

# FLORIDA INFLUENZA SURVEILLANCE

Week 20: May 11th 2008—May 17th 2008



Kateesha McConnell, MPH, FL EIS Fellow  
 Kate Goodin, MPH, Surveillance Epidemiologist  
 Lillian Stark, PhD, MPH, MS, Bureau of Laboratories-Tampa  
 Valerie Mock, Bureau of Laboratories—Jacksonville  
 Julian Everett, Influenza Coordinator



## IN THIS ISSUE:

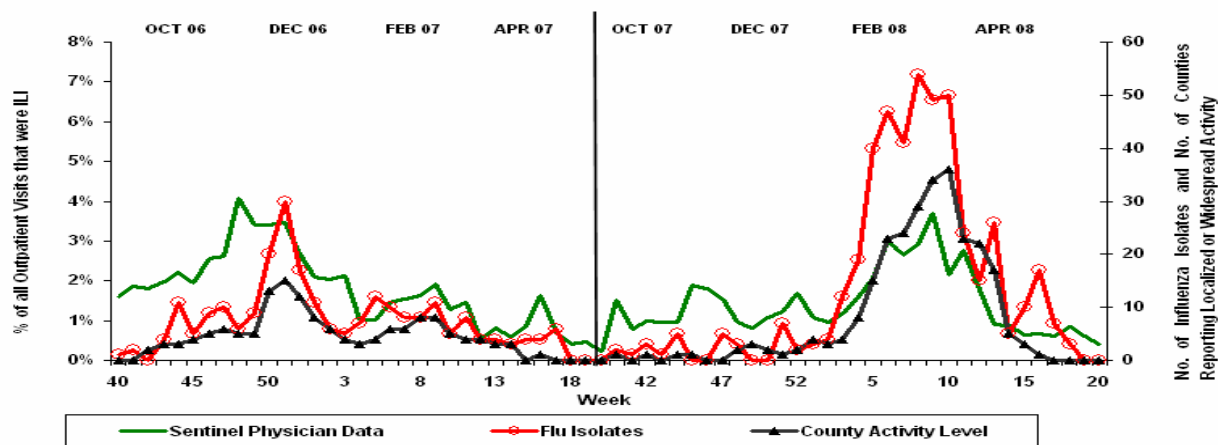
- I. Summary
- II. FSPISN Influenza-like Illness Statewide Graph
- III. Florida Pneumonia and Influenza Mortality Surveillance
- IV. FDOH Laboratory Surveillance
- V. Laboratory and Influenza-like Illness Surveillance by Region
- VI. County Influenza Activity Map
- VII. Reports of Influenza or Influenza-like 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 the thirty-third 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. No activity has been reported in Florida for this reporting week (Week 20). There has been a decrease in overall influenza activity in the state. Because of this decrease, 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>.

During week 20 the proportion of patient visits for influenza-like illness (ILI) as reported by the Florida Sentinel Physician Influenza Surveillance Network was 0.41 percent. This is below the state threshold for moderate activity of 1.75 percent. There were no ILI specimens tested by Bureau of Laboratories this week. No counties reported widespread or localized activity. Ten counties reported sporadic activity and 40 counties reported no activity. Eighteen 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.



