# Florida FLU REVIEW 2016-17 Season

## Week 4: January 22-28, 2017

State influenza and influenza-like illness (ILI) activity:

**Summary** 

- Influenza season is here. Florida reported widespread activity to the Centers of Disease Control and Prevention (CDC) for the third week in a row.
- In week 4, influenza activity in Florida remained elevated overall. Increased influenza activity is expected for several weeks, with peak activity still ahead.
- Statewide, the percent of emergency department (ED) and urgent care center (UCC) visits for influenza-like illness (ILI) remained stable.
- Respiratory syncytial virus (RSV) activity in children <5 years old decreased, but remained above levels observed in the 2014-15 and 2013-14 seasons at this time (see page 12).
- In week 3, the preliminary estimated number of deaths due to pneumonia and influenza (P&I) increased and was similar to levels seen in previous seasons at this time.
- In week 4, no influenza-associated pediatric deaths were reported.
  - Three influenza-associated pediatric deaths have been reported so far this season in Florida. While rare, Florida receives reports of influenza-associated pediatric deaths each season.
  - Annual vaccination remains the best way to protect children against influenza infection. It is not too late to vaccinate children for the 2016-17 influenza season. If you have not gotten vaccinated yet, you should get vaccinated now.
- Fifteen counties reported moderate influenza activity, 49 counties reported mild influenza activity, and three counties reported no influenza activity.
- Fifteen influenza or ILI outbreaks were reported, with the majority occurring in facilities serving adults aged ≥65 years old. A total of 51 outbreaks of influenza or ILI have been reported so far this season.
- Since the start of the 2016-17 influenza season, the most common influenza subtype detected at the Bureau of Public Health Laboratories (BPHL) statewide has been influenza A (H3).

#### National influenza activity:

- In recent weeks, influenza and ILI activity increased nationally. In week 3, levels were above the national baseline for the sixth week in a row. The majority of states, including Florida, reported widespread influenza activity.
- Some states reported dramatic increases in hospitalizations for pneumonia and influenza infection in recent weeks, culminating in levels above those observed in the last 10 years. Adults ≥65 years old have been disproportionately impacted by these alarming activity levels. Florida has not observed these activity levels yet and is monitoring activity levels closely.
- CDC recommends annual vaccination for everyone ≥6 months old. People who have not been vaccinated against influenza should get vaccinated as soon as possible.
- In recent weeks, influenza A (H3) has been the most common subtype reported to CDC by public health laboratories across the nation.
  - Seasons in which influenza A (H3) predominates have been associated with more severe illness, particularly in young children and adults ≥65 years old.
- There is increased risk for highly pathogenic avian influenza (HPAI) H5 virus identification in birds during the fall and winter migratory season. HPAI H5 has not been identified in Florida birds and would be expected to be seen in more northerly states first, but identifications are possible. To date, only two wild ducks have tested positive for HPAI H5 since August 2016; one was identified in Alaska in August and the second was identified in Montana. No human HPAI infections have been identified in Florida or other states.
  - To learn more about HPAI, please visit: www.floridahealth.gov/novelflu.

### Weekly State Influenza Activity



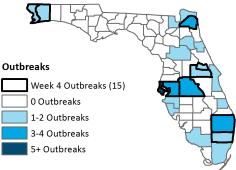
For more information see

page 2 🕨

### **Predominately Circulating Strain**



### Influenza and ILI Outbreaks Reported as of 1/28/2017



For more information see page 5

## County Influenza Activity

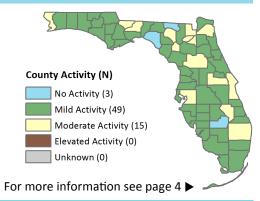


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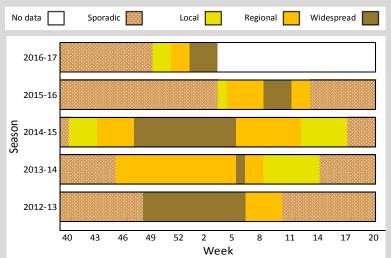
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### Weekly State Influenza Activity Reporting

Below is the state influenza activity level reported to CDC each week since the 2012-13 influenza season. Florida reported widespread influenza activity for week 4.



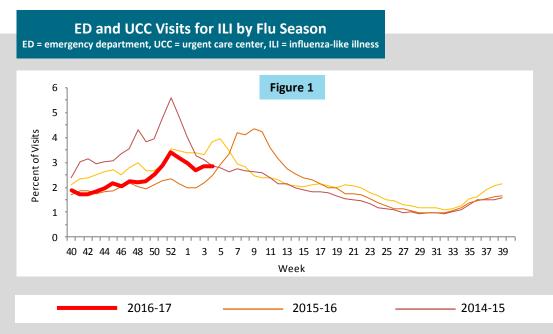
Influenza activity in Florida can vary widely from season to season. This unpredictability underscores the importance of influenza surveillance in Florida.

