

Week 22: May 27– June 2, 2012

Summary

The Florida Department of Health (FDOH) monitors multiple surveillance systems such as the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE), the Florida Pneumonia and Influenza Mortality Surveillance System (FPIMSS), notifiable disease reports (Merlin), EpiCom, and Florida ILINet in order to track influenza activity in the state.

State:

Influenza and Influenza-like illness (ILI) activity in Florida is low in most FDOH surveillance systems. ESSENCE emergency department data show elevated percent ILI in some counties, compared to previous years at this time. Most counties report low to no activity. Four counties report moderate activity.

- No ILI or influenza outbreaks were reported to EpiCom in week 22.
- In week 22, 3 specimens tested PCR-positive for influenza at the state lab. Three specimens tested positive for influenza B. In recent weeks, influenza B has been the most common strain identified by the state lab. Other viruses known to be currently circulating, potentially causing ILI, include adenovirus, rhinovirus, parainfluenza, and respiratory syncytial virus (RSV).

TABLE 1: Summary of Florida Influenza-Like Illness (ILI) Activity for Week 22

TABLE 1. Building of Horida mindeliza-line miless (iii) Activity for week 22						
Measure	Difference from previous week	Current week 22	Previous week 21	Page of Report	In this Issue: Summary	
Percent of visits to ILINet providers for ILI	▼ 0.5	1.6%	2.1%	2	NREVSS Respire Surveillance	
Percent of emergency department visits (from ESSENCE) due to ILI	▲ 0.2	2.4%	2.2%	3	Outpatient Influe Surveillance Net Statewide	
Percent of laboratory specimens that were positive for influenza	▼ 1.4	21.4%	22.8%	5	Influenza and IL in EpiCom	
Number of counties reporting moderate influenza activity	▲ 1	4	3	6 ESSENCE Syndr		
Number of counties reporting widespread influenza activity	No Change	0	0	6	ESSENCE Synder	
Number of counties reporting increasing influenza activity	▼ 1	6	7	7		
Number of counties reporting decreasing influenza activity	▲ 3	7	4	7	County Influenza	
Number of ILI outbreaks reported in EpiCom	No Change	0	0	10	County Influenza	

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June 6, 2012

Posted on the Bureau of Epidemiology website: http:// www.doh.state.fl.us/floridaflu/

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County Influenza Activity Trend

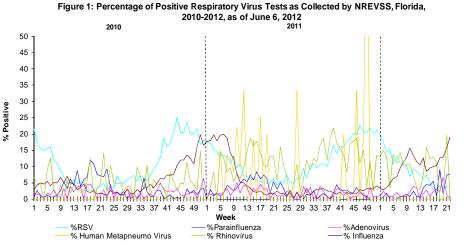
NREVSS Respiratory Virus Surveillance

The National Respiratory and Enteric Virus Surveillance System (NREVSS) collects data from laboratory facilities around the country on a weekly basis. NREVSS monitors temporal and geographic patterns of RSV, human parainfluenza viruses, human metapneumo virus (HMPV), respiratory and enteric adenoviruses, and rotavirus. Florida has over 30 participating laboratory facilities.

FIGURE 1 shows the percentage of positive tests for multiple respiratory viruses reported by NREVSSparticipating laboratories in Florida

The 6 respiratory viruses summarized in Figure 1 are:

- RSV
- Parainfluenza 1-3
- Adenovirus
- HMPV
- Rhinovirus
- Influenza

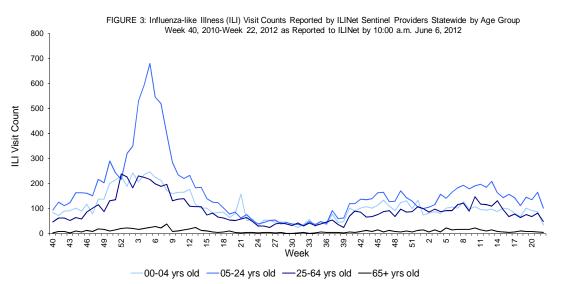


ILINET Influenza-like Illness-Statewide

ILINet is a nationwide surveillance system composed of sentinel providers. Florida has 110 providers enrolled in ILINet who submit weekly ILI and total visit counts, as well as submitting ILI specimens to the BOL for confirmatory testing.