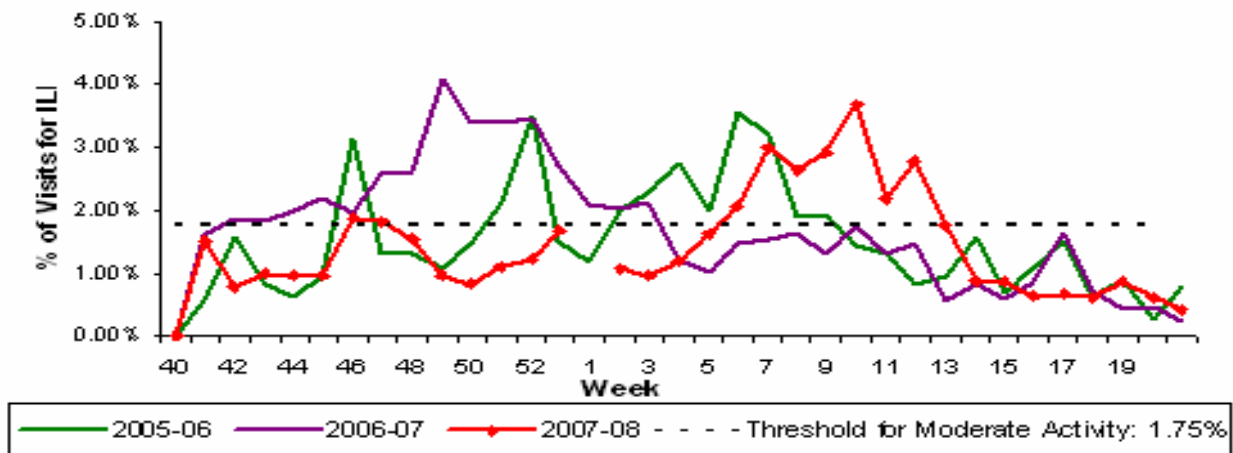
\*The purposes of these surveillance systems are to determine when and where influenza activity is occurring, to identify circulating viruses, to detect changes in the circulating influenza viruses, to track patterns of influenza-associated morbidity and mortality and estimate the overall impact of influenza 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 20, 0.41%\* of patient visits to Florida sentinel providers were due to ILI. This percentage is below the statewide baseline of 1.75%\*\*. The percentage of visits ranged from 0.00% in the Centraleast, Northcentral, Northeast, and Southwest regions to 0.90% in the Southeast region. For the 2006-07 influenza season the statewide ILI activity percent 0.23% for week 20.

**Percentage of Visits for Influenza-like Illness Reported by Sentinel Providers Statewide Summary 2007-08, 2006-07, and 2005-06**



\*FSPISN reporting is incomplete for this week (34%). Numbers may change as more reports are received.

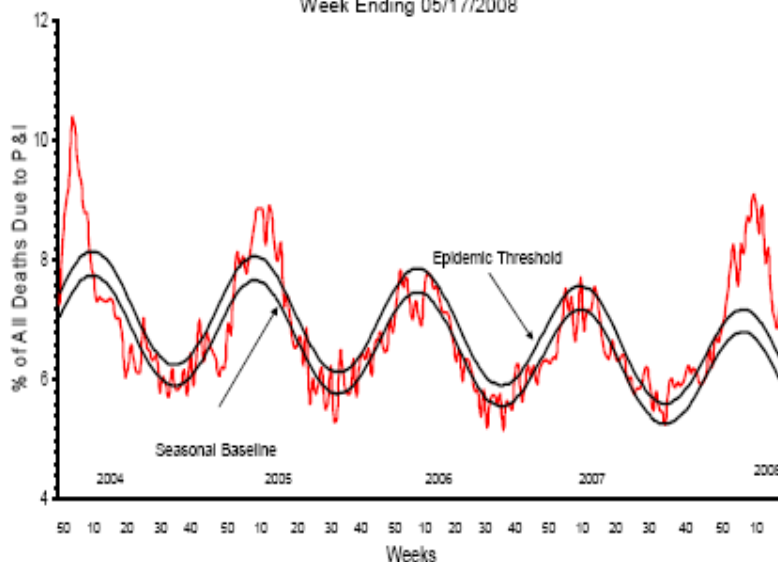
\*\*The 2006—07 threshold for moderate activity is calculated from the previous 3 years of FSPISN data. Only weeks with 10% or greater of laboratory specimens testing positive are included in the calculation. The threshold is only specific to 2007—08 data.

