



Summary

Week 12: March 20-26, 2016

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

- Florida reported “regional” activity to the Centers for Disease Control and Prevention (CDC) in week 12. This is down from “widespread” activity in recent weeks.
- **Preliminary data suggests that influenza activity this season has peaked, with peak activity occurring between weeks 7 and 11. This peak in activity has occurred later than in the past six seasons.**
- **Emergency department (ED) and urgent care center (UCC) visits for ILI decreased in six of seven regions in Florida, but remain elevated in two regions (4 and 7).**
- **The preliminary estimated number of deaths due to pneumonia and influenza is now slightly above levels seen in the last three seasons at this time.**
 - Deaths due to pneumonia and influenza tend to occur later in the season as at-risk populations develop complications from influenza infection.
- Eleven counties reported “increasing” activity in week 12; this is down from 16 counties in week 11. Forty-two counties reported activity at a “plateau,” and 14 counties reported “decreasing” activity.
- In week 12, 15 counties reported “moderate” activity, 47 counties reported “mild” activity, and five counties reported no activity.
- **In week 12, two influenza-associated pediatric deaths were reported in Sarasota County and Broward County. Both cases in were unvaccinated children with underlying health conditions.**
 - Six influenza-associated pediatric deaths have been reported so far this season. While rare, Florida receives reports of influenza-associated pediatric deaths each season. **Annual vaccination remains the best way to protect children against the flu.**
- In week 12, five outbreaks of influenza and three outbreaks of ILI were reported. Of the eight outbreaks, the majority occurred in elementary schools and long term care facilities, and occurred corresponding with peak flu activity weeks 7-11.
- **Influenza A 2009 (H1N1) has been the most commonly identified influenza subtype this season by the Bureau of Public Health Laboratories (BPHL).**

National influenza activity:

- Influenza activity decreased slightly, but remains elevated nationally. The majority of states are still reporting widespread influenza activity.
- **The CDC recommends that persons at high risk for developing complications from influenza infections (such as children and pregnant women) or very ill patients suspected of having influenza should receive prompt treatment with antiviral drugs, even prior to laboratory confirmation.**
- Influenza A 2009 (H1N1) is the predominately circulating strain.
- The vast majority of circulating flu viruses analyzed this season remain similar to the vaccine virus components for this season's flu vaccines. **If you have not yet been vaccinated this season, get vaccinated now. It's not too late!**
 - The CDC reported preliminary influenza vaccine effectiveness (VE) estimates for the 2015-16 seasonal influenza vaccine. **The 2015-16 flu vaccine is a good match for the currently circulating strains of influenza.**
 - To learn more, please visit: www.cdc.gov/flu/weekly/.
- Highly pathogenic avian influenza (HPAI) H5 viruses have been identified in U.S. backyard and commercial flocks of birds during the spring and summer of 2015. Influenza (HPAI) H5 has not been identified in Florida birds, but identifications are anticipated. No human HPAI infections have been identified in Florida or the rest of the nation.
 - To learn more, please visit: www.floridahealth.gov/novelflu.

Weekly State Influenza Activity

Regional

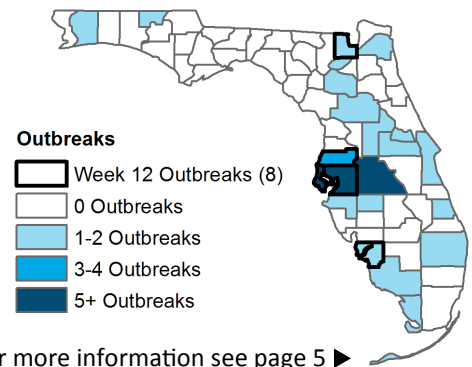
For more information
see page 2 ►

Predominately Circulating Strain

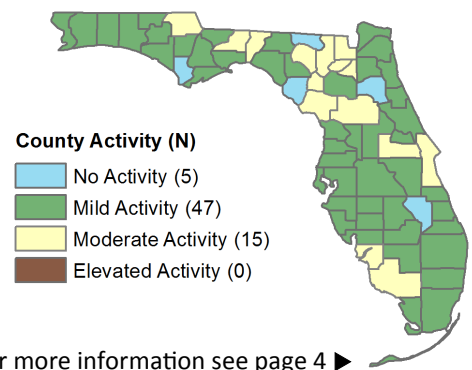
A 2009 (H1N1)

For more information
see page 6 ►

Influenza and ILI Outbreaks Reported as of 3/26/2016



County Influenza Activity



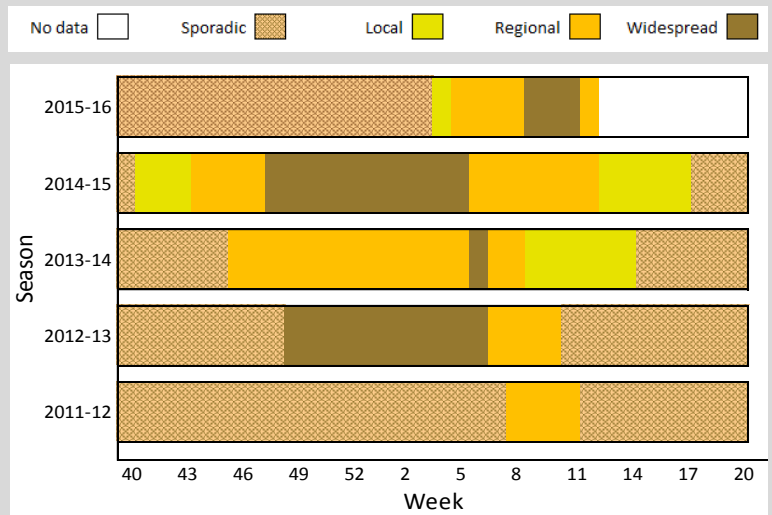
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Weekly State Influenza Activity Reporting

Below is the state influenza activity level reported to CDC each week since the 2011-12 influenza season. **Florida reported regional influenza activity for week 12.**



The graphic above shows how 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 11 ►

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.

ED and UCC Visits for ILI by Flu Season

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

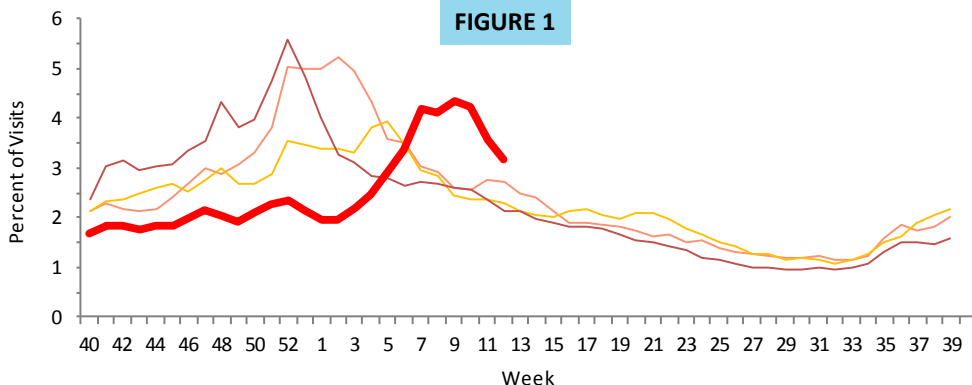


FIGURE 1

Figure 1 shows the percent of visits for ILI from ED and UCC chief complaints for ESSENCE-FL participating facilities (n=263), week 40, 2012 to week 12, 2016.

