2016-17 Season

Summary

Week 3: January 15-21, 2017

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

- Influenza season is here. Florida reported widespread activity to the Centers of Disease Control and Prevention (CDC) for the second week in a row.
- In week 3, 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) increased. The percent of ED and UCC visits for ILI among children <18
 increased and was above levels observed in previous seasons at this time. The percent of ED and
 UCC visits for ILI among adults ≥65 years old decreased, but remained similar to peak levels
 observed in the 2014-13 and 2015-16 influenza seasons.
- Respiratory syncytial virus (RSV) activity in children <5 years old decreased and was below levels
 observed in the 2015-16 season at this time. Levels remain above those observed in the 2014-15 and
 2013-14 seasons.
 - For more information on RSV activity in Florida, see page 11.
- In week 2, the preliminary estimated number of deaths due to pneumonia and influenza (P&I)
 decreased and was below levels seen in previous seasons at this time.
- In week 3, one influenza-associated pediatric death was reported. The child had underlying health conditions and no reported vaccination for the 2016-17 influenza season.
 - This is the third influenza-associated pediatric death 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.
- Ten counties reported moderate influenza activity, 48 counties reported mild influenza activity, and nine counties reported no influenza activity.
- Two outbreaks of influenza or ILI were reported: one ILI outbreak in a Marion County correctional
 facility and one influenza outbreak in a St. Lucie County long-term care facility.
- 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 2, levels were above the
 national baseline for the fourth 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 just 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

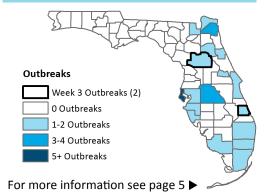
Widespread

For more information see page 2 ▶

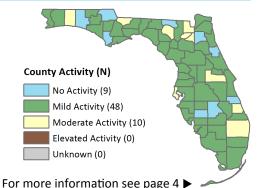
Predominately Circulating Strain



Influenza and ILI Outbreaks Reported as of 1/21/2017



County Influenza Activity



or more important on occ page 1,

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Posted January 25, 2017 on the Bureau of Epidemiology (BOE) website: www.floridahealth.gov/floridaflu Produced by the BOE, Florida Department of Health



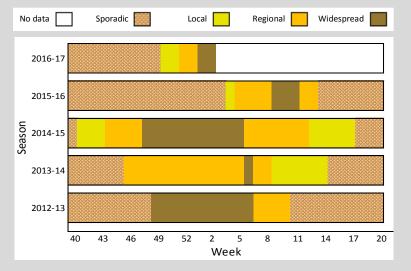
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Weekly State Influenza Activity Reporting

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 3.



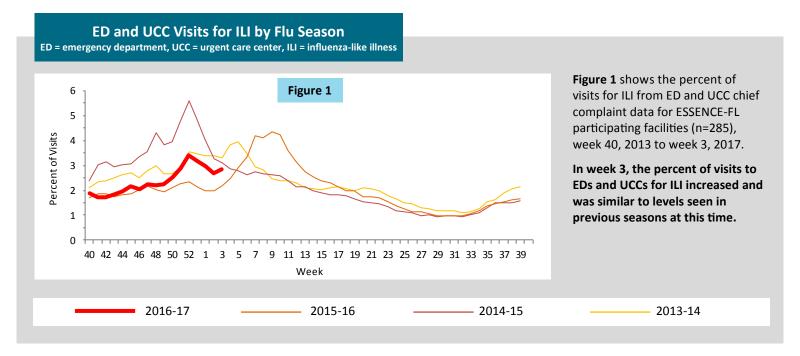
Influenza activity in Florida can vary widely from season to season. This unpredictability underscores the importance of influenza surveillance in Florida.

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 last page of this report for more information on influenza surveillance systems used in Florida: Page 13

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.



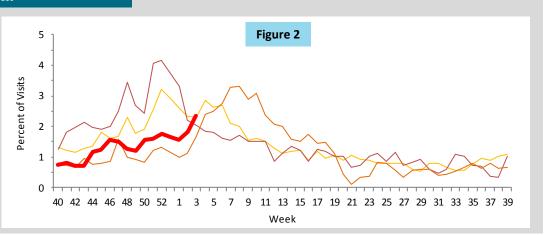
2016-17 ——— 2015-16 ——— 2014-15 ——— 2013-14

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=46), week 40, 2013 to week 3, 2017.

