Week 20 influenza & influenza-like illness (ILI) activity summary:

Week 20 marks the end of the production of the weekly influenza report. The Florida Department of Health will continue to distribute influenza reports in an abbreviated format during the summer months on a biweekly basis.

Surveillance for influenza will continue during the summer months with a focus on identification of outbreaks and unusually severe presentations of influenza or ILI.

The 2019-20 influenza season is coming to a close. Overall, influenza activity is low statewide. While activity has declined overall, influenza viruses continue to circulate at low levels throughout the summer months in Florida. Sporadic outbreaks reports during the summer are expected.

The timing of peak activity this season varied across regions, ranging from as early as week 52 (ending December 28, 2019) to as late as week 5 (ending February 1, 2020). For more information on regional trends, see page 8.

The percent of influenza-positive laboratory results remained low. Influenza A 2009 (H1N1) remained the predominant strain.

Likewise, the percent of emergency department and urgent care center visits with discharge diagnoses that include influenza decreased in recent weeks.

No new influenza-associated pediatric deaths were reported. Fourteen influenza-associated pediatric deaths have been reported so far this season; the majority of these deaths were in children who were not vaccinated for the 2019-20 season.

The COVID-19 pandemic is affecting health care seeking behavior, which may be impacting the ILI and influenza activity trends shown in this report. An overall reduction in the number of emergency department and urgent care center visits has been observed in recent weeks, along with changes in the reasons for seeking care at these facilities.

Of note, some of the figures in this report that previously displayed chief complaints of ILI were updated to display discharge diagnoses of influenza to better reflect influenza activity trends in Florida. The Florida Department of Health will continue to make updates and provide clarification on the trends presented in this report as needed.
Influenza, or flu, is a respiratory infection caused by a variety of influenza viruses. Most experts believe influenza viruses spread primarily by droplets made when infected people cough, sneeze, or talk. Less often, a person might become infected with influenza by touching a surface or object contaminated with influenza virus and then touching their own mouth, eyes, or nose.

The best way to prevent influenza infection is to get vaccinated each year. Influenza vaccines protect against the three or four influenza viruses research suggests will be most common.

Influenza Surveillance

Individual cases of influenza are not reportable in Florida with the exception of novel influenza A (a new subtype of influenza A) and influenza-associated pediatric deaths. All outbreaks, including those due to influenza or influenza-like illness (ILI), are reportable in Florida.

Influenza surveillance is conducted to detect changes in the influenza virus. These data are used to help determine the annual northern hemisphere vaccine composition and to prepare for potential pandemics.

Surveillance case definitions for ILI vary slightly across surveillance systems. For more information on Florida’s influenza surveillance systems and associated case definitions, see page 16.

Statewide Activity

Figure 1: In week 20, the percent of emergency department and urgent care center visits with a discharge diagnosis of influenza statewide remained stable and was below the previous three-season average for this time. Of note, the query used to capture these data now utilizes discharge diagnoses rather than chief complaints to better capture influenza activity trends in Florida.

Figure 1 shows the percent of visits with discharge diagnoses that include influenza (with certain exceptions) for facilities participating in ESSENCE-FL (n=375) statewide for the current season (week 40, 2019 to week 20, 2020) and the previous three season average (2018-19, 2017-18, and 2016-17). Of note, influenza may not be laboratory-confirmed for all the visits included in this query. For more information on the use of ESSENCE-FL for influenza and ILI surveillance, see page 16.
Figure 2: In week 20, Florida reported **sporadic geographic spread of influenza** to the Centers for Disease Control and Prevention.

Figure 2 shows Florida’s self-reported **geographic spread of influenza** as reported to the Centers for Disease Control and Prevention, week 40, 2016 to week 20, 2020.

**Defining geographic spread of influenza:**

**Sporadic:** small numbers of laboratory-confirmed influenza or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.

**Local:** outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least two but less than half the regions of the state.

**Regional:** outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions.

**Widespread:** Outbreaks of influenza or increases in ILI cases and recent laboratory confirmed influenza in at least half the regions of the state.

**Widespread:** Outbreaks of influenza or increases in ILI cases and recent laboratory confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state.

Figure 3: In week 20, the percent of patients with ILI reported by ILINet providers statewide remained stable and was below levels observed during previous seasons. Of note, the number of reporting providers remained low in recent weeks.

Figure 3 shows the **percent of patients with influenza-like illness (ILI)** reported statewide by ILINet providers (n=8), week 40, 2016 to week 20, 2020.