## III. Florida Pneumonia and Influenza Mortality Surveillance

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

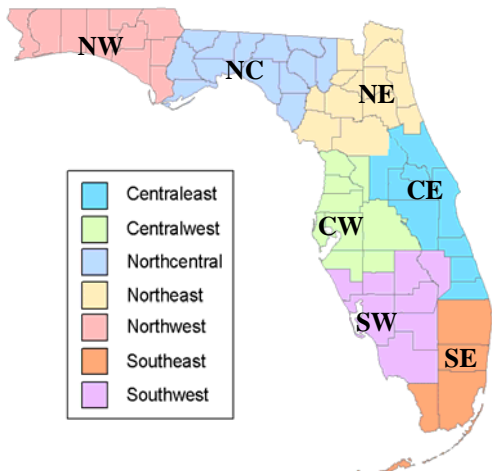
**Pneumonia and Influenza (P&I) Mortality Surveillance:** During week 20, 7.3% of all deaths reported through the 122 Cities Mortality Reporting System were reported as due to P&I. This percentage is above the epidemic threshold of 6.3% for week 20. Including week 20, P&I mortality has been above epidemic threshold for 19 consecutive weeks.

**Pneumonia and Influenza Mortality for 122 U.S. Cities**  
Week Ending 05/17/2008



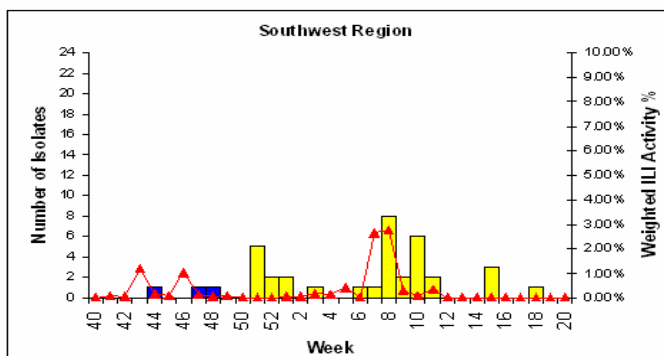
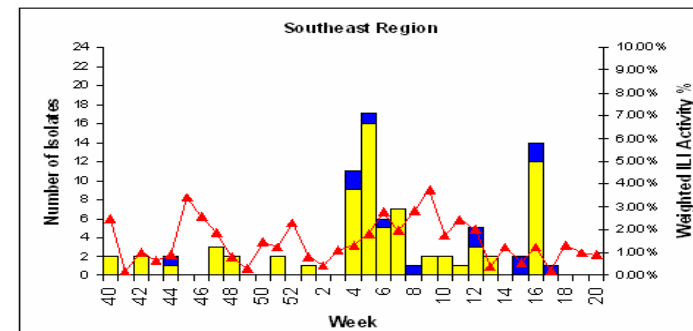
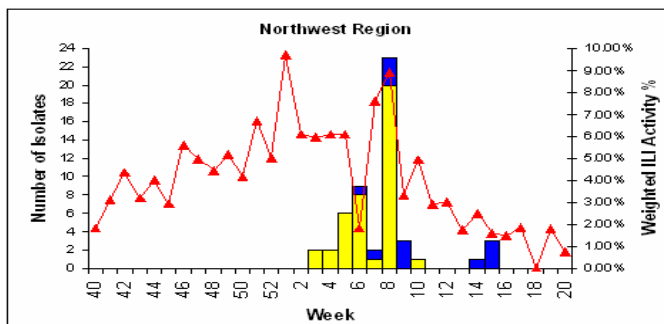
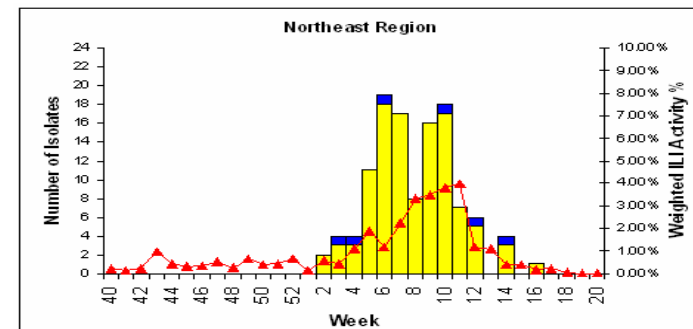
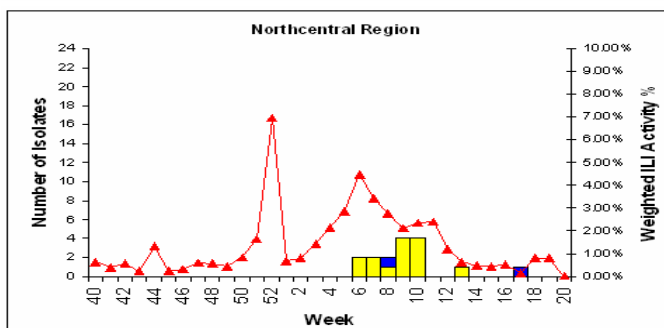
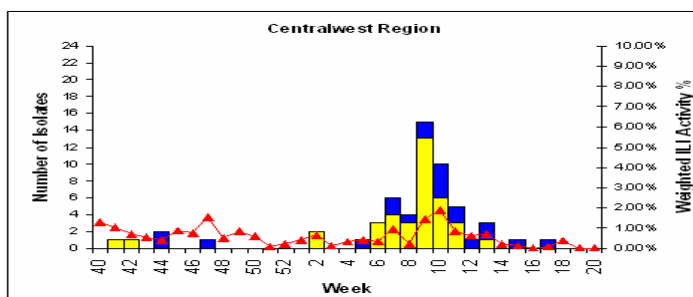
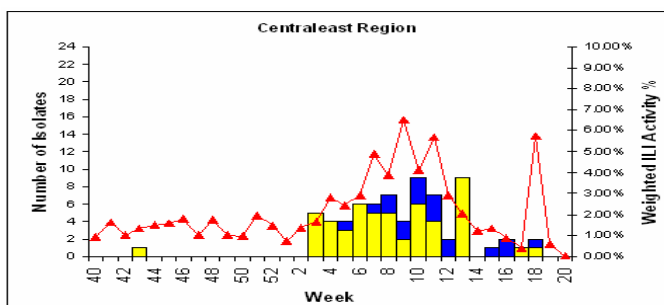
# IV. LABORATORY AND INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE BY REGION