#### Influenza surveillance goals:

- Influenza surveillance is conducted to detect changes in the influenza virus. These data are used to help determine the annual national vaccine composition and to prepare for potential epidemics or pandemics.
- Surveillance is also conducted to identify unusually severe presentations of influenza infection, detect outbreaks, and determine seasonal influenza trends in order to guide influenza prevention, particularly in high-risk populations like children, adults ≥65 years old, and pregnant women.
- See the back page of this report for more information on influenza surveillance systems used in Florida: page 14 🕨

## **Statewide ILI Visits**

Influenza-like illness (ILI) is defined as a fever ≥100°F AND sore throat and/or cough in the absence of another known cause.



**Figure 1** shows the percent of visits for ILI from ED and UCC chief complaint data for ESSENCE-FL participating facilities (n=285), week 40, 2013 to week 4, 2017.

In week 4, the percent of visits to EDs and UCCs for ILI remained the same and was similar to levels seen in previous seasons at this time.

2013-14

## Statewide ILI Outpatient Visits and P&I Deaths

Page 3

#### 2016-17

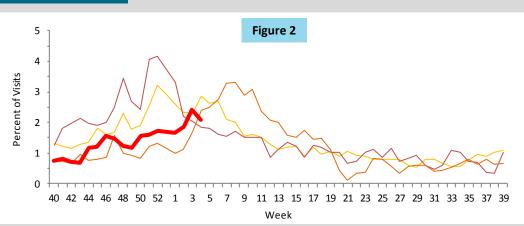
2015-16

2013-14

### Visits for ILI to Outpatient Providers by Flu Season ILI = influenza-like illness

Figure 2 shows the percent of visits for ILI reported by ILINet outpatient providers statewide (n=47), week 40, 2013 to week 4, 2017.

In week 4, the percent of visits for ILI reported by ILINet outpatient providers decreased and was similar to levels seen in previous seasons at this time.



2014-15

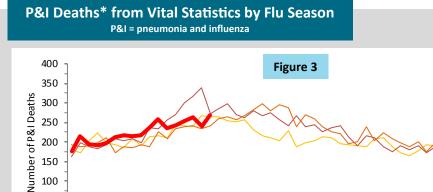


Figure 3 shows P&I deaths\* for all Florida counties from the Bureau of Vital Statistics, as reported into ESSENCE-FL, week 40, 2013 to week 3, 2017.

As of week 3 (ending January 21, 2017), 3,576 P&I deaths have been reported in the 2016-17 influenza season.

The preliminary number of P&I deaths increased and was similar to levels seen in previous seasons at this time.

#### P&I Deaths\*, Multi-Year Regression Model P&I = pneumonia and influenza

Figure 4 shows the number of preliminary estimated P&I deaths\* for all Florida counties, the number of deaths predicted using a multi-year regression model, and the upper bound of the 95% confidence interval for this prediction.

40 42 44 46 48 50 52 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39

Week

For week 3 (ending January 21, 2017), 268 preliminary estimated P&I deaths were reported.

200

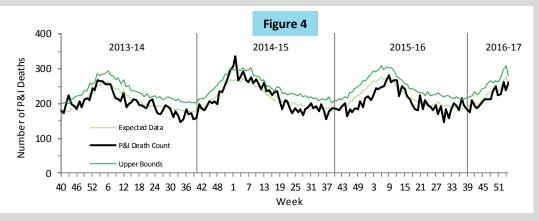
150

100

50

0

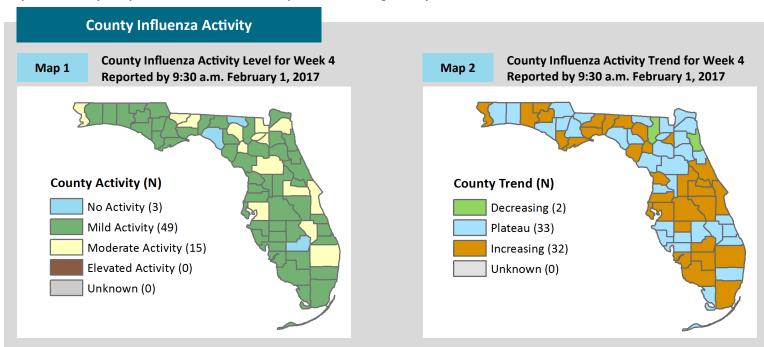
The upper bound of the 95% confidence interval for prediction is 288 deaths, with no excess deaths.



\* Current season P&I death counts are preliminary estimates, and may change as more data are received. The most recent data available are displayed here. Vital statistics death records received in ESSENCE-FL are considered to be complete through week 3, 2017.