For ILINet, ILI is defined as a fever ≥100°F in conjunction with sore throat or cough in the absence of another known cause.

Figure 4: In week 18 (ending 5/2/20), the **number of pneumonia and influenza deaths identified statewide decreased** and was similar to levels observed at this time in previous seasons. Of note, the query used to capture these data now excludes pneumonia associated with Coronavirus Disease 2019 (COVID-19) to better capture influenza death trends in Florida.

Figure 4 shows pneumonia and influenza (P&I) deaths* for all Florida counties from the Bureau of Vital Statistics, as reported into ESSENCE-FL, week 40, 2016 to week 18, 2020.

*Recent P&I death counts are preliminary numbers that may change as more data are received. The most recent data available are displayed here.
Figure 5: All 67 counties reported no activity or \textit{mild activity} for week 20.

Figure 6: Most counties reported \textit{decreasing activity} for week 20. Twenty-seven counties reported \textit{activity at a plateau}, and two counties reported \textit{increasing activity}.

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{county_activity.png}
\caption{County activity (N).}
\end{figure}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{county_trend.png}
\caption{County trend (N).}
\end{figure}

\textbf{Figures 5-6} show \textbf{county influenza activity data} as reported by county health departments in EpiGateway. These data are collected on a weekly basis and are used to determine influenza activity levels for each county (Figure 5). County health departments also report their weekly influenza activity trend (Figure 6).

Figure 7: In week 20, the \textit{percent of specimens testing positive for rhinovirus} increased and was higher than other respiratory viruses under surveillance (including influenza). The \textit{percent of specimens testing positive for influenza} decreased notably in recent weeks. Of note, a significant decrease in the volume of influenza testing was observed in previous weeks. This figure may change as additional data are received.

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{virus_percent_pos.png}
\caption{In week 20, the percent of specimens testing positive for rhinovirus increased and was higher than other respiratory viruses under surveillance (including influenza). The percent of specimens testing positive for influenza decreased notably in recent weeks. Of note, a significant decrease in the volume of influenza testing was observed in previous weeks. This figure may change as additional data are received.}
\end{figure}

\textbf{Figure 7} shows the \textit{percent of laboratory results testing positive for eight common respiratory viruses}, as reported by laboratories participating in the National Respiratory and Enteric Virus Surveillance System (NREVSS) and laboratories reporting validated respiratory virus data to the Florida Department of Health via electronic laboratory reporting (n=5), week 40, 2019 to week 20, 2020.
Influenza and ILI Outbreaks

Week 20 Outbreaks at a Glance:

Number Reported: 0 Outbreaks
Influenza-Associated: 0 Outbreaks
Severe Outcomes*: 0 Outbreaks

Outbreak Summary:
No influenza-associated or ILI outbreaks were reported in week 20.

During the previous season, severe outcomes were most commonly reported in facilities serving adults aged ≥65 years (assisted living facilities, nursing facilities, and long-term care facilities).

Figure 9: In week 20, no outbreaks were reported.

Figure 10: As of week 20, 66.7% of outbreaks reported so far this season were influenza-associated.

*Severe outcomes are defined as hospitalization or death among one or more outbreak cases.

**Total outbreaks includes the number of influenza-associated outbreaks in addition to outbreaks of ILI.
**Influenza and ILI Outbreaks**

**Facilities Serving Children**: 

0 Outbreaks

*Facilities serving children include primary schools, secondary schools, and child daycares.

**Summary of Outbreaks in Facilities Serving Children**: 

In week 20, no new outbreaks of influenza or ILI were reported in facilities serving children.

Figure 11: In week 20, no new outbreaks were reported in **facilities serving children**.

▲ Figure 11 shows the number of **influenza-associated or ILI outbreaks in facilities serving children by week** as reported in Merlin by county health departments, week 40, 2019 to week 20, 2020.

**Facilities Serving Adults ≥65 yrs.**: 

0 Outbreaks

**Facilities serving adults ≥65 years include assisted living facilities, nursing homes, and other long-term care facilities.**

**Summary of Outbreaks in Facilities Serving Adults ≥65 years**: 

In week 20, no new outbreaks of influenza or ILI were reported among facilities serving adults aged ≥65 years.

Figure 12: In week 20, no new outbreaks were reported among **facilities serving adults ≥65 years**.