In week 3, the percent of visits for ILI reported by ILINet outpatient providers increased sharply and was slightly above levels seen in previous seasons at this time.



P&I Deaths* from Vital Statistics by Flu Season

P&I = pneumonia and influenza

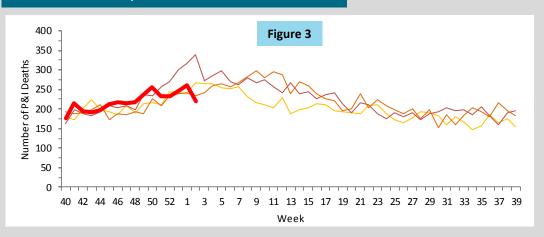


Figure 3 shows P&I deaths* for all Florida counties from the Bureau of Vital Statistics, as reported into ESSENCE-FL, week 40, 2013 to week 2, 2017.

As of week 2 (ending January 14, 2017), 3,274 P&I deaths have been reported in the 2016-17 influenza season.

The preliminary number of P&I deaths decreased and was below levels seen in previous seasons at this time.

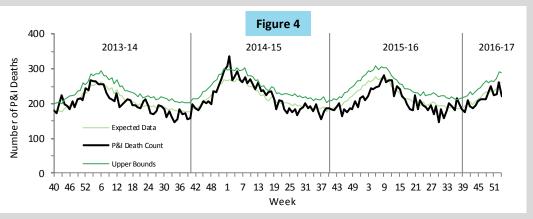
P&I Deaths*, Multi-Year Regression Model

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.

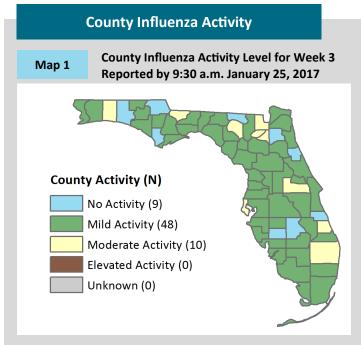
For week 2 (ending January 14, 2017), 222 preliminary estimated P&I deaths were reported.

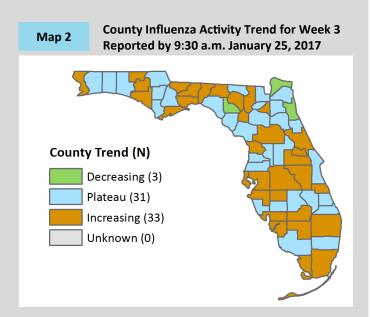
The upper bound of the 95% confidence interval for prediction is 289 deaths, with no excess deaths.



^{*} 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 2, 2017.

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 3, 33 counties reported increasing activity, 31 counties reported activity at a plateau, and three counties reported decreasing activity.





2013-14

2014-15

Influenza Season

2015-16

2016-17

2012-13

As of 9:30 a.m. January 25, 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

more, please visit: www.cdc.gov/flu/protect/

whoshouldvax.htm#annual-vaccination.

Influenza-Associated Pediatric Deaths Figure 5: Influenza-Associated Pediatric Deaths by Vaccination Status Unvaccinated Figures 5-7 Vaccinated Figures 5-7 show the number of pediatric deaths associated with influenza infection, ■ Vaccination unknown week 40, 2012 to week 3, 2017. 2012-13 2013-14 2014-15 2015-16 2016-17 One influenza-associated pediatric death was Influenza Season reported in week 3. The child had underlying health conditions and had no reported Figure 6: Influenza-Associated Pediatric Deaths by Medical History vaccination for the 2016-17 influenza season. This is the third influenza-associated pediatric No known underlying death reported so far this season in Florida. conditions ■ Underlying health While rare, Florida receives reports of influenza-associated pediatric deaths each conditions season. Most deaths occur in unvaccinated 2013-14 2015-16 children with underlying health conditions. 2012-13 2014-15 2016-17 Children, especially those with underlying Influenza Season health conditions, are at higher risk of severe outcomes from influenza infection. Figure 7: Influenza-Associated Pediatric Deaths by Strain Type Influenza A (H3) Annual vaccination remains the best way to protect against influenza. It is not too late to Influenza A 2009 (H1N1) vaccinate children for the 2016-17 influenza season. CDC recommends vaccination as long Influenza A unsubtyped as influenza viruses are circulating. To learn Influenza B