In week 12, the percent of visits to EDs and UCCs for ILI decreased, and indicates that we have seen the peak of the flu season, although activity still remains above levels seen in previous seasons at this time. This peak in activity occurred during weeks 7-11.

— 2015-16 — 2014-15 — 2013-14 — 2012-13

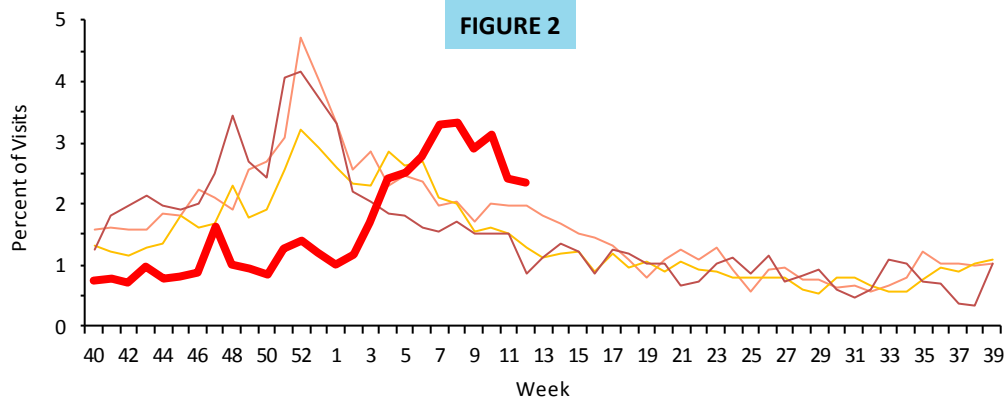
2015-16 2014-15 2013-14 2012-13

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=45), week 40, 2012 to week 12, 2016.

In week 12, the percent of visits for ILI reported by ILINet outpatient providers decreased, but remains above levels seen in previous seasons at this time. Peak flu activity reported by ILINet outpatient providers occurred in weeks 7-10.



P&I Deaths* from Vital Statistics by Flu Season

P&I = pneumonia and influenza

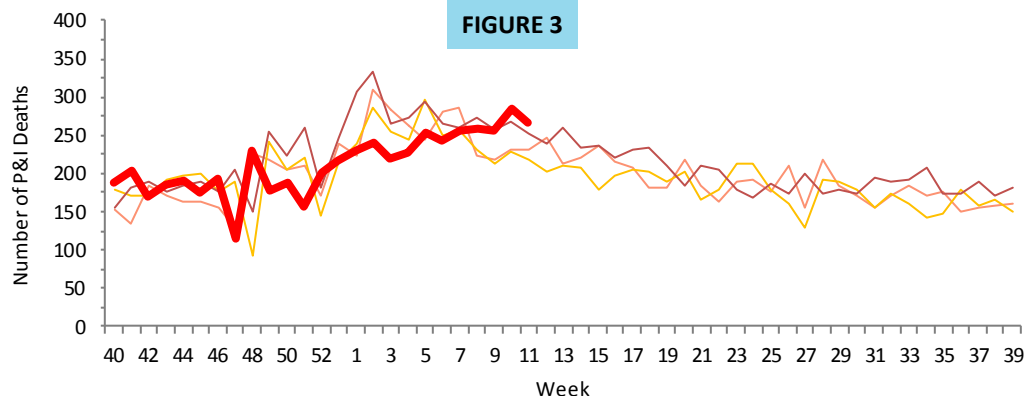


Figure 3 shows P&I deaths* for all Florida counties from the Bureau of Vital Statistics, as reported into ESSENCE-FL, week 40, 2012 to week 11, 2016.

As of week 11 (ending March 19, 2016), 5,328 P&I deaths have been reported in the 2015-16 influenza season.

The number of P&I deaths has decreased, but remains slightly above levels seen in previous seasons at this time. P&I deaths tend to occur later in the season as at-risk populations develop complications from influenza infection.

P&I Deaths*, Multi-Year Regression Model

P&I = pneumonia and influenza

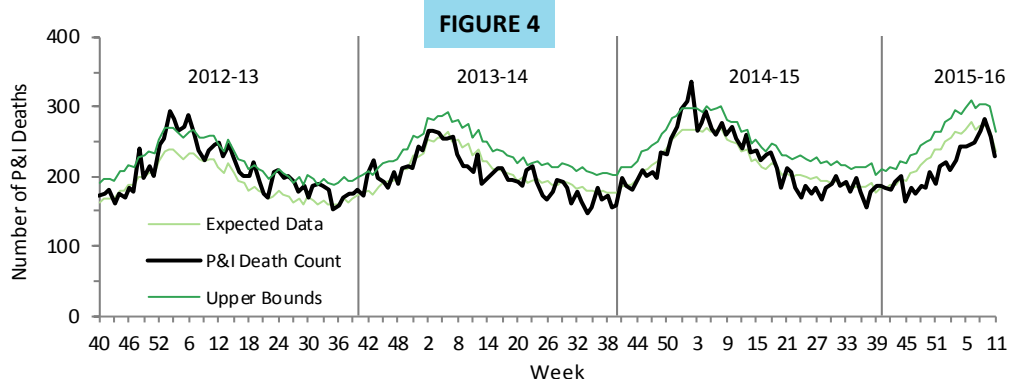
Figure 4 shows the number of preliminary estimated P&I deaths* for all Florida counties, the number of deaths predicted using a multi-year regression model, and the upper bound of the 95% confidence interval for this prediction.

For week 11 (ending March 19, 2016):

228 preliminary estimated P&I deaths were reported.

The upper bound of the 95% confidence interval for prediction is 286 deaths, with no excess deaths.

The number of P&I deaths is slightly above levels seen in previous seasons at this time. P&I deaths tend to occur later in the season as at-risk populations develop complications from influenza infection.



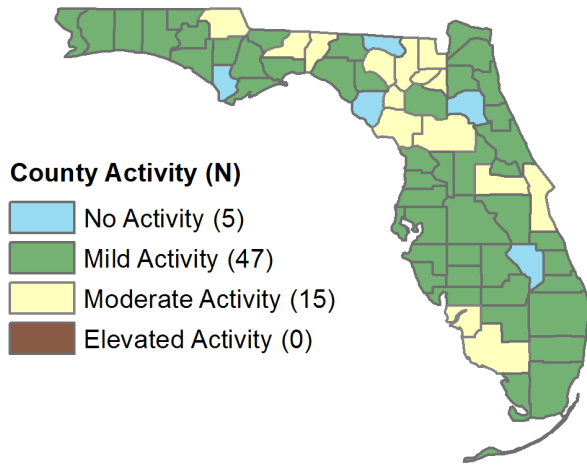
* Current season P&I death counts are preliminary estimates, and may change as more data are received. The most recent data available are displayed here. Vital statistics death records received in ESSENCE-FL are considered to be complete through week 11, 2016.