## Influenza Surveillance Regions



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 20: FSPISN Weighted ILI Activity, by Region 2006-07 & 2007-08 Seasons		
REGION	2007-08 ILI %	2006-07 ILI %
Centraleast	0.00%	0.76%
Centralwest	0.02%	0.26%
Northcentral	0.00%	0.64%
Northeast	0.00%	0.15%
Northwest	0.75%	0.00%
Southeast	0.90%	0.00%
Southwest	0.00%	0.00%



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



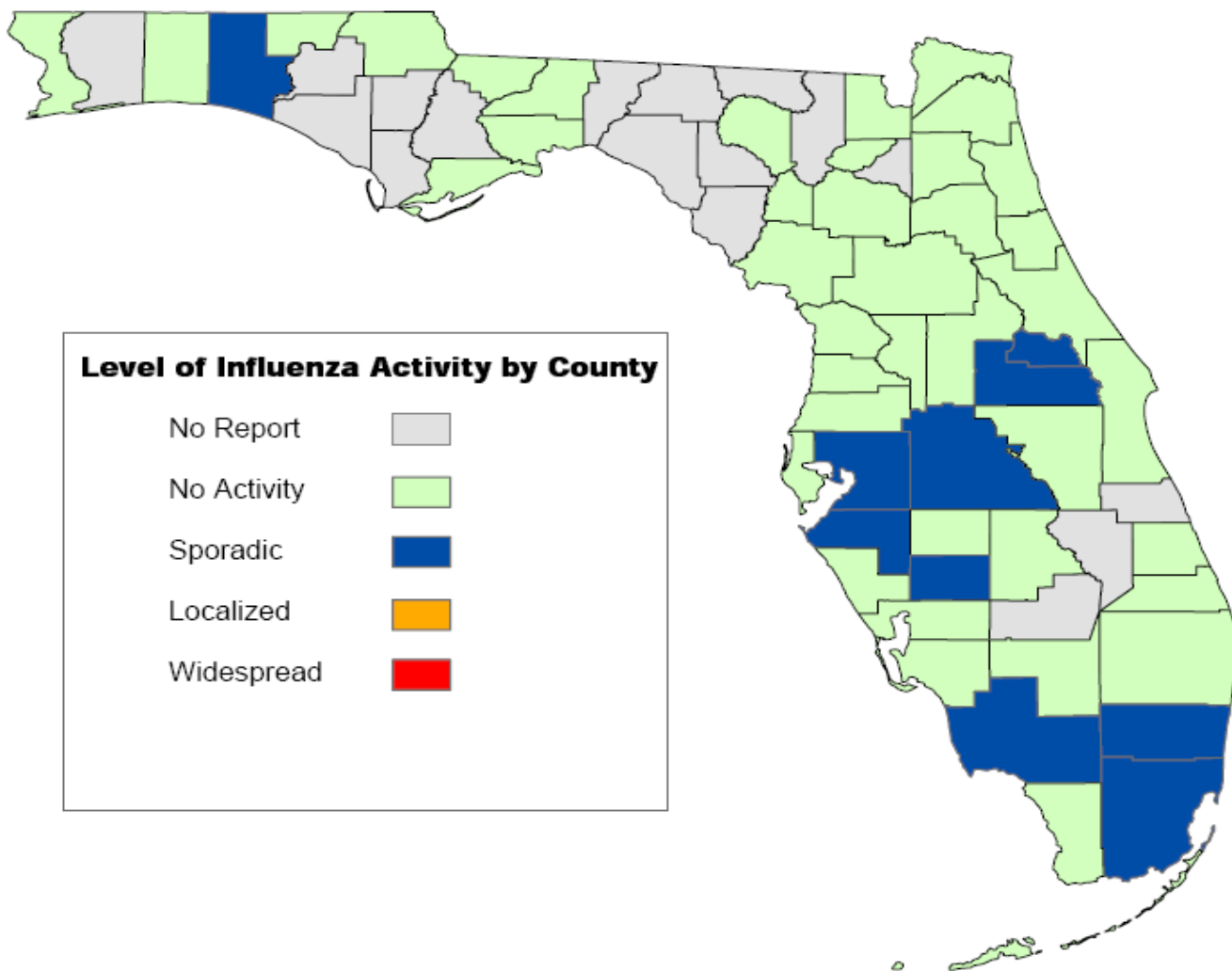
**V. COUNTY INFLUENZA ACTIVITY MAP**

During week 20, no counties reported widespread activity or localized activity. Ten counties (Broward, Collier, Dade, DeSoto, Hillsborough, Manatee, Orange, Polk, Seminole, Walton) reported sporadic activity. Forty counties reported no activity. Eighteen counties did not report.






# Weekly County Influenza Activity

(Week ending May 17, 2008 - Week 20)

County influenza activity levels are reported by county health department epidemiologists



**Level of Influenza Activity by County**

No Report	
No Activity	
Sporadic	
Localized	
Widespread	



**Florida Department of Health**  
**Bureau of Epidemiology**

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 Map printed May 23, 2008

## COUNTY INFLUENZA ACTIVITY LEVEL DEFINITIONS

### 0 = No Activity:

Overall clinical activity remains low with no laboratory confirmed cases<sup>†</sup> in the county.