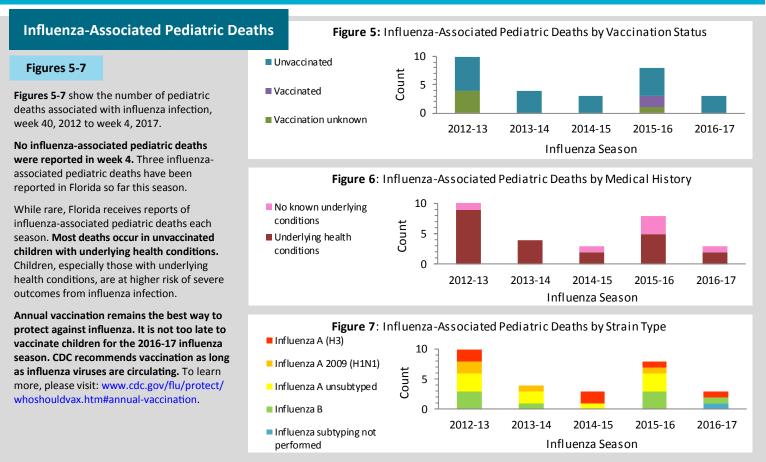
## County Influenza and ILI Activity Maps

County influenza activity data are reported by county health departments through EpiGateway on a weekly basis. Information is used to determine county activity and includes laboratory results, outbreak reports, and ILI activity. The figures below reflect a county health department's assessment of influenza activity within their county. For week 4, 32 counties reported increasing activity, 33 counties reported activity at a plateau, and two counties reported decreasing activity.



As of 9:30 a.m. February 1, 2017, a total of 67 (100%) counties reported their weekly level of influenza activity. Please note that data reported after the deadline Tuesday at 5 p.m. are recorded but may not be included in the activity maps for this week.

## Influenza-Associated Pediatric Deaths



## ILI Activity and Outbreaks by Setting

### Reported Influenza and ILI Outbreaks ILI = influenza-like illness

Map 3 shows influenza and ILI outbreaks by county for week 40, 2016 through week 4, 2017.

In week 4, 15 outbreaks were reported into EpiCom or Merlin: 10 influenza and five of currently unknown etiology. Ten outbreaks occurred in facilities serving adults ≥65 years old, such as nursing homes and long-term care facilities. Two outbreaks occurred in facilities serving children and three outbreaks occurred in correctional facilities. Fifty-one outbreaks of influenza or ILI have been reported into EpiCom or Merlin so far this season.

In previous seasons, influenza and ILI outbreaks were reported in facilities serving children, such as schools and day cares, ahead of facilities serving adults ≥65 years old. Outbreaks reported in facilities serving children have historically made up 26.5%-41.7% of the total number of outbreaks reported at this point in the influenza season. As of week 4, five (9.8%) of the 51 outbreaks reported thus far this season occurred in facilities serving children.

For more information on influenza and ILI outbreaks reported in week 4, see page 6.

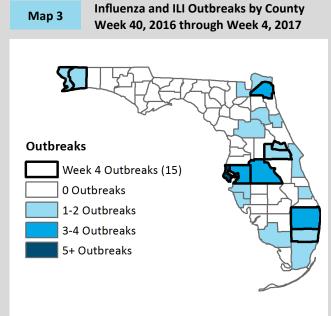
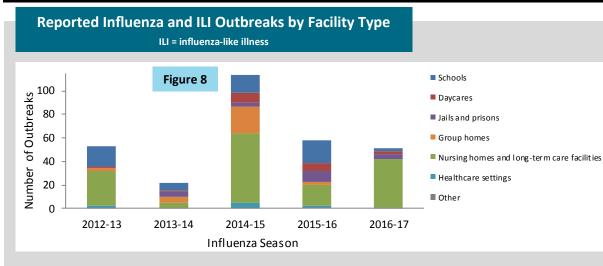


Table 1	L: Sum	mary of	Florida	Influenza	and ILI Ou	utbreaks	by Setti	ing, Week	40, 2016 th	rough Week 4,	2017
Setting	Total	А (НЗ)	A 2009 (H1N1)	A Unsubtyped	A & B Unsubtyped	B Yamagata	B Victoria	B Unsubtyped	Influenza Unspecified	Other respiratory viruses	Currently unknown pathogen
Schools	2	-	-	1	-	-	-	-	-	-	1
Daycares	3	-	-	-	-	1	-	-	-	-	2
Jails & prisons	4	-	-	2	-	-	-	-	-	-	2
Mental health facilities	1	-	-	-	-	-	-	-	-	-	1
Nursing homes & long-term care facilities	41	4	-	19	-	1	-	2	2	2-RSV	11
Health care facilities	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-		-	-
Total	51	4	0	22	0	2	0	2	2	2	17



**Figure 8** shows the distribution of outbreaks by facility type and season.

In week 4, 15 outbreaks of influenza or ILI were reported. The majority occurred in facilities serving adults ≥65 years old.

Seasons in which influenza A (H3) predominates have been associated with more severe illness, particularly adults ≥65 years old. As such, it is expected that outbreaks will occur in long-term care facilities and nursing homes.

### **Reported Influenza and ILI Outbreaks**

ILI = influenza-like illness

#### In week 4, 15 outbreaks were reported into EpiCom or Merlin.

#### Palm Beach County:

- A long-term care facility reported four residents and four staff members with ILI. Four ill individuals were hospitalized as a result of their illness and one died. Three specimens collected for testing were positive for influenza A by rapid antigen testing. Vaccination status for the 2016-17 influenza season for ill individuals was unknown. Infection control measures were reviewed with facility leadership. This investigation is closed.
- A long-term care facility reported 16 residents with ILI. One resident was hospitalized as a result of the illness. One specimen was collected for testing at the hospital and was positive for influenza A by PCR. Three specimens were collected for testing at BPHL. Those results are pending. Of the 16 ill residents, three were vaccinated for the 2016-17 influenza season. Infection control measures were reviewed with facility leadership. This investigation closed.