Influenza subtyping not

performed

Page 5

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 3, 2017. In week 3, two outbreaks were reported into EpiCom or Merlin: one influenza A and one ILI. Thirty-six outbreaks of influenza or ILI have been reported into EpiCom or Merlin so far this season.

Marion County:

A correctional facility reported 14 inmates with ILI. Specimens were requested for testing at BPHL. The etiology of this outbreak is currently unknown. Vaccination status for ill inmates for the 2016-17 influenza season is unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

St. Lucie County:

A long-term care facility reported 19 residents and 16 staff members with ILI. Six ill individuals were positive for influenza A by rapid antigen testing. Specimens were requested for testing at BPHL. The facility reported that 44.2% of all residents received the 2016-17 influenza vaccine. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

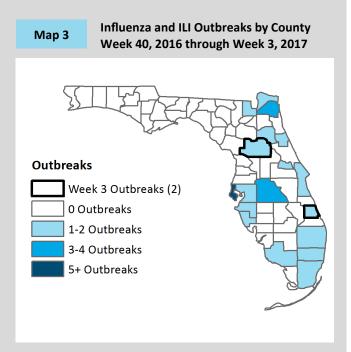
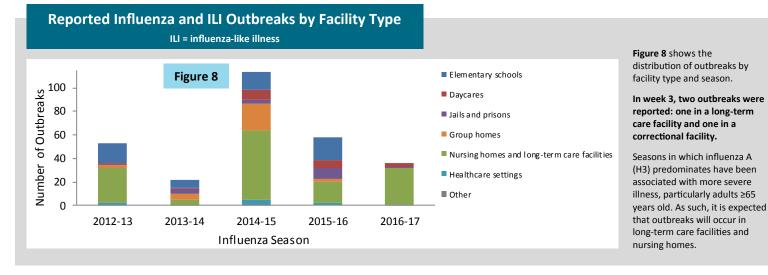
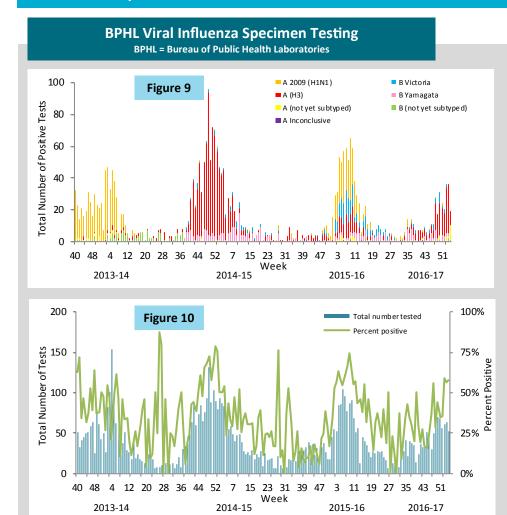


Table 1: Summary of Florida Influenza and ILI Outbreaks by Setting, Week 40 through Week 3, 2017

Setting	Total	A (H3)	A 2009 (H1N1)	A Unsubtyped	A & B Unsubtyped	B Yamagata	B Victoria	B Unsubtyped	Influenza Unspecified	Other respiratory viruses	Currently unknown pathogen
Schools	-	-	-	-	-	-	-	-	-	-	-
Daycares	3	-	-	-	-	1	-	-	-	-	2
Jails & prisons	1	-	-	-	-	-	-	-	-	-	1
Mental health facilities	1	-	-	-	-	-	-	-	-	-	1
Nursing homes & long-term care facilities	31	2	-	14	-	1	-	1	1	2-RSV	10
Health care facilities	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	=	-	-		-	-
Total	36	2	0	14	0	2	0	1	1	2	14





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 3, 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 and was slightly above 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. January 25, 2017