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's assessment of influenza activity within their county. For week 12, 11 counties reported "increasing" activity, 42 counties reported activity at a "plateau," and 14 counties reported "decreasing" activity.**

County Influenza Activity

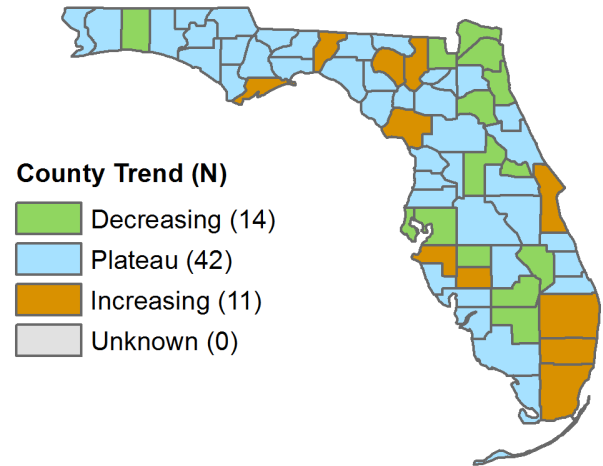
Map 1

County Influenza Activity Level for Week 12
Reported by 9:30 a.m. April 1, 2016



Map 2

County Influenza Activity Trend for Week 12
Reported by 9:30 a.m. April 1, 2016



As of 9:30 a.m. April 1, 2016, 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

Influenza-Associated Pediatric Deaths

FIGURES 5 - 7

Figures 5-7 show the number of pediatric deaths associated with influenza infection, week 40, 2011 to week 12, 2016.

Two influenza-associated pediatric deaths were reported in week 12. Both occurred in unvaccinated children with underlying health conditions, one in Sarasota County and one in Broward County.

Six influenza-associated pediatric deaths have been reported this season. While rare, Florida receives reports of influenza-associated pediatric deaths each season. **Most deaths occur in unvaccinated children with underlying health conditions.**

Children, especially those with underlying health conditions, are at higher risk of severe outcomes from influenza infection. **Annual vaccination remains the best way to protect against the flu. It is not too late to vaccinate children for the 2015-16 season.** To learn more please visit: www.cdc.gov/flu/protect/whoshouldvax.htm#annual-vaccination.

Figure 5: Influenza-Associated Pediatric Deaths by Vaccination Status

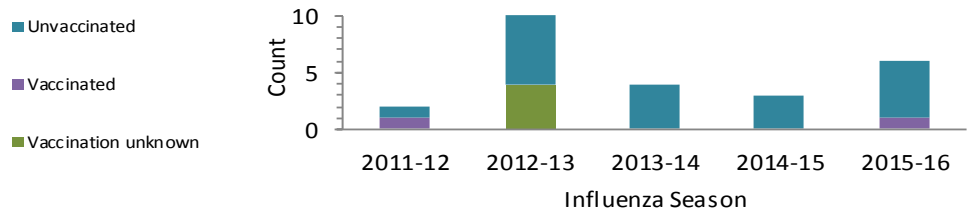


Figure 6: Influenza-Associated Pediatric Deaths by Medical History

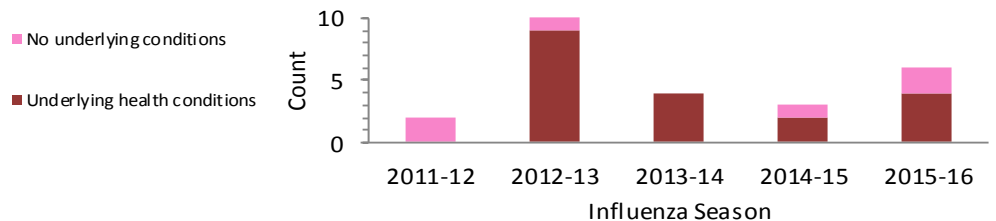
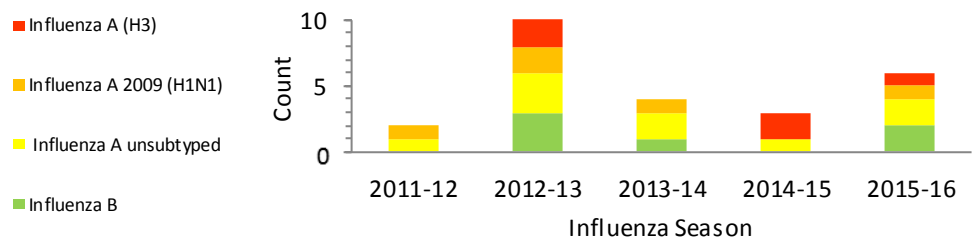


Figure 7: Influenza-Associated Pediatric Deaths by Strain Type



Reported Influenza and ILI Outbreaks

ILI = influenza-like illness

Forty-five outbreaks of influenza and ILI have been reported into EpiCom so far in the 2015-16 season. **Five outbreaks of influenza and three outbreaks of ILI were reported in week 12.** In all investigations, infection control methods were reviewed with facility leadership. **The majority of the outbreaks reported into EpiCom in week 12 occurred during weeks of peak influenza activity.**

Hillsborough County: (1) An elementary school reported 51 students and six staff members with ILI. Four individuals tested positive for influenza by rapid antigen testing at local health care providers. Of those four, two were subtyped as influenza A. No specimens were forwarded to BPHL for testing. Flu vaccination status is unknown. (2) An elementary school reported 22 students and three staff members with ILI. Two individuals tested positive for influenza A and one individual tested positive for influenza B by rapid antigen testing at local health care providers. No specimens were forwarded to BPHL for testing. Flu vaccination status is unknown. (3) An elementary school reported nine students with ILI. No specimens were available for influenza testing. Flu vaccination status is unknown. (4) An elementary school reported 71 students with ILI. No specimens were available for influenza testing. Flu vaccination status is unknown.

Pasco County: (1) A health care facility reported 13 residents and 26 staff members with ILI. Three staff members tested positive for influenza A. No specimens were forwarded to BPHL for testing. Flu vaccination status is unknown.

Pinellas County: (1) An assisted living facility reported two staff members with ILI. One staff member tested positive for influenza B by rapid antigen testing at a local health care provider. The other staff member was diagnosed with influenza at a local health care provider, however influenza testing was not conducted. No specimens were forwarded to BPHL for testing. Over 50 percent of staff members and 63 percent of residents were reported as having received the 2015-16 influenza vaccine.

Lee County: (1) An assisted living facility reported 19 residents and one staff member with ILI. No specimens were collected for influenza testing and no specimens have been forwarded to BPHL for testing. Flu vaccination status is unknown.

Baker County: (1) A correctional facility reported 24 inmates with ILI. Two inmates tested positive for influenza A by rapid antigen testing at a local hospital. Four specimens were collected and forwarded to BPHL for testing. Of those, three tested positive for influenza A 2009 (H1N1). Flu vaccination status is unknown.