#### Santa Rosa County:

• A prison reported eight inmates with ILI. Specimens collected by the facility were positive for influenza A by rapid antigen testing. No specimens were available for testing at BPHL. None of the ill inmates were known to be vaccinated for the 2016-17 influenza season. Infection control measures were reviewed with facility leadership. This investigation is closed.

#### **Orange County:**

• A long-term care facility reported 13 residents with ILI. Five residents were hospitalized as a result of their illness. Two specimens were collected for testing by the facility: one was positive for influenza A by rapid antigen testing and one was positive for influenza A (H3) by PCR. Both specimens were forwarded to BPHL for confirmatory testing. Both specimens were positive for influenza A (H3) by PCR at BPHL. Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

#### Hillsborough County:

- A long-term care facility reported 12 residents with ILI. Five residents were hospitalized as a result of their illness. Five specimens were collected from hospitalized residents. Four were positive for influenza A by PCR at the hospital. No specimens were available for testing at BPHL. The facility reported that 88.5% of all staff members were vaccinated for the 2016-17 influenza season. The facility estimated that 27.8% of all residents were vaccinated for the 2016-17 influenza season. Infection control measures were reviewed with facility leadership. This investigation is ongoing.
- A school reported 41 students with ILI. Specimens collected from 10 students were positive for influenza A by rapid antigen testing at local health care providers. Specimens collected from three students were positive for *Streptococcus* at local health care providers. No specimens were available for testing at BPHL. Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

#### **Broward County:**

• A rehabilitation and long-term care facility reported 13 residents and two staff members with ILI. Fifteen specimens collected for testing at the facility were positive for influenza A by rapid antigen testing. No specimens were available for testing at BPHL. The facility reported that 13.0% of staff members and 35.5% of residents were vaccinated for the 2016-17 influenza season. Infection control measures were reviewed with facility leadership. This investigation is closed.

#### **Pinellas County:**

- A nursing facility reported one resident and one staff member with ILI. One ill individual was hospitalized as a result of the illness. Two specimens collected for testing were positive for influenza. Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.
- A skilled nursing facility reported six residents and two staff members with ILI. Two specimens collected for testing were positive for influenza A. Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.
- A skilled nursing facility reported two residents with ILI. One resident was hospitalized as a result of his or her illness. Two specimens collected for testing were positive for influenza: one influenza A untyped and one influenza A (H3). Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.
- An elementary school reported five individuals with ILI. The etiology of this outbreak is currently unknown. Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

#### **Polk County:**

• A correctional facility reported 45 individuals with ILI. Two specimens were collected for testing at BPHL. Both specimens were positive for influenza A. Subtyping results are pending. Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

#### **Escambia County:**

• A correctional facility reported seven individuals with ILI. Three specimens collected for testing were negative for influenza by rapid antigen testing. Specimens were collected for testing at BPHL. Those results are pending. Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

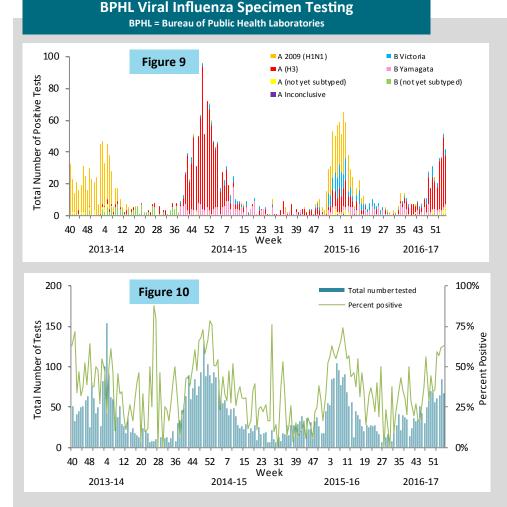
#### **Duval County:**

• An assisted living facility reported 28 individuals with ILI. Three specimens collected for testing at BPHL. Two were positive for influenza B by PCR. Subtyping results are pending. Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

#### Seminole County:

• A nursing facility reported three individuals with ILI. One specimen was collected for testing at BPHL. That result is pending. Vaccination status for the 2016-17 influenza season for ill individuals is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

## Laboratory Surveillance



Figures 9 and 10 use BPHL viral surveillance data.

**Figure 9** shows the number of influenzapositive specimens tested by subtype and lab event date.\*

### In recent weeks, the most common influenza subtype detected at BPHL statewide has been influenza A (H3). Seasons in which A (H3) viruses predominate have been associated with more severe illness in young children and adults ≥65 years old.

**Figure 10** shows the number of specimens tested by BPHL and the percent that were positive for influenza by lab event date\*.

In week 4, the number of specimens tested for influenza decreased and was similar to levels observed in previous seasons at this time. The percent of specimens testing positive for influenza increased slightly and was similar to levels observed in previous seasons at this time.