> as Reported by 10:00 a.m. June 6, 20 6% 5% 4% Percent of Visits for ILI % % % 1% 0% 2 33 15 r ŝ ŝ g 35 33 20 2 5 ŝ ž Week 2008-2009 2009-2010^ -2010-2011^ -2011-2012

> > *ILI = Influenza-like illness, fever >100F AND sor e throat and/or cough in the absence of another known cause. ^There is no week 53 during the 2009-2010, 2010-2011, and 2011-12 seasons; the week 53 data point for those seasons is an average of weeks 52 and 1.



†Data presented here are counts, not proportions as included in Figure 2. This is because age group denominator data is not available through ILINet.

Influenza and ILI Outbreaks

In week 22 there were no influenza or ILI outbreaks reported via EpiCom.

Eleven influenza or ILI outbreaks were reported via EpiCom in the 2011-12 influenza season.

FIGURE 2 shows the percentage of visits for ILI* reported by ILINet Sentinel Providers statewide.

ILI percent positive remains low and similar to other non-pandemic seasons at this time. ILINet Provider reporting declines in the summer months. Figures will be updated as new data are received.

62 of 110 ILINet Sentinels have reported visit counts as of 11:00 a.m., June 6, 2012.

14 of 16 ILINet Super-Sentinels have reported visit counts as of 11:00 a.m., June 6, 2012.

FIGURE 3 shows ILI visit counts

statewide by age group.

groups in week 22.

reported by ILINet sentinel providers

ILI visit counts are decreasing in all age

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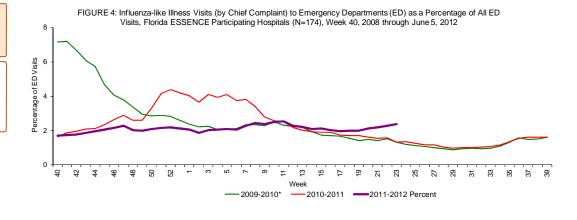
FIGURE 2: Percentage of Visits for Influenza-Like Illness (ILI)* Reported by ILINet Sentinel Providers Statewide, 2008-2009 (Weeks 40-39), 2009-2010 (Weeks 40-39), 2010-2011 (Week 40-39), and 2011-2012 (Weeks 40-22)

ESSENCE Syndromic Surveillance Summary-Statewide

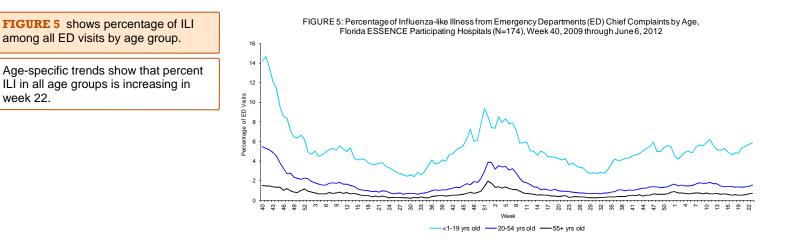
Florida uses ESSENCE for syndromic surveillance, which currently collects data daily from 174 hospital emergency departments (ED). These data are processed into 11 different syndrome categories based on the patient's chief complaint. One of the categories is ILI, which is composed of chief complaints that include the words "influenza" or "flu," or complaints that contain fever plus cough and/or sore throat.

FIGURE 4 shows ESSENCE data on ILI visits to EDs as a percentage of all ED Visits.

Overall activity for influenza-like illness reported in ESSENCE is elevated compared to levels seen in previous non-pandemic seasons at this time.