Influenza Type	Current Week 3	Previous Week 2	Current 2016-17 Season
Total Specimens Tested	52	64	746
Influenza positive specimens (% of total specimen tested)	30 (57.7%)	36 (56.3%)	288 (38.6%)
Influenza A 2009 (H1N1) (% of influenza positives)	-	-	5 (1.7%)
Influenza A (H3) (% of influenza positives)	13 (43.3%)	31 (86.1%)	195 (67.7%)
Influenza A not yet subtyped (% of influenza positives)	14 (46.7%)	1 (2.8%)	22 (7.6%)
Influenza A inconclusive** (% of influenza positives)	-	-	1 (0.3%)
Influenza B Yamagata (% of influenza positives)	-	2 (5.6%)	32 (11.1%)
Influenza B Victoria (% of influenza positives)	1 (3.3%)	-	26 (9.0%)
Influenza B not yet subtyped (% of influenza positives)	2 (6.7%)	2 (5.6%)	7 (2.4%)

^{*&}quot;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.

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

^{**}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.

ED and UCC Visits for ILI by Region

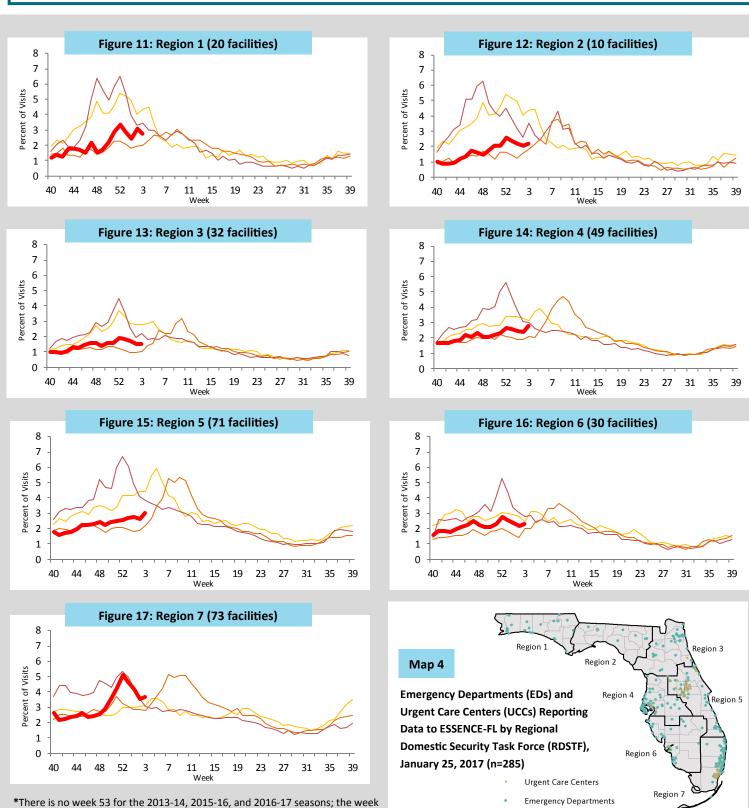
ED = emergency department, UCC = urgent care center, ILI = influenza-like illness

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

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 3, 2017*. In week 3, the percent of ED and UCC

visits for ILI was above levels seen in previous seasons in region 7 and similar to levels observed in previous seasons in all other regions at this time. In week 3, ILI activity decreased in region 1 and increased in all other regions. Activity levels remained highest in region 7.



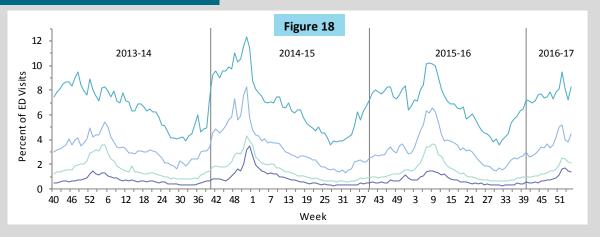


ED and UCC Visits for ILI by Age Group

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

Figure 18 shows the percent of visits for ILI from ED and UCC chief complaints by age group for ESSENCE-FL participating facilities (n=285), week 40, 2013 to week 3, 2017.