Map 3 Influenza and ILI Outbreaks by County Week 40 through Week 12, 2016

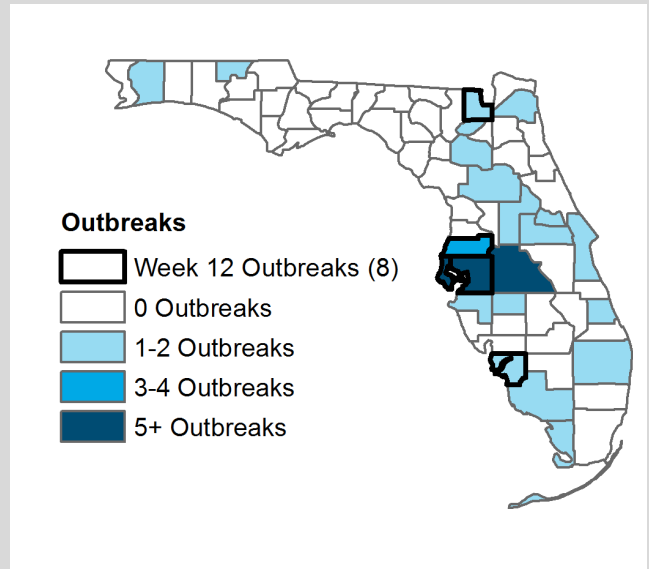


TABLE 1: Summary of Florida Influenza and ILI Outbreaks by Setting, Week 40 through Week 12, 2016

Setting	Total	A (H3)	A 2009 (H1N1)	A Unspecified	A & B Unspecified	B Yamagata	B Victoria	B Unspecified	Influenza Unspecified	Other respiratory viruses	Currently unknown pathogen
Schools	16	-	-	6	3	1	-	-	-	1 - respiratory syncytial virus (RSV)	5
Daycares	7	-	-	2	-	-	-	-	2	2 - RSV	1
Jails & prisons	5	-	1	3	-	-	-	-	-	-	1
Mental health facilities	-	-	-	-	-	-	-	-	-	-	-
Nursing homes & long term care facilities	14	1	1	2	-	-	-	4	-	1 - rhinovirus, 1 - human metapneumovirus	4
Health care facilities	1	-	-	1	-	-	-	-	-	-	-
Other	2	-	1	1	-	-	-	-	-	-	-
Total	45	1	3	15	3	1	-	4	2	5	11

Reported Influenza and ILI Outbreaks by Facility Type

ILI = influenza-like illness

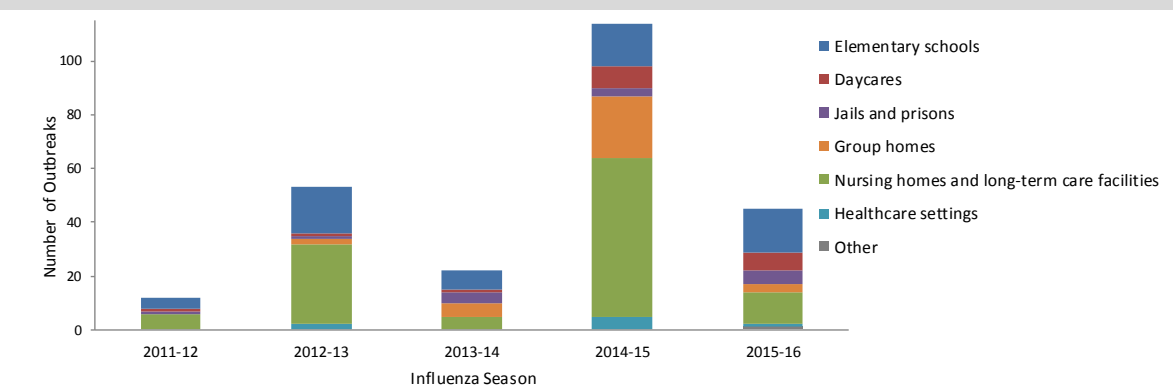
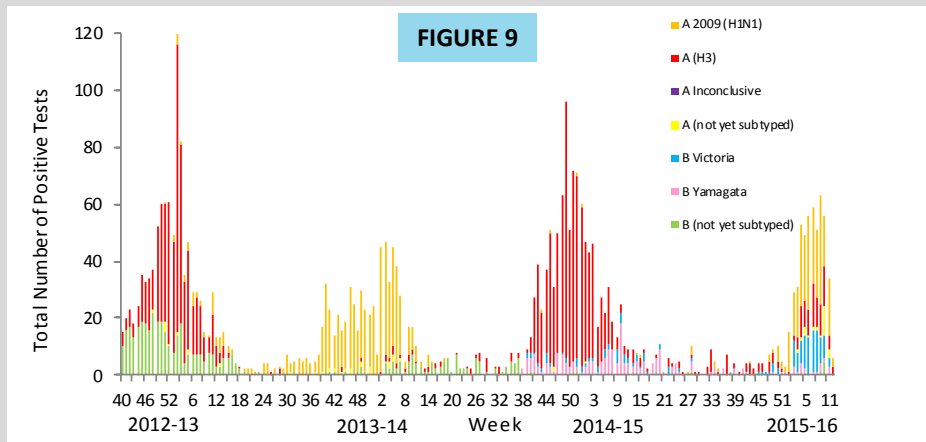


Figure 8 shows the distribution of outbreaks by facility type and season.

Influenza activity typically increases in children before older age groups. Increased ILI activity in facilities serving older age groups is expected at this time in the influenza season.

BPHL Viral Influenza Specimen Testing

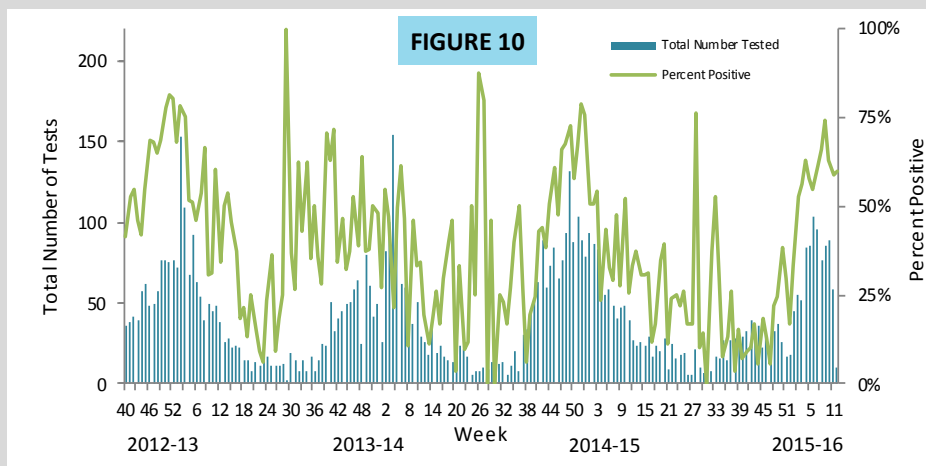
BPHL = Bureau of Public Health Laboratories



These figures use BPHL viral surveillance data.

