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
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.
Statewide ILI Outpatient Visits and P&I Deaths

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.
Figures 5-7 show the number of pediatric deaths associated with influenza infection, week 40, 2012 to week 3, 2017. One influenza-associated pediatric death was reported in week 3. The child had underlying health conditions and had 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. 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 influenza. It is not too late to vaccinate children for the 2016-17 influenza season. CDC recommends vaccination as long as influenza viruses are circulating. To learn more, please visit: www.cdc.gov/flu/protect/whosouldvax.htm#annual-vaccination.

County Influenza and ILI Activity Maps

County Influenza Activity

Map 1

County Influenza Activity Level for Week 3
Reported by 9:30 a.m. January 25, 2017

Map 2

County Influenza Activity Trend for Week 3
Reported by 9:30 a.m. January 25, 2017

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

Figures 5-7

Figures 5-7 show the number of pediatric deaths associated with influenza infection, week 40, 2012 to week 3, 2017.

One influenza-associated pediatric death was reported in week 3. The child had underlying health conditions and had 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. 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 influenza. It is not too late to vaccinate children for the 2016-17 influenza season. CDC recommends vaccination as long as influenza viruses are circulating. To learn more, please visit: www.cdc.gov/flu/protect/whosouldvax.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
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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Total</th>
<th>A (H3)</th>
<th>A 2009 (H1N1)</th>
<th>A Unsubtyped</th>
<th>A &amp; B Unsubtyped</th>
<th>B Yamagata</th>
<th>B Victoria</th>
<th>B Unsubtyped</th>
<th>Influenza Unspecified</th>
<th>Other respiratory viruses</th>
<th>Currently unknown pathogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Daycares</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Jails &amp; prisons</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Mental health facilities</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Nursing homes &amp; long-term care facilities</td>
<td>31</td>
<td>2</td>
<td>-</td>
<td>14</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>2</td>
<td>2-RSV</td>
<td>10</td>
</tr>
<tr>
<td>Health care facilities</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>36</td>
<td>2</td>
<td>0</td>
<td>14</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>14</td>
</tr>
</tbody>
</table>

Reported Influenza and ILI Outbreaks by Facility Type

Map 3 Influenza and ILI Outbreaks by County Week 40, 2016 through Week 3, 2017

Outbreaks
- Week 3 Outbreaks (2)
- 0 Outbreaks
- 1-2 Outbreaks
- 3-4 Outbreaks
- 5+ Outbreaks

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

In week 3, two outbreaks were reported: one in a long-term care facility and one in a correctional facility.

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.
Laboratory Surveillance

Figures 9 and 10 use BPHL viral surveillance data.

Figure 9 shows the number of influenza-positive 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.

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*“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.


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### Table 2: Bureau of Public Health Laboratories (BPHL) Viral Surveillance by Lab Event Date*

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

**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.
There is no week 53 for the 2013-14, 2015-16, and 2016-17 seasons; the week 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.

*There is no week 53 for the 2013-14, 2015-16, and 2016-17 seasons; the week 53 data point for those seasons is an average of weeks 52 and 1.
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.

*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.

**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, 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.

**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, 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.

**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, 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.

*This count under-represents the true number of pregnant women presenting for care to EDs and UCCs with influenza. The overall trend has been validated through review of hospital discharge data collected by the Agency for Health Care Administration.*
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 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.

**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.

**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 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](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

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

**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 3, 2017.

In week 3, the percent of children presenting to participating EDs and UCCs for care with RSV decreased. Levels remain above those observed in the 2014-15 and 2013-14 seasons at this time.

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**Laboratory RSV Surveillance**

**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.

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*This overall trend has been validated through review of hospital discharge data collected by the Agency for Health Care Administration.*
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 respiratory viruses, as reported by hospital laboratories (n=11), week 40, 2013 to week 3, 2017.

In recent weeks, the percent of specimens testing positive for influenza increased and was higher than other respiratory viruses under surveillance.

Non-Influenza ARIES Laboratory Outpatient Surveillance*

ARIES = Acute Respiratory Infection Epidemiology and Surveillance Program

Figure 28 shows the number of specimens testing positive for 13 common respiratory viruses, as reported by BPHL and ARIES outpatient providers statewide (n=6), week 40, 2015 to week 2, 2017.

Specimens submitted by ARIES providers in week 2 (ending January 14, 2017) tested positive for rhinovirus and coronavirus NL63.

*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 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 RSV-associated 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.

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.