## Table 2: Bureau of Public Health Laboratories (BPHL) Viral Surveillance by Lab Event Date\*Reported by 10:00 a.m. February 1, 2017

Influenza Type	Current Week 4	Previous Week 3	Current 2016-17 Season
Total Specimens Tested	67	84	846
Influenza positive specimens (% of total specimen tested)	42 (62.7%)	52 (61.9%)	353 (41.7%)
Influenza A 2009 (H1N1) (% of influenza positives)	-	1 (1.9%)	6 (1.7%)
Influenza A (H3) (% of influenza positives)	31 (73.8%)	44 (84.6%)	260 (73.7%)
Influenza A not yet subtyped (% of influenza positives)	5 (11.9%)	2 (3.9%)	13 (3.7%)
Influenza A inconclusive** (% of influenza positives)	-	-	1 (0.3%)
Influenza B Yamagata (% of influenza positives)	1 (2.4%)	2 (3.9%)	36 (10.2%)
Influenza B Victoria (% of influenza positives)	4 (9.5%)	2 (3.9%)	33 (9.1%)
Influenza B not yet subtyped (% of influenza positives)	1 (2.4%)	1 (1.9%)	5 (1.4%)

\*"Lab event date" is defined as the earliest of the following dates associated with influenza testing at the laboratory: date specimen collected, date received by the laboratory, date reported or date inserted.

\*\*Influenza A inconclusive test results are due to technical difficulties including an insufficient sample for testing or internal sample control failure and occur occasionally in routine laboratory testing.

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: www.floridahealth.gov/diseases-and-conditions/influenza/\_documents/flulabreportguide.pdf

## **Regional ILI Visits**

2013-14

### ED and UCC Visits for ILI by Region

ED = emergency department, UCC = urgent care center, ILI = influenza-like illness

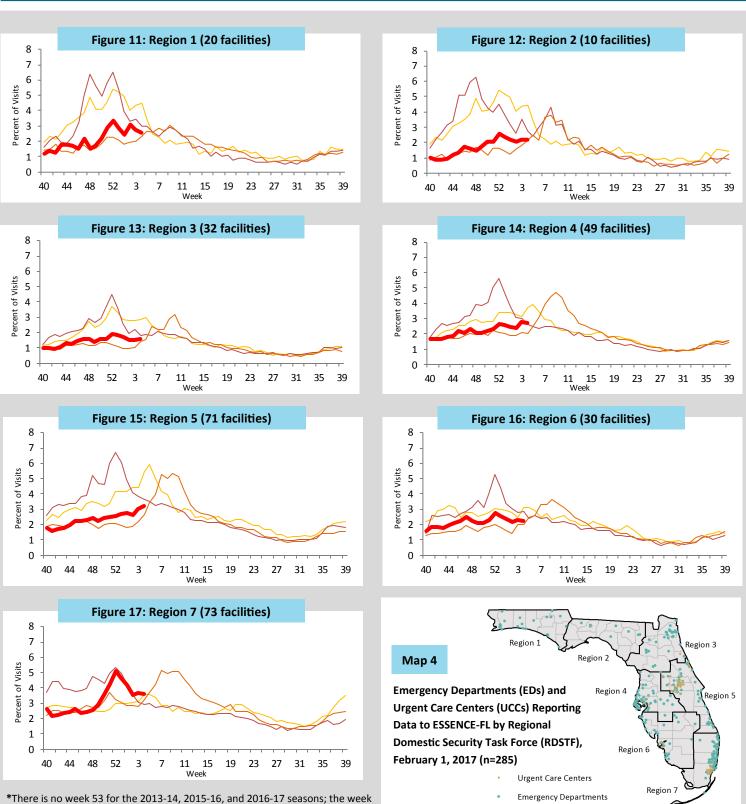
2016-17

**Figures 11-17** show the percent of visits for ILI from ED and UCC chief complaints for ESSENCE-FL participating facilities (n=285), by ESSENCE-FL Regional Domestic Security Task Force (RDSTF) regions (see map 4) from week 40, 2013 to week 4, 2017\*. In week 4, the percent of ED and UCC

2014-15

visits for ILI was similar to levels seen in previous seasons at this time in all regions. ILI activity increased in regions 2, 3, and 5. ILI activity decreased or remained the same in all other regions. ILI activity levels remained highest in region 7.

2015-16

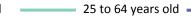


53 data point for those seasons is an average of weeks 52 and 1.

## Age Groups: ILI Visits and P&I Deaths

0 to 4 years old

5 to 24 years old

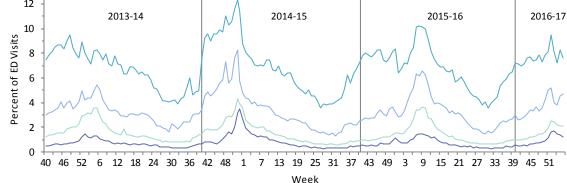


## Page 9

≥65 years old

ED and UCC Visits for ILI by Age Group ED = emergency department, UCC = urgent care center, ILI = influenza-like illness Figure 18 shows the percent of Figure 18 visits for ILI from ED and UCC 12 chief complaints by age group 2014-15 2015-16 2013-14 for ESSENCE-FL participating 10 facilities (n=285), week 40, 2013 to week 4, 2017. 8 In week 4, ED and UCC visits for 6 ILI increased the 5-24 age group 4

and decreased or remained the same in all other age groups. Levels were similar to those observed in previous seasons at this time in all age groups.



