, Bosnia Herzegovina, Palestinian Autonomous Territories, Germany, Nigeria, Egypt, Bulgaria, Italy, Greece, Iran, Croatia, Cyprus, Ukraine, Turkey, Romania, Indonesia, China, Russia, Thailand, Vietnam, Kuwait (only one flamingo), Kazakhstan, Mongolia, Cambodia, Korea (Rep. of), and Japan. Countries with confirmed H5 (neuraminidase not determined yet) infection in birds include the Philippines, Iraq, and Laos. Extensive testing of wild bird species in the area has not found additional infected birds.

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.
*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.