▲ Figure 12 shows the number of **influenza-associated or ILI outbreaks in facilities serving adults aged ≥65 years by week** as reported in Merlin by county health departments, week 40, 2019 to week 20, 2020.
Summary of Outbreaks in Other Facilities:

In week 20, no new outbreaks of influenza or ILI was reported among other facilities.

*Other facilities include post-secondary schools, adult daycares, correctional facilities, hospitals, shelters, and workplaces.

Figure 13: In week 20, no new outbreaks were reported among other facilities.

Table 1: Summary of Influenza or ILI Outbreaks Reported During the 2019-20 Season by Setting

<table>
<thead>
<tr>
<th>Setting</th>
<th>Number of Outbreaks (Percent of Outbreaks)</th>
<th>Number Influenza-Associated or ILI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary or secondary schools</td>
<td>137 (44.8%)</td>
<td>91 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>46 ILI outbreaks</td>
</tr>
<tr>
<td>Child daycares</td>
<td>40 (13.1%)</td>
<td>17 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23 ILI outbreaks</td>
</tr>
<tr>
<td>Camps</td>
<td>0 (0.0%)</td>
<td>0 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 ILI outbreaks</td>
</tr>
<tr>
<td>Assisted living facilities</td>
<td>27 (8.8%)</td>
<td>13 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14 ILI outbreaks</td>
</tr>
<tr>
<td>Nursing facilities</td>
<td>23 (7.5%)</td>
<td>19 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 ILI outbreaks</td>
</tr>
<tr>
<td>Other long-term care facilities</td>
<td>36 (11.8%)</td>
<td>26 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 ILI outbreaks</td>
</tr>
<tr>
<td>Adult daycares</td>
<td>0 (0.0%)</td>
<td>0 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 ILI outbreaks</td>
</tr>
<tr>
<td>Post-secondary schools</td>
<td>0 (0.0%)</td>
<td>0 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 ILI outbreaks</td>
</tr>
<tr>
<td>Correctional facilities</td>
<td>35 (11.4%)</td>
<td>33 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 ILI outbreaks</td>
</tr>
<tr>
<td>Hospitals</td>
<td>3 (1.0%)</td>
<td>2 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 ILI outbreak</td>
</tr>
<tr>
<td>Additional facility types</td>
<td>5 (1.6%)</td>
<td>3 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 ILI outbreaks</td>
</tr>
<tr>
<td>Total</td>
<td>306 (100.0%)</td>
<td>204 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>102 ILI outbreaks</td>
</tr>
</tbody>
</table>
Figure 14: **Influenza A 2009 (H1N1)** is the most common influenza subtype detected so far this season. **Influenza B Victoria lineage** was predominant earlier in the season, but the frequency of those detections decreased in recent weeks.

**Figure 14** shows the number of influenza-positive laboratory results at the Bureau of Public Health Laboratories (BPHL) by lab-event date,* week 30, 2019 through week 20, 2020.

Figure 15: **Influenza A 2009 (H1N1)** makes up the largest number of influenza detections at BPHL since week 40. Earlier in the season, **influenza B Victoria lineage** was the most common strain.

**Figure 15** shows the number of influenza-positive laboratory results for specimens submitted to BPHL for the current 2019-20 influenza season, week 40, 2019 through week 20, 2020.

The results shown here are reflective of the influenza testing performed by BPHL thus far for specimens with lab event dates* within this timeframe.

*"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.

**This number includes both influenza A specimens for which subtyping has not yet been performed as well as specimens that tested positive for influenza A but were unable to be subtyped due to low viral load.
Regional Activity

Figures 16-22 show the percent of emergency department and urgent care center visits with discharge diagnoses of influenza at ESSENCE-FL participating facilities (n=375) from week 40, 2016 to week 19, 2020. Data are organized by region (see Figure 23).

Figure 16: In **region 1**, influenza activity slightly increased during week 20 but was below the previous three-season average for this time.*

Figure 17: In **region 2**, influenza activity remained stable during week 20 and was below the previous three-season average for this time.*

Figure 18: In **region 3**, influenza activity remained stable during week 20 and was below the previous three-season average for this time.*

Figure 19: In **region 4**, influenza activity remained stable during week 20 and was below the previous three-season average for this time.*

Figure 20: In **region 5**, influenza activity remained stable during week 20 and was below the previous three-season average for this time.*

Figure 21: In **region 6**, influenza activity remained stable during week 20 and was below the previous three-season average for this time.*

Figure 22: In **region 7**, influenza activity remained stable during week 20 and was below the previous three-season average for this time.*

*Of note, the queries used to capture these data now utilizes discharge diagnoses rather than chief complaints to better capture influenza activity trends in Florida.
At-Risk Populations

Background: At-Risk Populations, Children

Children, especially those with underlying health conditions (like asthma or diabetes), are at higher risk for severe complications from influenza infection. The single best way to protect children from influenza is to get them vaccinated every year. The Centers for Disease Control and Prevention continues to recommend influenza vaccination as long as flu viruses are circulating. To find a flu shot near you, please visit: VaccineFinder.org.