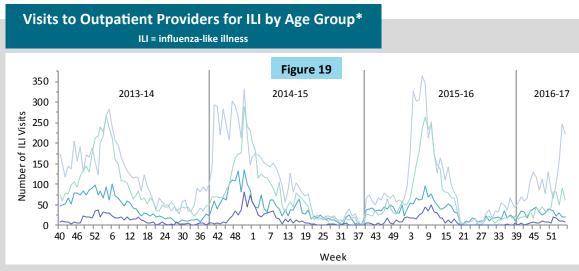
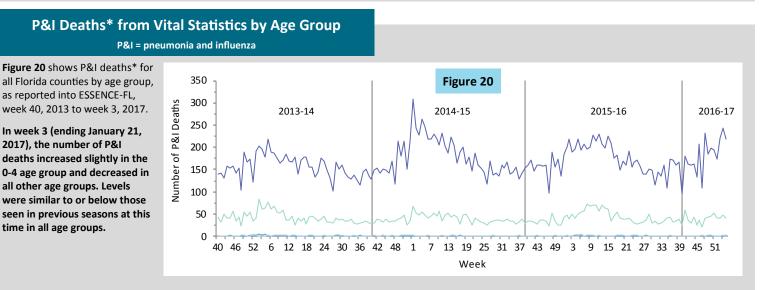


Figure 19 shows the number of visits for ILI reported by ILINet outpatient providers statewide (n=47) by age group, week 40, 2013 to week 4, 2017.

In week 4, the number of visits for ILI remained the same in the 0-4 age group and decreased in all other age groups. Levels were similar to or below those seen in previous seasons at this time in all age groups.

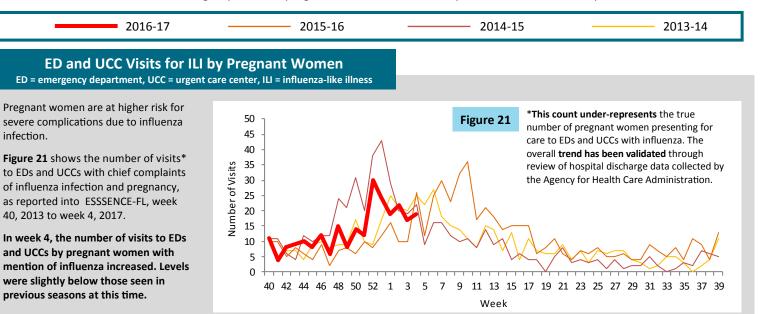
\*Data presented here are counts, not proportions. This is because age group denominator data is not available through ILINet.



\*Current season P&I death numbers are preliminary estimates, and may change as more data are received. The most recent data available are displayed here. Vital statistics death records received in ESSENCE-FL are currently considered to be complete through week 3, 2017.

## **At-Risk Populations: ILI Visits**

ESSENCE-FL collects data daily from 285 EDs and UCCs. 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," "cough," and/or "sore throat." The Florida Department of Health uses ED and UCC chief complaint data to monitor influenza and ILI activity in a timely manner in groups at higher risk of severe health outcomes (such as hospitalization and death) from influenza infection. These at-risk groups include pregnant women, children ≤18 years old, and adults ≥65 years old.



#### ED and UCC Visits for ILI by Children ≤18 Years Old ED = emergency department, UCC = urgent care center, ILI = influenza-like illness

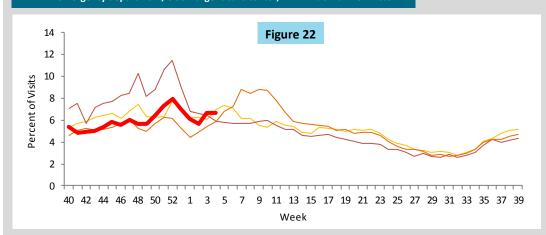


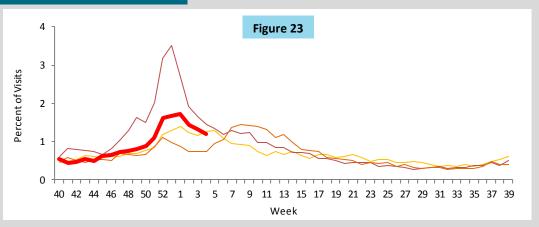
Figure 22 shows the percent of ILI visits among all ED and UCC visits for children ≤18 years old, as reported into ESSSENCE-FL, week 40, 2013 to week 4, 2017.

In week 4, the percent of ILI visits among all ED and UCC visits for children ≤18 years old decreased slightly and was similar to levels seen in previous seasons at this time.