In week 3, ED and UCC visits for ILI increased in the 0-4 and 5-24 age groups and decreased in the 25-64 and ≥65 age groups. Levels were above those seen in previous seasons at this time in the 0-4 and 5-24 age groups. Levels were similar to those seen in previous seasons at this time in the 25-64 age group.



Visits to Outpatient Providers for ILI by Age Group*

ILI = influenza-like illness

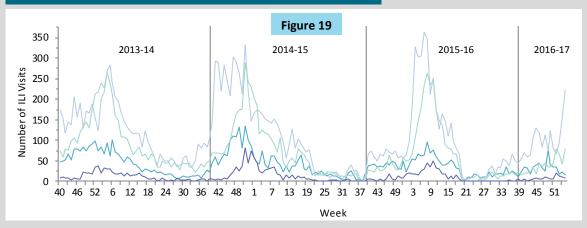


Figure 19 shows the number of visits for ILI reported by ILINet outpatient providers statewide (n=46) by age group, week 40, 2013 to week 3, 2017.

In week 3, the number of visits for ILI increased in the 5-24 and 25-64 age groups and decreased in the 0-4 and ≥65 age groups. Levels are similar to or below those observed in previous seasons in all age groups at this time.

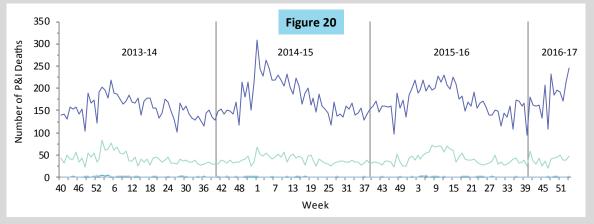
*Data presented here are counts, not proportions. This is because age group denominator data is not available through ILINet.

P&I Deaths* from Vital Statistics by Age Group

P&I = pneumonia and influenza

Figure 20 shows P&I deaths* for all Florida counties by age group, as reported into ESSENCE-FL, week 40, 2013 to week 2, 2017.

In week 2 (ending January 14, 2017), the number of P&I deaths increased in all age groups. Levels were above those seen in previous seasons at this time in the 5-24 and ≥65 age groups. Levels were similar to those seen in previous seasons at this time in the 0-4 and 25-64 age groups.



*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 2, 2017.

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.

2016-17 — 2015-16 — 2014-15 — 2013-14

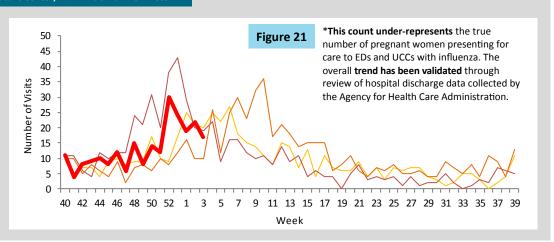
ED and UCC Visits for ILI by Pregnant Women

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

Pregnant women are at higher risk for severe complications due to influenza infection.

Figure 21 shows the number of visits* to EDs and UCCs with chief complaints of influenza infection and pregnancy, as reported into ESSSENCE-FL, week 40, 2013 to week 3, 2017.

In week 3, the number of visits to EDs and UCCs by pregnant women with mention of influenza decreased. Levels were similar to those seen in previous seasons at this time.



ED and UCC Visits for ILI by Children ≤18 Years Old

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

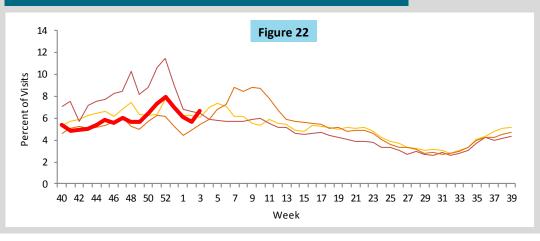


Figure 22 shows the percent of ILI visits among all ED and UCC visits for children ≤18 years old, as reported into ESSSENCE-FL, week 40, 2013 to week 3, 2017

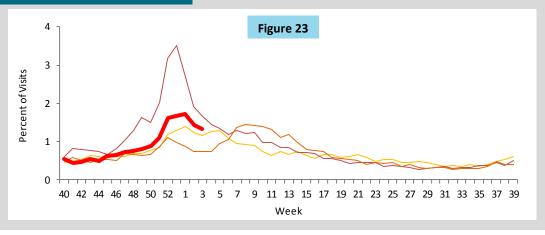
In week 3, the percent of ILI visits among all ED and UCC visits for children ≤18 years old increased and was above levels seen in previous seasons at this time.