Figure 24: In week 20, the percent of emergency department and urgent care center visits with a discharge diagnosis of influenza in children <18 years remained stable and was below the previous three-season average for this time. Of note, the query used to capture these data now utilizes discharge diagnoses rather than chief complaints to better capture influenza activity trends in Florida.

Figures 25-26: In week 20, no new influenza-associated pediatric deaths were reported. A total of 14 influenza-associated pediatric deaths have been reported so far this season.

*The Advisory Committee on Immunization Practices (ACIP) recommends children aged six months to eight years receive two doses of influenza vaccine administered a minimum of four weeks apart during their first season of vaccination for optimal protection. The Florida Department of Health includes children in this age group who did not receive a second influenza vaccine in this unvaccinated category. To learn more about the ACIP’s 2019-20 recommendations, please visit: www.cdc.gov/mmwr/volumes/68/rr/rr6803a1.htm.
At-Risk Populations Continued

Background: At-Risk Populations, Pregnant Women

Influenza is five times more likely to cause severe illness in pregnant women (even those who are generally healthy) compared to women who are not pregnant. Pregnant women with certain underlying medical conditions (such as asthma or heart disease) are at even greater risk for severe complications from influenza. Inactivated influenza vaccines are safe, provide the best protection for pregnant women and their babies, and are recommended at any time during pregnancy. Vaccination during pregnancy provides maternal antibody protection to infants too young to be vaccinated for influenza and has been shown to protect pregnant women from influenza-associated hospitalization and preterm birth. For more information, talk to your health care provider.

Figure 27: In week 20, the number of emergency department and urgent care center visits for influenza among pregnant women remained stable and was below levels observed at this time during previous seasons.

*This count underrepresents the true number of pregnant women presenting for care to emergency departments and urgent care centers with influenza, however, the overall trend has been validated through review of discharge data collected by the Agency of Health Care Administration.

Background: At-Risk Populations, Adults Aged ≥65 Years

Adults ≥65 years old are at higher risk for severe complications from influenza infection, including hospitalization and death. While influenza seasons vary in intensity, adults in this age group bear the greatest burden of severe influenza disease. In Florida, an average of 80% of seasonal pneumonia and influenza deaths occurred in adults aged ≥65 years over the last five influenza seasons. Annual vaccination is the best way to prevent influenza infection.

Figure 28: In week 20, the percent of emergency department and urgent care center visits with a discharge diagnosis of influenza in adults ≥65 years remained stable and was below the previous three-season average for this time. Of note, the query used to capture these data now utilizes discharge diagnoses rather than chief complaints to better capture influenza activity trends in Florida.
Respiratory Syncytial Virus Surveillance

Background

Respiratory syncytial virus (RSV) is a common respiratory virus that usually causes mild, cold-like symptoms. Young children and older adults, especially those with certain underlying health conditions, are at higher risk for severe illness from RSV. Prophylaxis is available for children who qualify. For more information, contact your health care provider.

RSV Surveillance

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 in Florida has important implications for prescribing patterns for initiating prophylaxis to children at high risk for complications from RSV infection. The American Academy of Pediatrics currently recommends pre-approval for prophylactic treatment be made based on state surveillance data. For more information on RSV surveillance systems used in Florida, see the last page of this report.

Florida’s RSV season is longer than the rest of the nation and has distinct regional patterns. The Florida Department of Health established regional RSV seasons based on activity thresholds provided by the Centers for Disease Control and Prevention (see Figure 29). Currently, one of Florida’s five regions is in RSV season.

To learn more about RSV in Florida, please visit: FloridaHealth.gov/RSV.

Week 20 (May 10-16, 2020) Activity Summary

In week 20, RSV activity in children <5 years slightly increased but remained below levels observed at this time in previous seasons.

No new RSV-associated outbreaks were reported in week 20. A total of 11 RSV-associated outbreaks have been reported since week 30, 2019 (beginning on July 27, 2019).