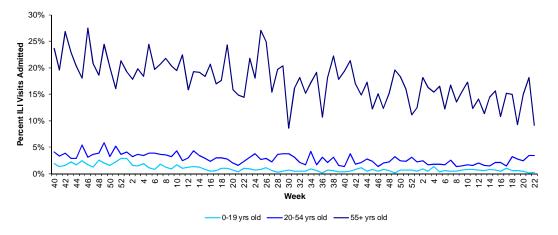
*There is no week 53 for the 2007-2008, 2009-2010, and 2010-2011 seasons; the week 53 data point for those seasons is an average of weeks 52 and 1.



One hundred five ESSENCE participating facilities are able to provide discharge disposition data for their ED visits going back to week 40, 2010. Using this information, the percent of ED visits for ILI that result in hospitalization can be calculated. The highest percentage of admissions is in the 55+ years old age group. The low number of visits in the 55+ age group causes variability in the ILI admission percentage from week to week.

FIGURE 6 shows the percentage of ED visits for ILI that resulted in hospitalization, by age group.

Figure 6: Percentage of ED Visits Resulting for ILI Resulting in Hospital Admission, Hospitals Reporting Discharge Disposition (N=105), Week 40, 2010 to Week 22, 2012



week 22.

ESSENCE Syndromic Surveillance Summary-Regional

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FIGURE 7 - FIGURE 13 describe ED chief complaint data from ESSENCE by Regional Domestic Security Task Force (RDSTF).

ILI activity in ESSENCE is elevated over previous years at this time in Regions 1, 3, 5, 6 and 7.



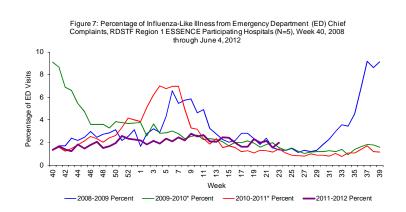
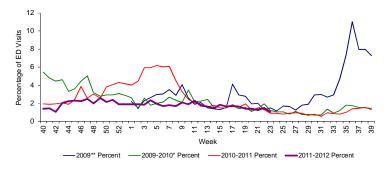
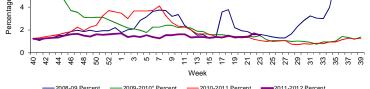
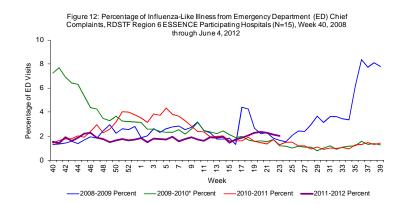


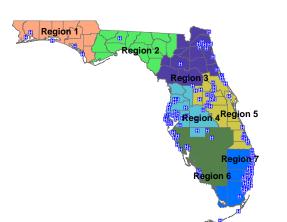
Figure 8: Percentage of Influenza-Like Illness from Emergency Department (ED) Chief Complaints, RDSTF Region 2 ESSENCE Participating Hospitals (N=2), Week 1, 2009 through June 4, 2012

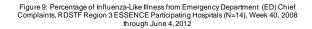


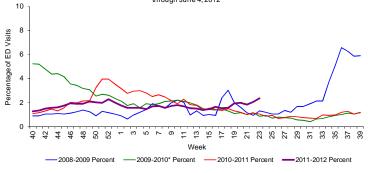












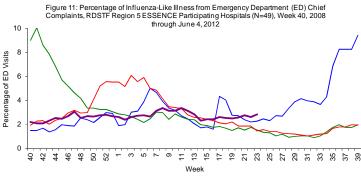


Figure 13: Percentage of Influenza-Like Illness from Emergency Department (ED) Chief Complaints, RDSTF Region 7 ESSENCE Participating Hospitals (N=48), Week 40, 2008 through June 4, 2012 8 Percentage of ED Visits 6 4 2 0 σ 4 42 4 46 48 50 52 Ξ Week



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*There is no week 53 for the 2009-2010, 2010-2011 and 2011-2012 seasons; the week 53 data point for those seasons is an average of weeks 52 and 1. **Historical data for region 2 is only available beginning week 1, 2009.