ED and UCC Visits for ILI by Adults ≥65 Years Old ED = emergency department, UCC = urgent care center, ILI = influenza-like illness

Figure 23 shows the percent of ILI visits among all ED and UCC visits for adults ≥65 years old, as reported into ESSSENCE-FL, week 40, 2013 to week 4, 2017.

In week 4, the percent of ILI visits among all ED and UCC visits for adults ≥65 years old decreased, but remained similar to levels seen in previous seasons at this time. Seasons where influenza A (H3) predominates have been associated with more severe illness, particularly in adults ≥65 years old.



## ILI Activity by Population and Setting Type

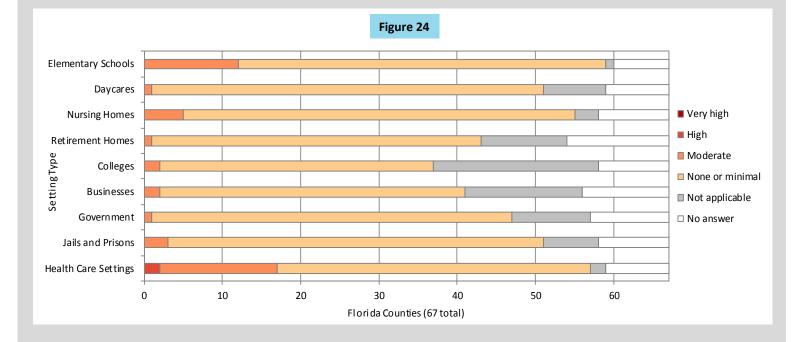
#### ILI Activity by Setting Type ILI = influenza-like illness

County health departments are asked to evaluate influenza activity in certain settings within their county. The assessment scale for activity ranges from no or minimal activity to very high activity.

Figure 24 shows the results of the influenza activity assessment for week 4, 2017.

Counties that reported "not applicable" for the listed settings are excluded from the denominator in the calculations below.

- ILI Activity Levels:
- No or very minimal activity
- Moderate activity
- High activity
- Very high activity



### Settings for Children <18 Years Old

**In elementary schools**, 47 counties (71.2%) reported no or minimal influenza or ILI activity. Twelve counties (18.2%) reported moderate influenza or ILI activity.

In daycare settings, 50 counties (84.7%) reported no or minimal influenza or ILI activity. One county (1.7%) reported moderate influenza or ILI activity.

### Settings for Adults >65 Years Old

In nursing homes, 50 counties (84.7%) reported no or minimal influenza or ILI activity. Five counties (7.8%) reported moderate influenza or ILI activity.

In retirement homes, 42 counties (75.0%) reported no or minimal influenza or ILI activity. One county (1.8%) reported moderate influenza or ILI activity.

### Settings for Adults 18 to 65 Years Old

**In colleges**, 35 of 46 counties (76.1%) reported no or minimal influenza or ILI activity. Two counties (4.3%) reported moderate influenza or ILI activity.

**In businesses**, 39 counties (75.0%) reported no or minimal influenza or ILI activity. Two counties (3.8%) reported moderate influenza or ILI activity.

In government offices, 46 counties (80.7%) reported no or minimal influenza or ILI activity. One county (1.8%) reported moderate influenza or ILI activity.

#### **Other Unique Settings**

In jails and prisons, 48 counties (80.0%) reported no or minimal influenza or ILI activity. Three counties (5.0%) reported moderate influenza or ILI activity.

In health care settings, including rehabilitation facilities and mental health facilities, 40 counties (61.5%) reported no or minimal influenza or ILI activity. Fifteen counties (23.1%) reported moderate influenza or ILI activity. Two counties (3.1%) reported high influenza or ILI activity.

## **Respiratory Syncytial Virus Surveillance**

### **RSV Activity Summary and Seasonality**

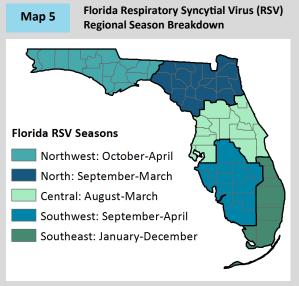
RSV = respiratory syncytial virus

#### RSV activity:

- In week 4, the percent of children <5 years old diagnosed with RSV at EDs and UCCs decreased, but remained above levels observed in the 2014-15 and 2013-14 seasons. Currently, all regions are still considered to be in RSV season.
- The percent of specimens testing positive for RSV decreased and was below levels observed in previous seasons at this time.
- To learn more about RSV in Florida, please visit: http://www.floridahealth.gov/rsv.

#### **RSV Seasonality:**

- RSV activity in Florida typically peaks in November through January, though activity can vary dramatically by region. According to CDC, the start of RSV season is marked by the first two consecutive weeks during which the average percentage of specimens testing positive for RSV is ≥10%.
- Florida has established regular RSV seasons based on these thresholds.
- Florida's RSV season is longer than the rest of the nation and has distinct regional seasonality. For more information on RSV seasonality in Florida, see the American Academy of Pediatrics' 2015 Red Book.