Figure 30: In week 20, the percent of emergency department and urgent care center visits for RSV among children <5 years slightly increased but remained below levels observed at this time in previous seasons.

*The overall trend displayed in Figure 30 has been validated through review of hospital discharge data collected by the Agency for Health Care Administration.

Figure 29 shows Florida’s RSV regional season breakdown. Regions that are currently in RSV season are marked with pink stars.
RSV Surveillance

Figure 31: In week 20, the percent of specimens testing positive for RSV decreased. Levels were below those observed at this time in previous seasons.

Figure 31 shows the percent of specimens testing positive for respiratory syncytial virus (RSV), as reported by hospital laboratories (n=5), week 30, 2016 to week 20, 2020.

Summary of RSV-Associated Outbreaks:
In week 20, no new RSV-associated outbreaks were reported. Since week 30, 2019, 11 RSV-associated outbreaks have been reported.

RSV-Associated Outbreaks in Week 20:
0 Outbreaks

Figure 32: In week 20, no new RSV-associated outbreaks were reported. Since week 30, outbreaks have been reported in Florida’s southeast, central, and northwest regions.*

Figure 32 shows a summary of RSV-associated outbreaks by region* as reported by county health departments in Merlin, week 30, 2019 to week 20, 2020.

*Regions defined in figure 29.

Figure 33: In week 20, no new RSV-associated outbreaks were reported. The majority of outbreaks reported since week 30 have been reported in facilities serving children.

Figure 33 shows the number of RSV-associated outbreaks by setting and week as reported by county health departments in Merlin, week 30, 2019 to week 20, 2020.
Other Respiratory Virus Surveillance

**Figure 34** shows the number of unique times a pathogen was associated with a respiratory outbreak for outbreaks reported from week 30, 2019 to week 20, 2020.

*Data shown in figures 34-38 include results for specimens submitted by Acute Respiratory Infection Epidemiology and Surveillance Program (ARIES) providers (n=4) as reported by BPHL.

**Results are organized by week based on "lab event date" (defined as the earliest of the following dates associated with testing at the laboratory: date specimen collected, date received by the laboratory, date reported, or date inserted)."
## Summary of Notable Outbreaks

### Table 2: Summary of Notable* Influenza-Associated, Respiratory Syncytial Virus (RSV)-Associated, and Influenza-like Illness (ILI) Outbreaks Reported in Week 20, 2020

<table>
<thead>
<tr>
<th>Setting</th>
<th>County</th>
<th>Number of Cases</th>
<th>Number of Cases Hospitalized</th>
<th>Number of Cases Died</th>
<th>Outbreak Etiology</th>
<th>Control Measures Recommended to Facility Leadership</th>
<th>Investigation Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

No notable outbreaks were reported in week 20, 2020.

*For the purposes of this report, notable outbreaks are defined as influenza-associated, RSV-associated, or ILI outbreaks with two or more hospitalizations, one or more deaths, or 30 or more cases. For more information on how outbreaks are defined, see page 16.*
### Summary of Included Surveillance Systems

**ESSENCE-FL Syndromic Surveillance and Vital Statistics Portal** Data source for figures 1, 4, 16-24, 27, 28, 30

Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE-FL) measures trends in influenza and flu-related 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=375) electronically transmit visit data into ESSENCE-FL daily or hourly.

For statewide and regional figures, percentages are calculated as the proportion of ED and UCC visits to participating facilities that include the words “influenza” or “flu” in the discharge diagnoses (with certain exceptions).

For pneumonia and influenza (P&I) mortality 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. Deaths counts are aggregated and presented by date of 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.

For RSV mortality surveillance, death record literals are queried using a free-text query that searches for references to RSV on death certificates. Any mention of RSV, syncytial, and bronchiolitis in the death certificate literals, with certain exceptions, is counted as a RSV death. These deaths are also investigated to ensure they meet case definition.

**Florida ILINet** Data source for figures 2 and 3

ILINet is a nationwide surveillance system composed of sentinel providers, predominately outpatient health care providers. Florida has 118 sentinel providers enrolled in ILINet who submit weekly influenza-like illness (ILI) and total visit counts, as well as submit ILI specimens to the Bureau of Public Health Laboratories for virologic surveillance. For health care providers interested in enrolling in ILINet, contact your local county health department.

