

Week 31: July 29 – August 4, 2012

ummary

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:

FDOH influenza and influenza-like illness (ILI) surveillance systems are showing an unusual amount of activity for this time of year. Although flu activity remains sporadic, it has not yet declined to summer baseline levels. ESSENCE emergency department data show elevated percent ILI in some regions compared to previous years at this time. No counties report moderate influenza activity.

In week 31, six specimens tested PCR-positive for influenza at the state lab. All six 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).

HEALTH

1

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Epidemiology website: http:// www.doh.state.fl.us/floridaflu/

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In this Issue:

TABLE 1: Summary of Florida Ir	nfluenza-Like Illne	ss (ILI) Activ	vity for Weel	c 31	
Measure	Difference from previous week	Current week 31	Previous week 30	Page of Report	
Percent of visits to ILINet providers for ILI	▼ 0.1	0.7%	0.8%	2	
Number of ILI outbreaks reported in EpiCom	No Change	0	0	2	
Percent of emergency department visits (from ESSENCE) due to ILI	▼ 0.2	1.3%	1.5%	3	
Number of laboratory specimens that were positive for influenza out of total submissions	▲ 1	6/8	5/21	5	
Number of counties reporting moderate influenza activity	No Change	0	0	6	
Number of counties reporting widespread influenza activity	No Change	0	0	6	

TABLE 1: Summary of Florida Influenza-Like Illness (ILI) Activity for Week 31

REVSS Respiratory Virus 1 urveillance utpatient Influenza-like Illness 2 urveillance Network (ILINET)tatewide fluenza and ILI outbreaks reported 2 EpiCom SSENCE Syndromic Surveillance 3 ummary-Statewide SSENCE Syndromic Surveillance 4 ummary-Regional orida Bureau of Public Health 5 aboratories Viral Surveillance ounty Influenza Activity Map 6

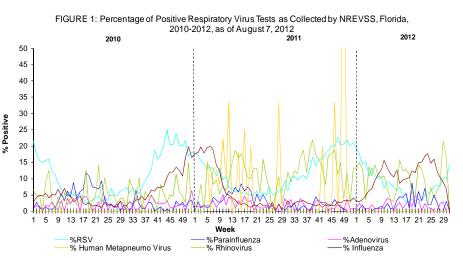
NREVSS Respiratory Virus Surveillance

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. Twenty-eight facilities reported in week 31.

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

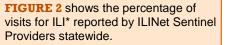
The 6 respiratory viruses summarized in Figure 1 are:

- 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 Bureau of Public Health laboratories (BPHL) for confirmatory testing.



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.

58 of 110 ILINet Sentinels have reported visit counts as of 11:00 a.m., August 8, 2012.

12 of 16 ILINet Super-Sentinels have reported visit counts as of 11:00 a.m., August 8, 2012.

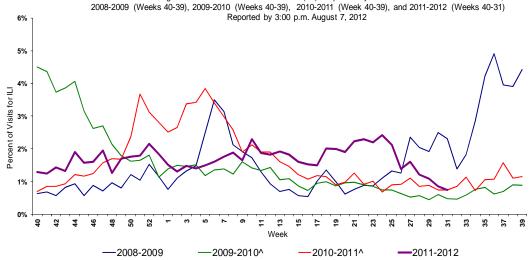
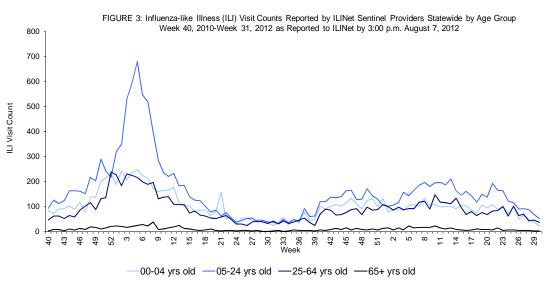


FIGURE 2: Percentage of Visits for Influenza-Like Illness (ILI)* Reported by ILINet Sentinel Providers Statewide,

*ILI = Influenza-like illness, fever >100°F AND sore 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.

FIGURE 3 shows ILI visit counts reported by ILINet sentinel providers statewide by age group.

ILI visit counts are decreasing in the 0-64 age group in week 31. ILI visit counts are flat in the 65+ age group in week 31.



†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 31 there were no influenza or ILI outbreaks reported via EpiCom.