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 3, 2017.

In week 3, the percent of ILI visits among all ED and UCC visits for adults ≥65 years old decreased, but remained similar to peak levels observed in the 2015-16 and 2013-14 seasons. 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

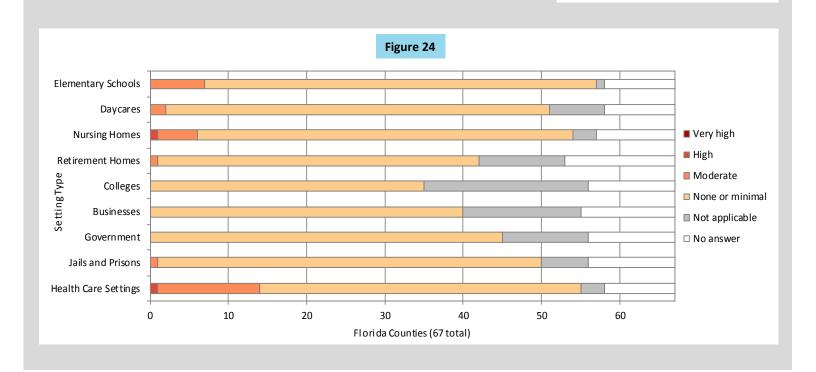
County health departments are asked to evaluate influenza activity in certain settings within their county. The assessment scale for activity ranges from no or minimal activity to very high activity.

Figure 24 shows the results of the influenza activity assessment for week 3, 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, 50 counties (75.8%) reported no or minimal influenza or ILI activity. Seven counties (10.6%) reported moderate influenza or ILI activity.

In daycare settings, 49 counties (81.7%) reported no or minimal influenza or ILI activity. Two counties (3.3%) reported moderate influenza or ILI activity.

Settings for Adults >65 Years Old

In nursing homes, 48 counties (75.0%) reported no or minimal influenza or ILI activity. Five counties (7.8%) reported moderate influenza or ILI activity. One county (1.6%) reported high influenza or ILI activity.

In retirement homes, 41 counties (73.2%) 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.

In businesses, 40 counties (76.9%) reported no or minimal influenza or ILI activity.

In government offices, 45 counties (80.4%) reported no or minimal influenza or ILI activity.

Other Unique Settings

In jails and prisons, 49 counties (80.3%) reported no or minimal influenza or ILI activity. One county (1.6%) reported moderate influenza or ILI activity.

In health care settings, including rehabilitation facilities and mental health facilities, 41 counties (64.1%) reported no or minimal influenza or ILI activity. Thirteen counties (20.3%) reported moderate influenza or ILI activity. One county (1.6%) reported high influenza or ILI activity.

RSV Activity Summary and Seasonality

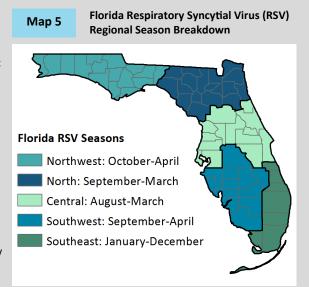
RSV = respiratory syncytial virus

RSV activity:

- In week 3, the percent of children <5 years old diagnosed with RSV at EDs and UCCs decreased. Levels remained above those observed in the 2014-15 and 2013-14 seasons at this time. Currently, all Florida regions are still in RSV season.
- The percent of specimens testing positive for RSV increased but was similar to levels observed in the previous seasons at this time.
- To learn more about RSV in Florida, please visit: http://www.floridahealth.gov/rsv.