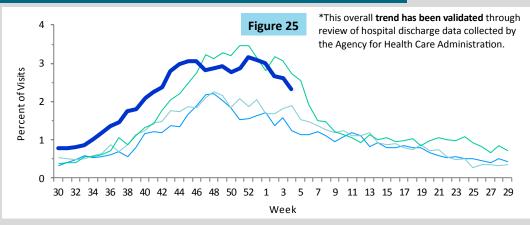


#### **RSV** surveillance goals:

- A statewide RSV surveillance system was implemented in Florida to support clinical decision-making for prophylaxis of premature infants. The determination of unique seasonal and geographic trends of RSV activity has important implications as it relates to prescribing patterns for initiating prophylaxis to children at high risk for RSV infection.
- See the back page of this report for more information on RSV surveillance systems used in Florida: page 14 🕨

## ED and UCC Visits for RSV by Children <5 Years Old

ED = emergency department, UCC = urgent care center, RSV = respiratory syncytial virus



**Figure 25** shows the percent of visits to EDs and UCCs with discharge diagnoses that include RSV or RSV-associated illness, as reported by participating ESSSENCE-FL facilities (n=285), week 30, 2013 to week 4, 2017.

In week 4, the percent of children presenting to participating EDs and UCCs for care with RSV decreased. Levels remained above those seen in the 2014-15 and 2013-14 seasons.

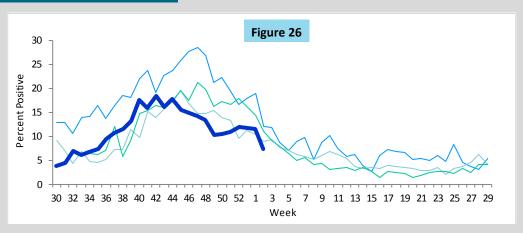


Laboratory RSV Surveillance RSV = respiratory syncytial virus

**Figure 26** shows the percent of laboratory results testing positive for RSV, as reported by hospital laboratories (n=11), week 40, 2013 to week 4, 2017.

In week 4, the percent of specimens testing positive for RSV decreased and was below levels observed in previous seasons at this time.





### **Other Respiratory Virus Surveillance**

#### Statewide activity:

- In week 4, the percent of specimens testing positive for influenza decreased but remained above levels observed in previous seasons at this time. The percent of specimens testing positive for influenza was higher than other respiratory viruses under surveillance.
- The percent of specimens testing positive for RSV decreased and was below levels observed in previous seasons at this time.
- The percent of specimens testing positive for rhinovirus decreased and was below levels observed in previous seasons at this time.

#### Enterovirus D68 (EV-D68) activity:

- In week 4, no new cases of EV-D68 were identified in Florida.
- Eight cases of EV-D68 have been identified in Florida since February 2016. These eight cases were identified in different regions of the state and represent the full spectrum of disease. These are the first identifications of EV-D68 in the United States since the fall of 2014.
- Six of these cases were identified as a result of Florida's participation in the Acute Respiratory Infection Epidemiology and Surveillance Program (ARIES).
- To learn more about EV-D68, please visit: http://www.floridahealth.gov/diseases-and-conditions/d68.

#### Outbreaks:

• In week 4, no outbreaks of RSV, parainfluenza, adenovirus, human metapneumovirus (MPV), rhinovirus, enterovirus, or coronavirus were reported.

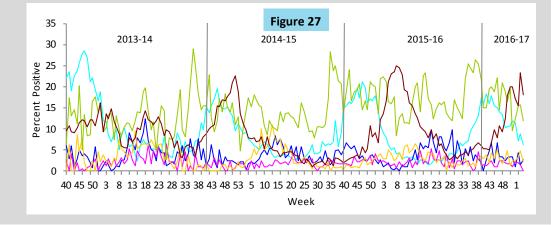
## Laboratory Viral Respiratory Surveillance

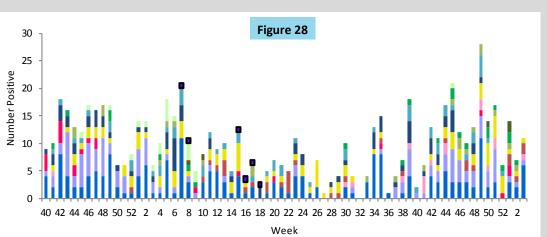
Non-Influenza ARIES Laboratory Outpatient Surveillance\* ARIES = Acute Respiratory Infection Epidemiology and Surveillance Program

Figure 27 shows the percent of laboratory results testing positive for eight common respiratory viruses, as reported by hospital laboratories (n=11), week 40, 2013 to week 4, 2017.

In recent weeks, the percent of specimens testing positive for influenza decreased but remained higher than other respiratory viruses under surveillance.







**Figure 28** shows the number of specimens testing positive for 12 common respiratory viruses, as reported by BPHL and ARIES outpatient providers statewide (n=6), week 40, 2015 to week 3, 2017.

In week 3 (ending January 21, 2017), specimens submitted by ARIES providers tested positive for rhinovirus, RSV, parainfluenza 2, parainfluenza 3, and adenovirus.



\*Data presented here are counts, not proportions. The most recent data available are displayed here. ARIES laboratory data are currently considered to be complete through week 3, 2017. Laboratory results for specimens that have not yet been tested in full will be included in future reports.