Figure 9 shows the number of influenza-positive specimens, tested by subtype and lab event date*.

Influenza A 2009 (H1N1) has been the most commonly identified influenza subtype by BPHL since December. In the early part of the 2015-16 influenza season, influenza A (H3) was the most commonly identified subtype. This change has also been observed nationally.



Influenza B Yamagata lineage and influenza B Victoria lineage have also been identified by BPHL this season.

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

In recent weeks, the number of specimens tested for influenza and the percent of laboratory results testing positive for influenza have increased. Both indicators are above levels seen 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. April 1, 2016**

Specimen	Current Week 12	Previous Week 11	Current 2015-16 Season
Total Specimens Tested	10	58	1208
Influenza positive specimens (% of total specimen tested)	6 (60%)	34 (59%)	563 (47%)
Influenza A 2009 (H1N1) (% of influenza positives)	3 (50%)	20 (59%)	276 (49%)
Influenza A (H3) (% of influenza positives)	3 (50%)	5 (14%)	122 (22%)
Influenza A not yet subtyped (% of influenza positives)	-	3 (9%)	22 (4%)
Influenza A inconclusive** (% of influenza positives)	-	-	4 (1%)
Influenza B Yamagata (% of influenza positives)	-	3 (9%)	25 (4%)
Influenza B Victoria (% of influenza positives)	-	3 (9%)	108 (19%)
Influenza B not yet subtyped (% of influenza positives)	-	-	6 (1%)

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

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

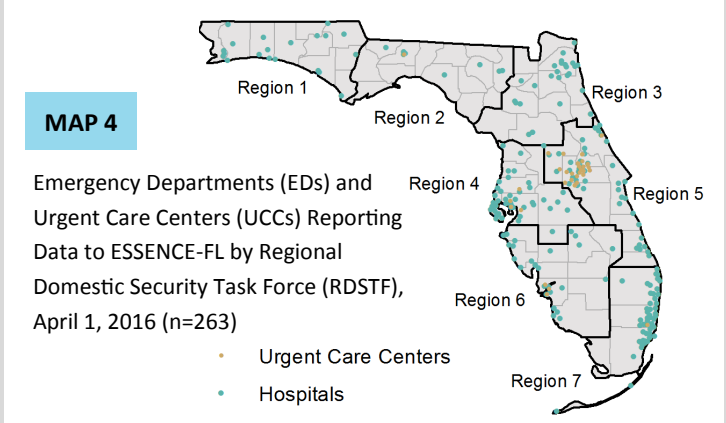
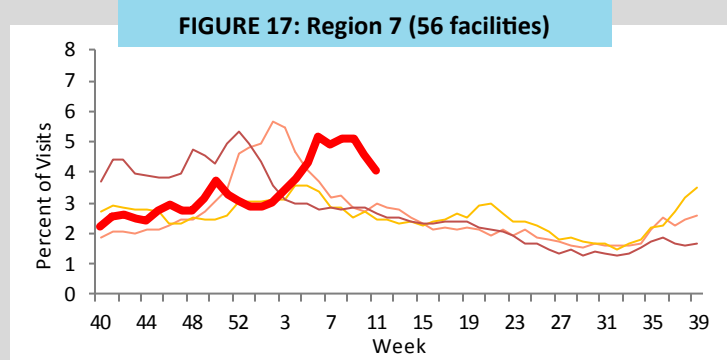
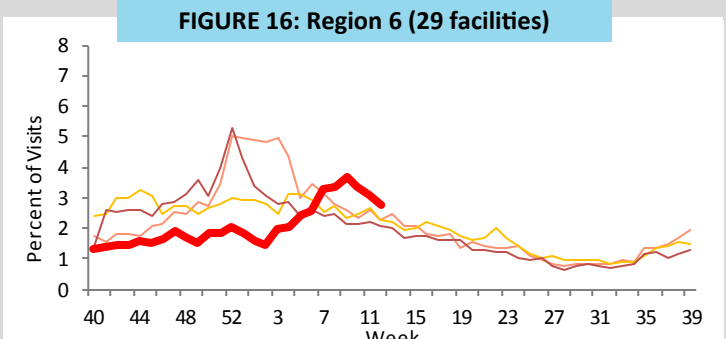
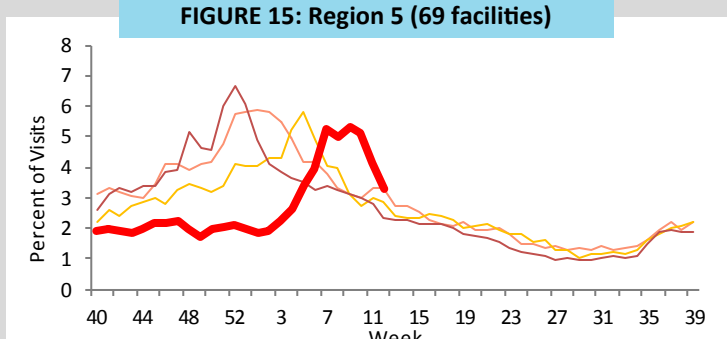
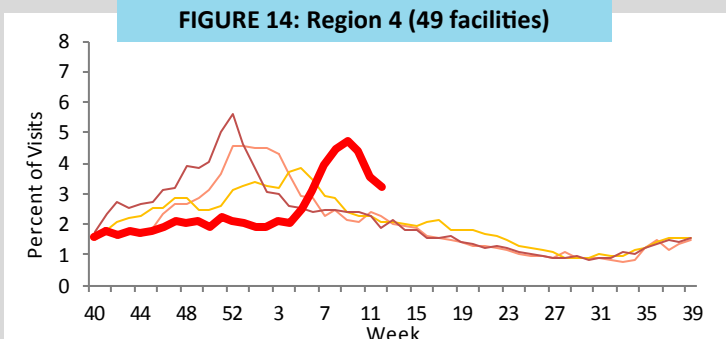
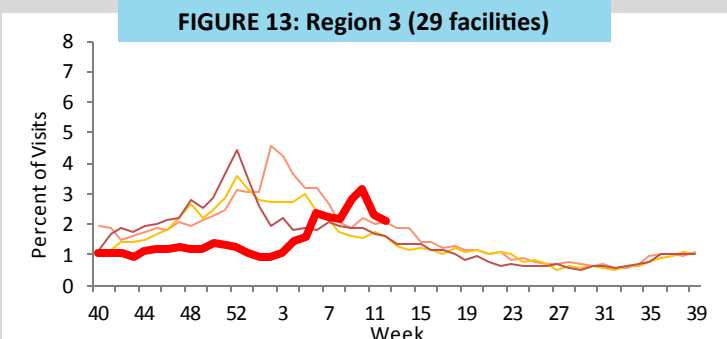
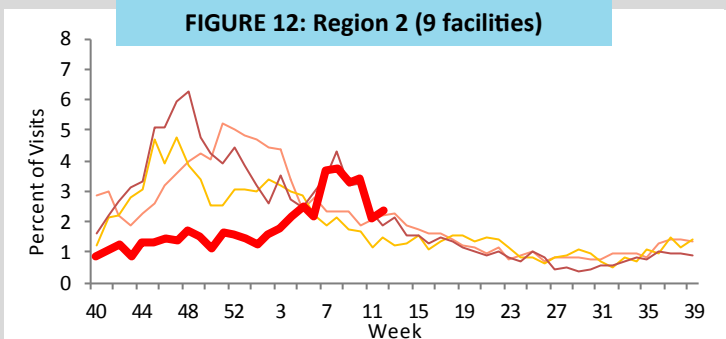
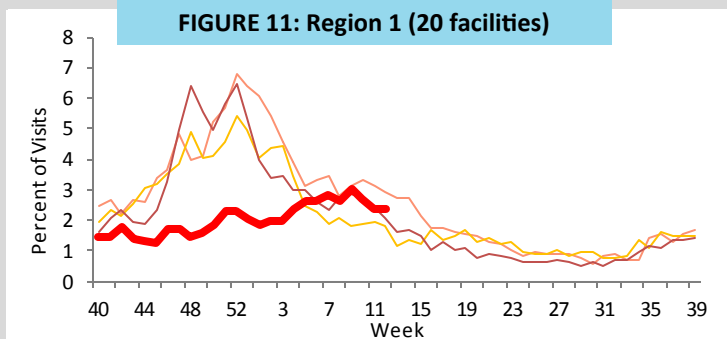
For county-specific laboratory data, please refer to the Flu Lab Report in Merlin. For instructions on how to use the Flu Lab Report, please see the Guide to Flu Lab Report on the Bureau of Epidemiology website:

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

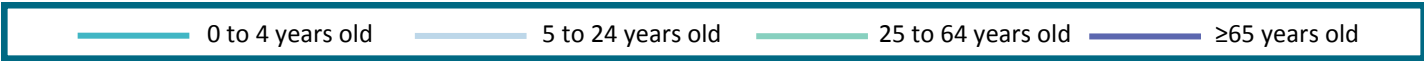
ED and UCC Visits for ILI by Region

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

Figures 11-17 show the percent of visits for ILI from ED and UCC chief complaints for ESSENCE-FL participating facilities (n=263), by ESSENCE-FL Regional Domestic Security Task Force (RDSTF) regions (see map 4) from week 40, 2012 to week 12, 2016*. In week 12, ED and UCC ILI visits decreased in all regions, with the exception of region 2. ED and UCC visits are similar to levels seen in previous seasons in all regions except for regions 4 and 5, where levels remain above those seen in previous seasons at this time.



*There is no week 53 for the 2012-13, 2013-14, and 2015-16 seasons; the week 53 data point for those seasons is an average of weeks 52 and 1.

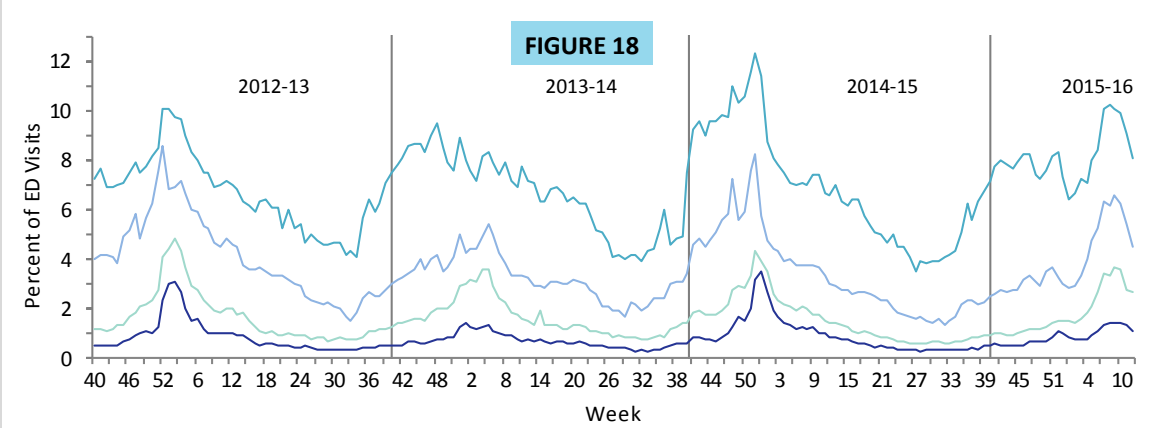


ED and UCC Visits for ILI by Age Group

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=263), week 40, 2012 to week 12, 2016.

In week 12, ED and UCC visits for ILI decreased, but remain above levels seen in previous seasons in all age groups at this time.



Visits to Outpatient Providers for ILI by Age Group*

ILI = influenza-like illness

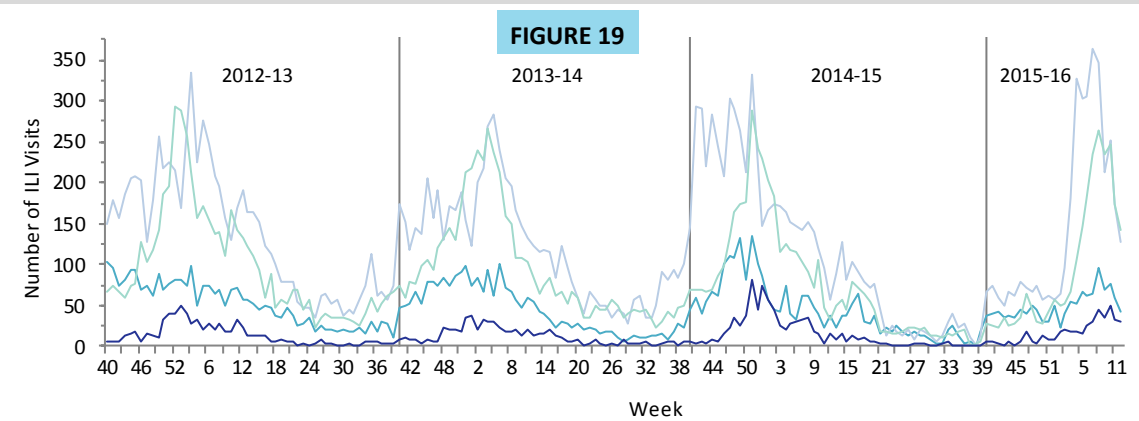


Figure 19 shows the number of visits for ILI reported by ILINet outpatient providers statewide (n=45) by age group, week 40, 2012 to week 12, 2016.

In week 12, the number of visits for ILI decreased in all age groups, but remains above levels seen in previous seasons in the 25-64 and ≥65 age groups. The number of visits for ILI is similar to levels seen in previous seasons in the 0-4 and 5-24 age groups.