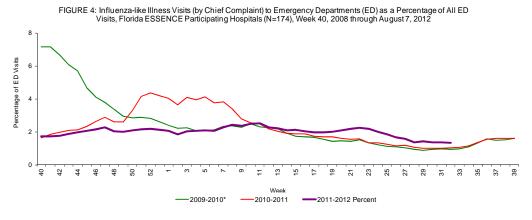
Seven influenza or ILI outbreaks were reported via EpiCom in summer 2011-12.

ESSENCE Syndromic Surveillance Summary-Statewide

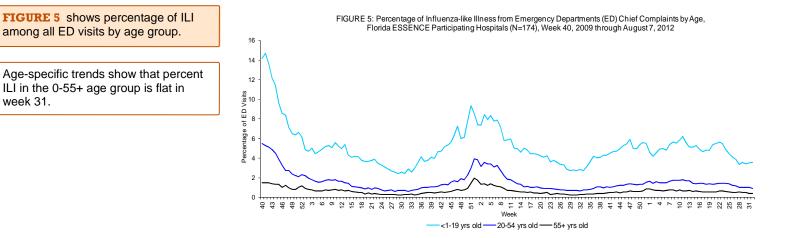
Florida uses ESSENCE for syndromic surveillance, which currently collects data daily from 174 hospital emergency departments (ED). These data are processed into 11 different syndrome categories based on the patient's chief complaint. One of the categories is ILI, which is composed of chief complaints 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 ILI reported in ESSENCE is elevated compared to levels seen in previous non-pandemic seasons at this time.



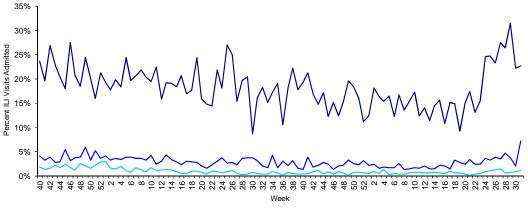
*There is no week 53 for the 2007-2008, 2009-2010, and 2010-2011 seasons; the week 53 data point for those seasons is an average of weeks 52 and 1.



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 31, 2012



page 3

ESSENCE Syndromic Surveillance Summary-Regional

page 4

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 2, 3, 5 and 7.



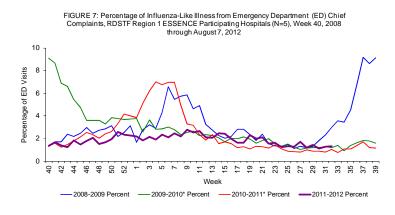


FIGURE 8: Percentage of Influenza-Like Illness from Emergency Department (ED) Chief Complaints, RDSTF Region 2 ESSENCE Participating Hospitals (N=2), Week 1, 2009 through August 7, 2012

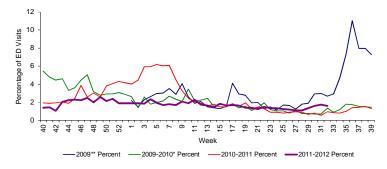


FIGURE 10: Percentage of Influenza-Like Illness from Emergency Department (ED) Chief Complaints, RDSTF Region 4 ESSENCE Participating Hospitals (N=31), Week 40, 2008 through August 7, 2012

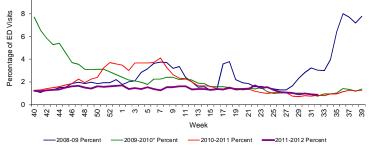
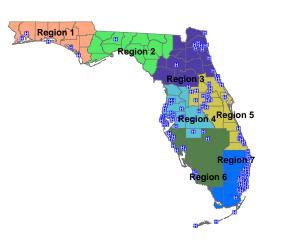
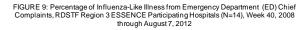
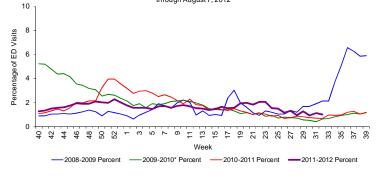


FIGURE 12: Percentage of Influenza-Like Illness from Emergency Department (ED) Chief Complaints, RDSTF Region 6 ESSENCE Participating Hospitals (N=15), Week 40, 2008 through August 7, 2012 10 8 Percentage of ED Visits 6 4 2 0 0 4 2 3 4 4 4 4 50 52 52 -Week -2009-2010* Percent -2010-2011 Percent --2008-2009 Percent --2011-2012 Percent