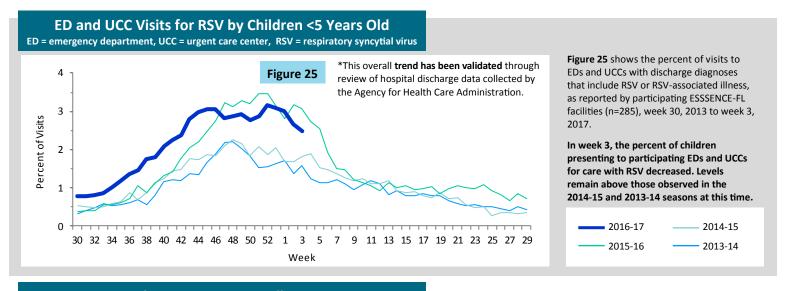
RSV Seasonality:

- 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 last page of this report for more information on RSV surveillance systems used in Florida: Page 13 >



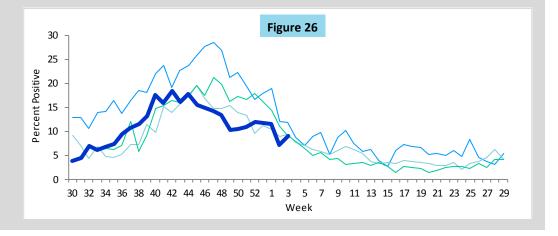
Laboratory RSV Surveillance

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 3, 2017.

In week 3, the percent of specimens testing positive for RSV increased and was similar to levels observed in previous seasons at this time.





Other Respiratory Virus Surveillance

Statewide activity:

- In week 3, the percent of specimens testing positive for influenza increased sharply and was 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 increased but remained similar to levels observed in previous seasons at this time.
- The percent of specimens testing positive for rhinovirus decreased and remained similar to levels observed in previous seasons at this time.

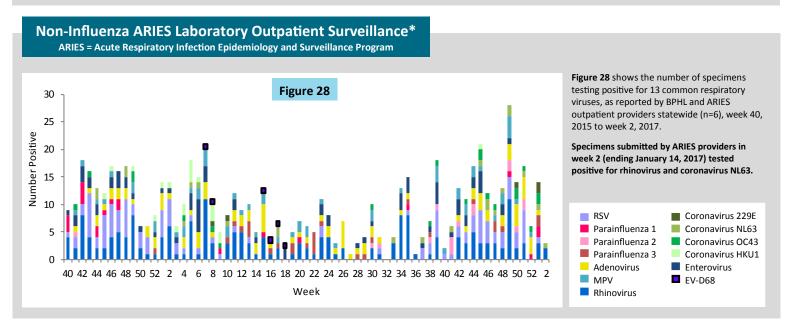
Enterovirus D68 (EV-D68) activity:

- In week 3, 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 3, no outbreaks of RSV, parainfluenza, human metapneumovirus (MPV), enterovirus, coronavirus, adenovirus, or rhinovirus were reported.

Laboratory Viral Respiratory Surveillance Figure 27 shows the percent of laboratory results testing positive for eight common Figure 27 35 respiratory viruses, as reported by hospital 2014-15 2013-14 2015-16 2016-17 30 laboratories (n=11), week 40, 2013 to week 3, 2017. 25 Percent Positive In recent weeks, the percent of specimens testing 20 positive for influenza increased and was higher than other respiratory viruses under surveillance. 15 RSV Parainfluenza 1-3 Adenovirus MPV 40 45 50 3 8 13 18 23 28 33 38 43 48 53 5 10 15 20 25 30 35 40 45 50 3 8 13 18 23 28 33 38 43 48 1 Rhinovirus Influenza



^{*}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 2, 2017. Laboratory results for specimens that have not yet been tested in full will be included in future reports.

Florida ILI Surveillance System Summary

Florida ILINet · Data source for figures 2 and 19

• ILINet is a nationwide surveillance system composed of sentinel providers, predominately outpatient health care providers. Florida has 88 sentinel providers enrolled in ILINet who submit weekly ILI and total visit counts, as well as submit ILI specimens to the Bureau of Public Health Laboratories (BPHL) for confirmatory testing.