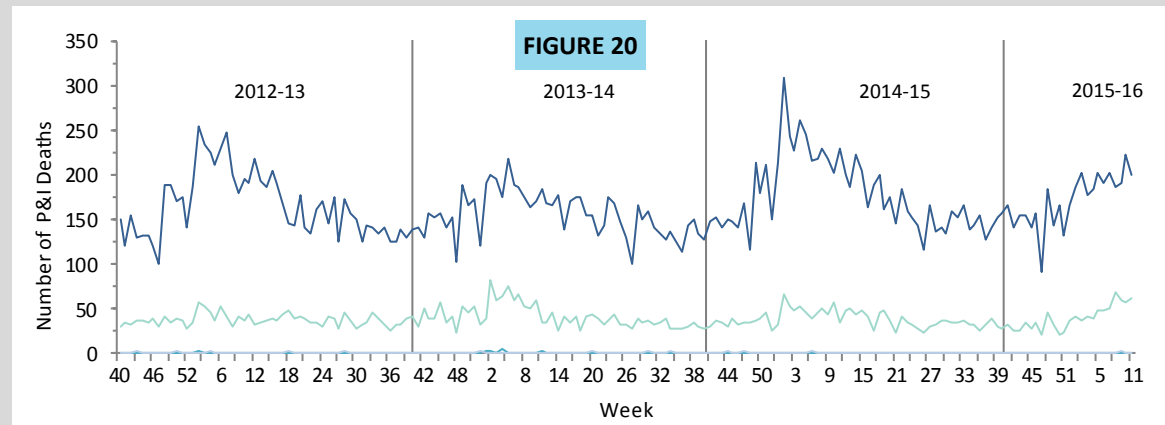
*Data presented here are counts, not proportions. This is because age group denominator data is not available through ILINet.

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, 2012 to week 11, 2016.

As of week 11 (ending March 19, 2016), the number of P&I deaths increased in the 25-64 age group and decreased in all other age groups. Levels are above those seen in previous seasons in the 25-64 age group at this time. Levels are similar to those seen in previous seasons in the 0-4, 5-24, and ≥65 age groups at this time.



*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 11, 2016.

ESSENCE-FL collects data daily from 261 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.

2015-16 2014-15 2013-14 2012-13

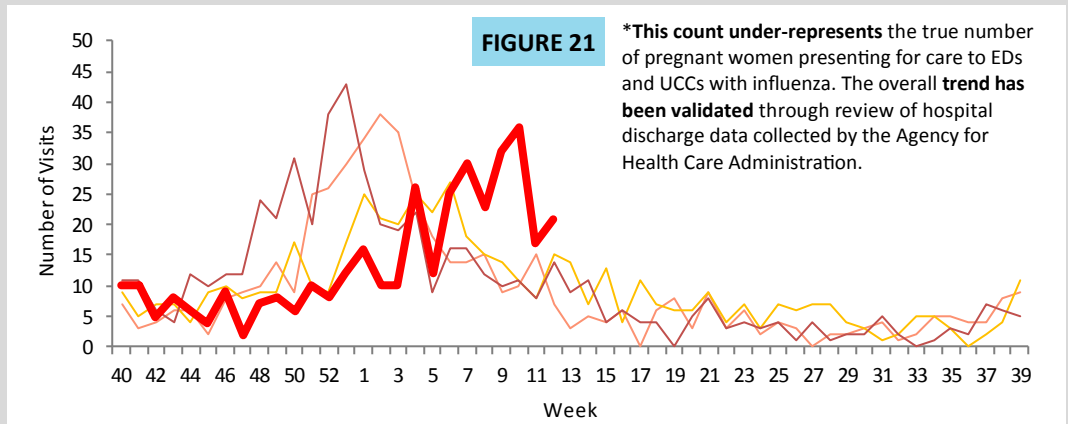
ED and UCC Visits for ILI by Pregnant Women

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

Pregnant women are at high 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 ESSENCE-FL, week 40, 2012 to week 12, 2016.

In week 12, the number of visits to EDs and UCCs by pregnant women with mention of influenza increased and remains above levels 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

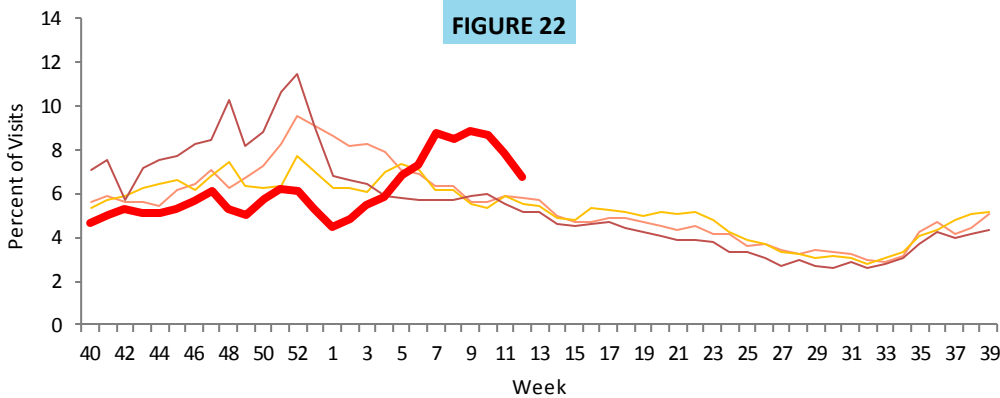


Figure 22 shows the percent of ILI visits among all ED and UCC visits for children ≤ 18 years old, as reported into ESSENCE-FL, week 40, 2012 to week 12, 2016.

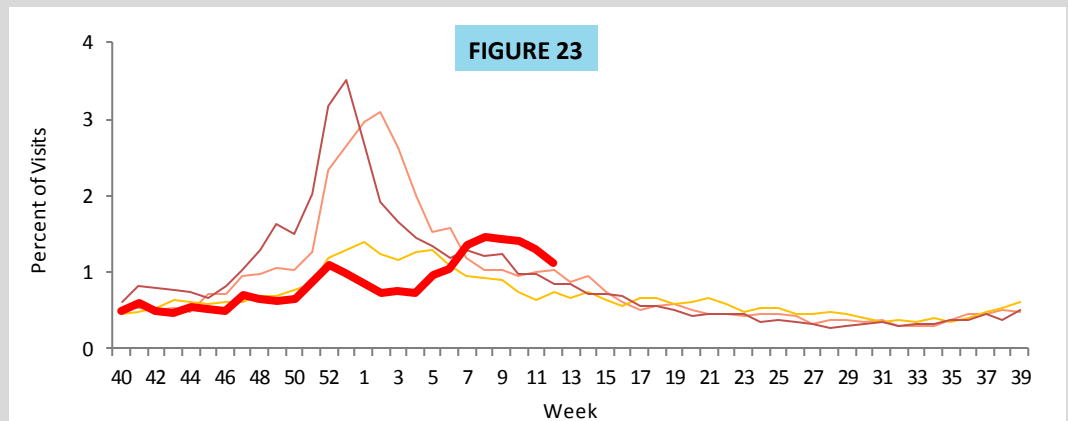
In week 12, the percent of ILI visits among all ED and UCC visits for children ≤ 18 years old decreased, but remains above levels seen in previous seasons at this time.

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 ESSENCE-FL, week 40, 2012 to week 12, 2016.