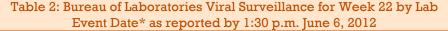
Bureau of Laboratories Viral Surveillance

Table 2shows the number ofspecimens tested by the Bureau ofLaboratories (BOL), how many areinfluenza positive, and how many areH1N1 or other influenza subtypes.

FIGURE 14 - FIGURE 15 use BOL viral surveillance data to track the progress of influenza infection over time. They include weekly information on how many specimens are tested by the BOL, what proportion of those test positive for influenza, and what subtypes are found for the positive influenza specimens.

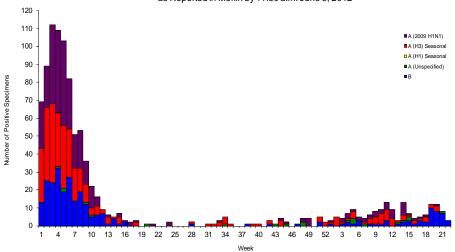
Small numbers of influenza specimens submitted to BOL tested positive for influenza A H3, 2009 H1N1, and influenza B.

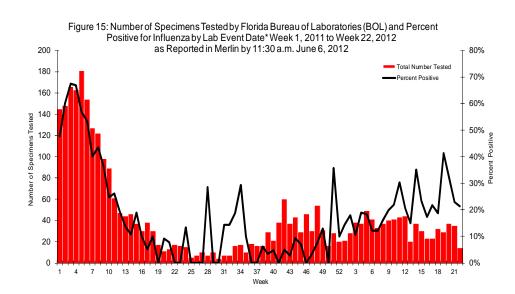
Influenza B has been the most common strain detected by BOL in recent weeks.



	Current Week 22	Previous Week 21
Total Specimens Tested	14	35
Influenza Positive Specimens (% of total)	3 (21.4%)	8 (22.8%)
H1N1 Positive Specimens (% of influenza positives)	-	-
H3 Influenza A	-	-
Influenza A Unspecified	-	1 (12.5%)
Influenza B Unspecified	2 (100%)	7 (77.1%)

Figure 14: Number of Influenza-Positive Specimens Tested by the Florida Bureau of Laboratories (BOL) by Subtype by Lab Event Date* Week 1, 2011 to Week 22, 2012 as Reported in Merlin by 11:30 a.m. June 6, 2012





*Please note that lab event date is defined as the earliest of the following dates associated with the lab: date collected, date received by the laboratory, date reported, or date inserted.

For county-specific laboratory data, please refer to the Flu Lab Report in Merlin.

For instructions on how to use the Flu Lab Report, please see the Guide to Flu Lab Report on the Bureau of Epidemiology website: http://www.doh.state.fl.us/disease_ctrl/epi/htopics/flu/FluLabReportGuide.pdf

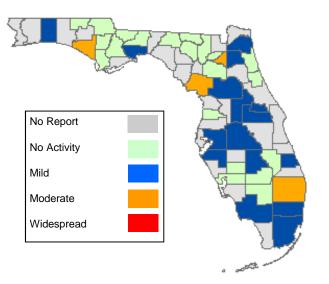
County Influenza Activity

As of 4:00 p.m. June 6, 2012 a total of 41 (61%) counties had reported their weekly level of influenza activity. During the summer months, counties have the option of continuing to report influenza activity. *Please note that data reported by counties after the deadline Tuesday at 5 p.m. are recorded but may not be included in the activity map for previous weeks.*

TABLE 3: Weekly County Influenza Activity for Week 22 (ending June 2, 2012) as Reported by 4:00 p.m. June 6, 2012				
Activity Level	Week 21 Number of Counties	Week 22 Number of Counties	Week 22 Counties	
No Report	29	28	Baker, Brevard, Citrus, Dixie, Escambia, Franklin, Gilchrist, Hardee, Indian River, Jefferson, Lafayette, Lee, Martin, Monroe, Nassau, Osceola, Pasco, Pinellas, Putnam, Santa Rosa, Sarasota, Sumter, Taylor, Us Virgin Islands, Volusia, Walton, Washington	
No Activity	17	21	Alachua, Calhoun, Charlotte, Columbia, Desoto, Flagler, Gadsden, Glades, Gulf, Hamilton, Hendry, Hernando, Holmes, Jackson, Leon, Liberty, Madison, Okeechobee, St. Johns, Suwannee, Union	
Mild	19	16	Broward, Clay, Collier, Dade, Duval, Highlands, Hillsborough, Lake, Manatee, Marion, Okaloosa, Orange, Polk, Seminole, St. Lucie, Wakulla	
Moderate	3	4	Bay, Bradford, Levy, Palm Beach	
Widespread	-	-	-	