ESSENCE-FL Syndromic Surveillance and Vital Statistics Portal · Data source for figures 1, 3-7, 11-18, 20-23, 25; map 4

- Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE-FL) measures trends in ILI visits from emergency departments (ED) and urgent care clinics (UCC) and influenza mortality by using death certificates from the Bureau of Vital Statistics. Participating EDs and UCCs (n=285) electronically transmit visit data into ESSENCE-FL daily or hourly.
- For statewide and regional data on influenza-like illness, visits are counted as ED or UCC visits to participating facilities that include influenza-like illness in patient chief complaints.
- For pneumonia and influenza (P&I) surveillance, death record literals are queried using a free-text query that searches for references to P&I on death certificates. Any mention of P&I in the death certificate literals, with certain exceptions, is counted as a P&I death.
- For respiratory syncytial virus (RSV) surveillance, visits are counted as ED or UCC visits to participating facilities for which RSV or RSVassociated illness is included in the discharge diagnosis. Death record literals are also queried using a free-text query that searches for
 references to RSV on death certificates for children <18 years old. Any mention of RSV in the death certificate literals, with certain
 exceptions, is counted as an RSV-associated pediatric death.

County Influenza Activity in EpiGateway · Data source for figures 19, 24, and maps 1 and 2

• County health department (CHD) epidemiologists report their county's influenza and ILI surveillance data weekly into the EpiGateway website. Influenza activity is classified as: no activity, mild, moderate, or elevated. Setting-specific influenza activity and influenza trend information is also reported. EpiGateway data provided by CHDs creates a county-by-county breakdown of influenza and ILI activity around the state.

Outbreak Reporting in EpiCom · Data source for figure 8, map 3, and table 1

- EpiCom tracks influenza and ILI outbreak investigations by county health departments (CHDs). Reports by CHDs include the type of respiratory disease causing the outbreak and settings where outbreaks are occurring. CHD epidemiologists report outbreaks of influenza and ILI into EpiCom, Florida's online communication setting.
- Outbreaks are defined as two or more cases of influenza or ILI in a specific setting.

Outbreak Reporting in Merlin · Data source for figure 8, map 3, and table 1

- Merlin tracks influenza and ILI outbreak investigations by CHDs. Reports by CHDs include the type of respiratory disease causing the
 outbreak and settings where outbreaks are occurring. CHD epidemiologists report outbreaks of influenza or ILI into Merlin, Florida's
 reportable disease surveillance system.
- Outbreaks are defined as two or more cases of influenza or ILI in a specific setting.

Bureau of Public Health Laboratories (BPHL) · Data source for figures 9, 10 and table 2

- BPHL performs confirmatory testing and subtyping on surveillance specimens from ILINet sentinel providers, outbreak investigations, patients with severe or unusual influenza presentations and medical examiners.
- 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 at www.floridahealth.gov/diseases-and-conditions/influenza/_documents/flulabreportguide.pdf.

Laboratory Viral Respiratory Surveillance · Data sources for figures 26-27

• The National Respiratory and Enteric Virus Surveillance System (NREVSS) and Electronic Laboratory Reporting (ELR) collect data from laboratories in Florida on a weekly basis and monitor temporal and geographic patterns of eight commonly circulating respiratory viruses. NREVSS data is collected by the Centers for Disease Control and Prevention (CDC) and electronic laboratory report (ELR) data is collected by the Florida Department of Health (DOH).

Acute Respiratory Infection Epidemiology and Surveillance (ARIES) Program · Data source for figure 28

Acute Respiratory Infection Epidemiology and Surveillance Program (ARIES) is a nationwide surveillance system composed of nine
participating jurisdictions. Florida has six sentinel providers enrolled in ARIES who submit weekly ILI and ARI (acute respiratory
infection) counts, as well as submit ARI and ILI specimens to the Bureau of Public Health Laboratories (BPHL) for testing.

Case-Based Influenza Surveillance

- Influenza-associated pediatric deaths (reported into Merlin, DOH's reportable disease surveillance system).
- Influenza due to novel or pandemic strains (reported into Merlin)
- Deaths in children with laboratory-confirmed influenza infection and patients with influenza infection due to novel or pandemic strains are reportable in Florida. For more information about reportable diseases please visit www.Floridahealth.gov/ diseasereporting.