In week 12, the percent of ILI visits among all ED and UCC visits for adults ≥ 65 years old decreased and is similar to levels seen in previous seasons at this time.



ILI Activity by Setting Type

ILI = influenza-like illness

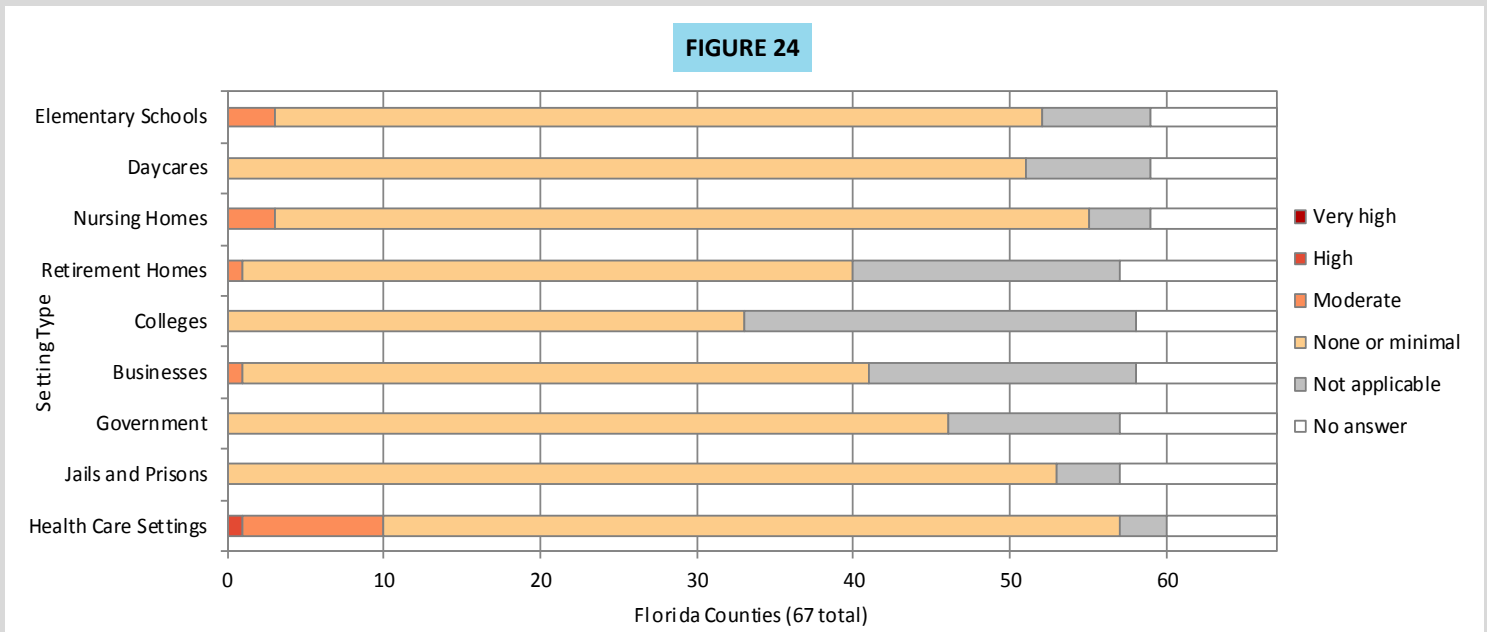
County health departments are asked to evaluate influenza activity in certain settings within their county. The assessment scale for activity ranges from no or minimal activity to very high activity.

Figure 24 shows the results of the influenza activity assessment for week 12, 2016.

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 under 18

In elementary schools, three counties (5%) reported moderate influenza or ILI activity.

In daycare settings, 51 counties (86%) reported no or minimal influenza or ILI activity.

Settings for Adults over 65

In nursing homes, three counties (5%) reported moderate influenza or ILI activity.

In retirement homes, one county (2%) reported moderate influenza or ILI activity.

Settings for Adults ages 18 to 65

In colleges, 33 of 42 counties (79%) reported no or minimal influenza or ILI activity.

In businesses, one county (2%) reported moderate influenza or ILI activity.

In government offices, 46 counties (82%) reported no or minimal influenza or ILI activity.

Other Unique settings

In jails and prisons, 53 counties (84%) reported no or minimal influenza or ILI activity.

In health care settings, including rehabilitation facilities and mental health facilities, one county (2%) reported high influenza or ILI activity.

Laboratory Viral Respiratory Surveillance

FIGURE 25

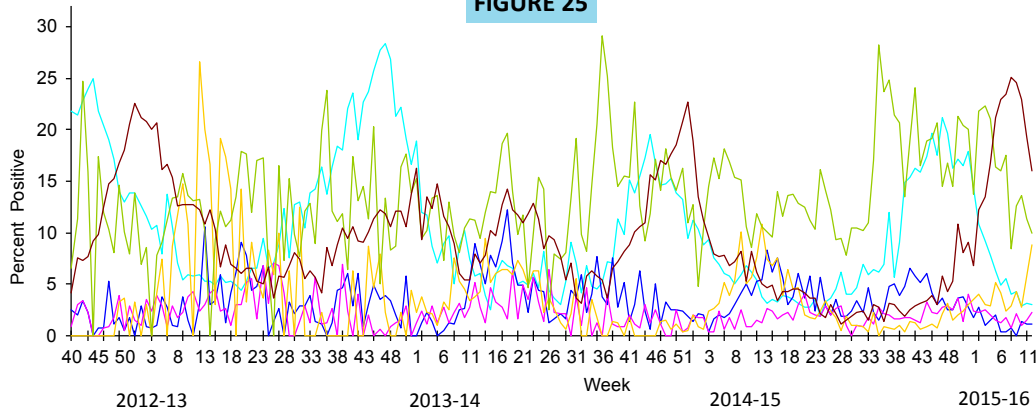
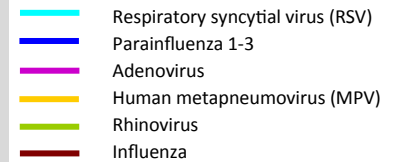


Figure 25 shows the percent of laboratory results testing positive for eight common respiratory viruses, as reported by hospital laboratories (n=11), week 40, 2012 to week 12, 2016.

In week 12, the percent of specimens testing positive for influenza is above peak activity seen in previous seasons at this time. The percent of specimens testing positive for MPV increased notably in recent weeks.



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 Labs (BPHL) for confirmatory testing.

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

- 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. EDs and UCCs 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.

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. Reports by county health departments include the type of respiratory disease causing the outbreak and settings where outbreaks are occurring. CHD epidemiologists report outbreaks of influenza or ILI into EpiCom, Florida's online disease communication 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 figure 25

- 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 six commonly circulating respiratory viruses. NREVSS data is collected by the Centers for Disease Control and Prevention (CDC) and ELR data is collected by the Florida Department of Health (DOH).

Case-Based Influenza Surveillance**Influenza-Associated Pediatric Deaths (Merlin)** • Data source for figure 5-7**Influenza due to Novel or Pandemic Strains (Merlin)**