ILINet is also used as a portal in which the Florida Department of Health reports Florida's geographic spread of influenza each week to the Centers for Disease Control and Prevention (CDC). Geographic spread is not an indication of influenza severity. Geographic spread can be reported as sporadic, local, regional, or widespread.

- **Sporadic:** small numbers of laboratory-confirmed influenza or a single laboratory-confirmed influenza has been reported but there is no increase in cases of ILI
- **Local:** outbreaks of influenza or increases in ILI and recent laboratory-confirmed influenza in at least two but less than half the regions of the state
- **Regional:** outbreaks of influenza or increases in ILI and recent laboratory-confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions
- **Widespread:** outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state.

**County Influenza Activity in EpiGateway** Data source for figure 5 and 6

County health department (CHD) epidemiologists report their county's influenza and ILI surveillance data weekly into The Florida Department of Health’s EpiGateway website. Data from these reports is used to classify influenza activity as: no activity, mild, moderate, or elevated. Setting-specific influenza activity and influenza trend information is also reported by CHDs as available. EpiGateway data provided by CHDs creates a county-by-county breakdown of influenza and ILI activity around the state.

**Laboratory Viral Respiratory Surveillance** Data source for figures 7 and 31

The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a CDC surveillance system that captures on eight commonly circulating respiratory viruses as reported by participating laboratories in Florida. NREVSS data are combined with validated electronic laboratory data from Florida laboratories that submit RSV laboratory results via electronic laboratory reporting. Together, this information is used to monitor the temporal and geographic patterns of these viruses.

**Outbreak Reporting in Merlin** Data source for figures 8-13, 32-34; tables 1 and 2

Outbreak investigations are tracked in Merlin (Florida’s reportable disease surveillance system) by investigating county health departments. Outbreak reports include implicated viruses or bacteria, the outbreak setting, and recommendations made to mitigate the spread of disease (among other data elements). All outbreak data are considered preliminary and subject to change. As such, outbreak counts may increase or decrease as additional information is received.

- **ILI outbreaks in facilities serving adults aged ≥65 years** (assisted living facilities, nursing facilities, and long-term care facilities) are defined as two or more individuals with ILI (fever and cough or fever and sore throat in the absence of positive laboratory results). ILI outbreaks in facilities serving children (primary/secondary schools and child daycares) are defined as three or more epidemiologically linked individuals with ILI.
- **Influenza-associated outbreaks in facilities serving adults aged ≥65 years** are defined as two or more individuals with respiratory symptoms, where at least one individual tests positive for influenza. Influenza-associated outbreaks in facilities serving children are defined as three or more epidemiologically linked individuals with respiratory symptoms, where at least one individual tests positive for influenza. Testing may be conducted by the Bureau of Public Health Laboratories (BPHL), commercial laboratories, hospitals, or private health care providers.

Continued on next page.
RSV-associated outbreaks in facilities serving adults aged ≥65 years are defined as two or more individuals with respiratory symptoms, where at least one individual tests positive for RSV. RSV-associated outbreaks in facilities serving children are defined as three or more epidemiologically linked individuals with respiratory symptoms, where at least one individual tests positive for RSV. Testing may be conducted by BPHL, commercial laboratories, hospitals, or private health care providers.

- Notable outbreaks include influenza-associated, RSV-associated, or ILI outbreaks in any setting with 30 or more cases, two or more hospitalized cases, or one or more cases who died.
- Household clusters are not counted as outbreaks.

Bureau of Public Health Laboratories (BPHL) Data source for figures 14, 15, and 35-38.

BPHL performs testing and subtyping on surveillance specimens from sentinel providers, outbreak investigations, patients with severe or unusual influenza presentations, and medical examiners. Sentinel providers include both ILINet and Acute Respiratory Infection Epidemiology and Surveillance Program (ARIES) providers. Some laboratories also routinely submit pre-screened influenza-positive specimens for testing at BPHL for surveillance purposes.

Case-Based Influenza Surveillance Data source for figures 25 and 26

Death in a child whose laboratory-confirmed influenza infection has been identified as a contributing to the child’s death is a reportable condition in Florida. Influenza-associated pediatric deaths are documented by county health departments in Merlin.

In addition, an individual of any age suspected as being infected with non-seasonal or pandemic influenza A is reportable condition in Florida. Such cases are referred to as cases of ‘novel influenza A.’ Novel influenza A cases are documented by county health departments in Merlin.

For more information about reportable diseases and conditions, please visit FloridaHealth.gov/DiseaseReporting.