### 1 = Sporadic:

- And/or {
- Isolated cases of laboratory confirmed influenza<sup>†</sup> in the county.
  - An ILI<sup>§</sup> outbreak in a single setting<sup>‡</sup> in the county. (No detection of decreased ILI<sup>§</sup> activity by surveillance systems\*)

### 2=Localized:

- And/or {
- An increase of ILI<sup>§</sup> activity detected by a *single* surveillance system\* within the county. (An increase in ILI<sup>§</sup> activity has not been detected by *multiple* ILI surveillance systems.)
  - Two or more outbreaks (ILI<sup>§</sup> or lab confirmed<sup>†</sup>) detected in a *single* setting<sup>‡</sup> in the county.

### AND

- Recent (within past three weeks) laboratory evidence<sup>†</sup> of influenza activity in the county.

### 3=Widespread:

- And/or {
- An increase in ILI<sup>§</sup> activity detected in  $\geq 2$  surveillance systems in the county.
  - Two or more outbreaks ((ILI<sup>§</sup> or laboratory confirmed<sup>†</sup>) detected in *multiple* settings<sup>‡</sup> in the county.

**No Report:** (No report was received from the county at the time of publication)

<sup>†</sup> Laboratory confirmed case = case confirmed by rapid diagnostic test, antigen detection, culture, or PCR.

<sup>§</sup> ILI = Influenza-like illness, fever  $\geq 100^{\circ}\text{F}$  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.

<sup>‡</sup>Settings include institutional settings (LTCFs, hospitals, prisons, schools, companies) & the community.

## VI. REPORTS OF INFLUENZA OR INFLUENZA-LIKE ILLNESS (ILI) OUTBREAKS

During week 17, a fatal case of influenza was noted in a 42-year old individual from the Centraleast region. A specimen was collected and sent to the state lab in Tampa for testing. Results were positive for influenza B Shanghai.

During week 16, testing was conducted at the State Lab in Jacksonville on samples submitted from a recent influenza outbreak at a Miami-Dade County correctional institution. All five specimens tested positive for Influenza A however, as of 04/18/08 no specific virus had been isolated.

During week 15, the Escambia CHD was notified by the state health office of an influenza outbreak at a local nursing home. Forty-six out of 100 residents had symptoms consistent with influenza. Three out of the 5 specimens sent to the state lab in Tampa were positive for influenza B. Of the residents with ILI, 50% had received their flu vaccines (most were given in June 2007). All ill residents were treated with Tamiflu and one fatality was associated with this outbreak.

The Miami-Dade CHD Office of Epidemiology and Disease Control received a report on 04/07/08 of a local correctional institution (CI) reporting 12 female inmates with ILI symptoms. The earliest onset of symptoms was on 04/03/08. Control measures were implemented at the CI and viral testing will be conducted. The investigation is still ongoing at this time.

## VII. NOTIFIABLE DISEASE REPORTS: INFLUENZA-ASSOCIATED DEATHS AMONG CHILDREN (<18 YEARS) & POST-INFLUENZA INFECTION ENCEPHALITIS

As of the week ending May 17, 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	3
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: [http://www.doh.state.fl.us/disease\\_ctrl/epi/topicscrforms.htm](http://www.doh.state.fl.us/disease_ctrl/epi/topicscrforms.htm).



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

Update 04/30/2008

Since the recent outbreak activity began at the end of December 2003, there have been a total of 382 confirmed human cases and 241 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 50 cases and 22 deaths; Indonesia 133 cases and 108 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.

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](http://www.who.int/csr/disease/avian_influenza/guidelines/case_definition2006_08_29/en/index.html)

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/guidelines/wer8126/en/index.html](http://www.who.int/csr/disease/avian_influenza/guidelines/wer8126/en/index.html)

During weeks 18, 19, and 20 there were no new posted updates.

During week 17, the Ministry of Health Indonesia announced a new human case of avian influenza A (H5N1). The case was a 3-year-old male from Wonogiri District, Central Java Province with symptom onset April 14th followed by hospitalization on April 21st and death on April 23rd. A history of contact with sick and/or dead poultry was noted.

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.