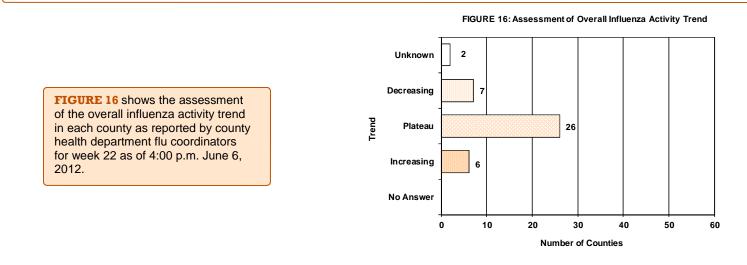
Map 2: Weekly County Influenza Activity for Week 22 as Reported by 4:00 p.m. June 6, 2012

A total of 40 counties report influenza activity in week 22. Most reporting counties reported no or mild activity. Four counties report moderate activity.



County Influenza Activity

County influenza activity data is reported to the Bureau of Epidemiology through EpiGateway on a weekly basis by the county influenza coordinator. Specific information is requested about laboratory results, outbreak reports, and surveillance system activity. Figures 16-25 displayed below reflect a county's assessment of influenza activity within their county as a whole as well as influenza activity within specific settings. For week 22, 7 counties indicated that activity was decreasing, 25 indicated it was about the same as previous weeks, and six indicated that activity was increasing.



Definitions for the County Influenza Activity Trends are available at: <u>http://www.doh.state.fl.us/disease_ctrl/epi/CountyInfluenzaTrendGuide.html</u>

Counties are asked to evaluate influenza activity in certain settings within their county. Each setting has a scale for activity that ranges from none or minimal activity to very high activity. What defines each of the values varies by facility type, but the example of the assessment in elementary, middle, and high schools is included below. More detailed information on the meanings of the levels for each setting can be found on the webpage also included below.

No or very minimal activity -- Scattered cases of ILI with no increase in absenteeism or disruption of school activities.

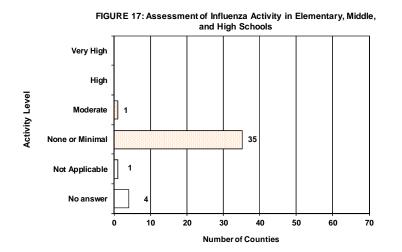
Moderate activity -- Absenteeism elevated above baseline (in range of 10 to 25%) in some but fewer than half of schools where it is known; occasional children sent home because of ILI.

High activity -- Absenteeism elevated above baseline (in range of 10 to 25%) in more than half of schools; most schools sending several or many children home each day because of ILI.

Very high activity -- Absenteeism high enough to force curtailment of some or all school activities.

County influenza settings assessment guides are available at: http://www.doh.state.fl.us/disease ctrl/epi/FluAssessment.htm

FIGURE 17 - FIGURE 18 show the activity levels in various facilities by county as reported by county health department influenza coordinators for week 22 as of 4:00 p.m. June 6, 2012.



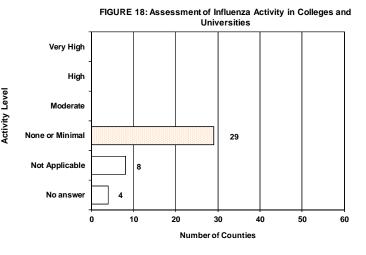


FIGURE 19 - FIGURE 25 show the activity levels in various facilities by county as reported by county health department influenza coordinators for week 22 as of 4:00 p.m. June 6, 2012.