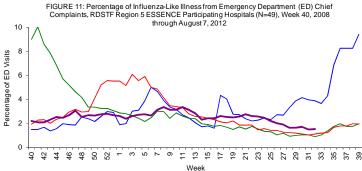


FIGURE 13: Percentage of Influenza-Like Illness from Emergency Department (ED) Chief Complaints, RDSTF Region 7 ESSENCE Participating Hospitals (N=48), Week 40, 2008 through August 7, 2012 8 Percentage of ED Visits 6 4 2 0 σ 4 42 4 46 48 50 52 Ξ Week -2008-2009 Percent --2009-2010* Percent -2010-2011 Percent -2011-2012 Percent

Return to Top

*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.

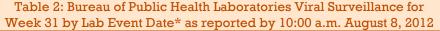
Bureau of Public Health Laboratories Viral Surveillance

Table 2 shows the number of specimens tested by the Bureau of Public Health Laboratories (BPHL), how many are influenza positive, and how many are H1N1 or other influenza subtypes.

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

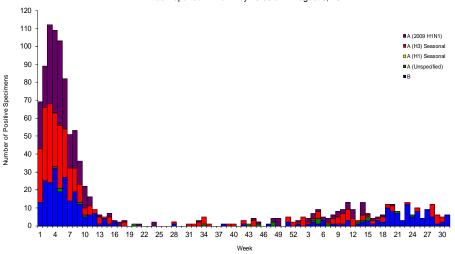
Small numbers of influenza specimens submitted to BPHL tested positive for influenza A H3, 2009 H1N1, and influenza B.

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

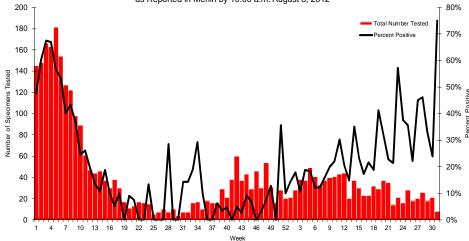


	Current Week 31	Previous Week 30
Total Specimens Tested	8	21
Influenza Positive Specimens (% of total)	6 (75.0%)	5 (23.8%)
H1N1 Positive Specimens (% of influenza positives)	-	-
H3 Influenza A	-	3 (60.0%)
Influenza A Unspecified	-	-
Influenza B Unspecified	6 (100.0%)	2 (40.0%)

FIGURE 14: Number of Influenza-Positive Specimens Tested by the Florida Bureau of Public Health Laboratories (BPHL) by Subtype by Lab Event Date* Week 1, 2011 to Week 31, 2012 as Reported in Merlin by 10:00 a.m. August 8, 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: <u>http://www.doh.state.fl.us/disease_ctrl/epi/htopics/flu/FluLabReportGuide.pdf</u>

County Influenza Activity

As of 11:00 a.m. August 8, 2012 a total of 30 (45%) 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 31 (ending August 4, 2012) as Reported by 11:00 a.m. August 8, 2012					
Activity Level	Week 30 Number of Counties	Week 31 Number of Counties	Week 31 Counties		
No Report	42	38	Baker, Brevard, Citrus, Columbia, Desoto, Dixie, Escambia, Franklin, Gilchrist, Glades, Hardee, Hendry, Hernando, Hillsborough, Holmes, Indian River, Jackson, Jefferson, Lafayette, Madison, Martin, Monroe, Nassau, Okaloosa, Okeechobee, Osceola, Pasco, Pinellas, Putnam, Santa Rosa, Sarasota, Sumter, Suwannee, Taylor, Volusia, Walton, Washington		
No Activity	13	14	Bay, Bradford, Calhoun, Charlotte, Flagler, Gadsden, Gulf, Hamilton, Highlands, Levy, Liberty, Polk, Union, Wakulla		
Mild	13	16	Alachua, Broward, Clay, Collier, Dade, Duval, Lake, Lee, Leon, Manatee, Marion, Orange, Palm Beach, Seminole, St. Johns, St. Lucie		
Moderate	0	0	-		
Widespread	-	-	-		

Map 2: Weekly County Influenza Activity for Week 31 as Reported by 11:00 a.m. August 8, 2012

A total of 30 counties report influenza activity in week 31. Most reporting counties reported no or mild activity. No counties report moderate activity.

