Week 43 influenza & influenza-like illness (ILI) activity summary:

During week 43, influenza and ILI activity remained at low levels across the state.

Influenza seasons vary in timing, severity, and duration. It is not possible to predict what the 2021–22 influenza season will be like in Florida.

Annual vaccination is the best way to protect yourself and your loved ones from influenza and its potentially severe complications. Now is the perfect time to get vaccinated. The flu vaccine may be given at the same time as the COVID-19 vaccine (www.cdc.gov/vaccines/pandemic-guidance/index.html).

During the last four weeks, the percent of influenza-positive laboratory results remained low. It is still too early to say what strain will predominate during the 2021–22 influenza season. There was no predominant strain detected in Florida for the 2020–21 influenza season.

Likewise, the percent of emergency department and urgent care center visits with discharge diagnoses that indicate influenza infection remained low in recent weeks.

No new influenza-associated pediatric deaths were reported in week 43.

The Centers for Disease Control and Prevention recommends antiviral treatment be initiated as soon as possible for people with confirmed or suspected influenza who are at higher risk for complications (children <2 years, adults ≥65 years, pregnant people, and people with underlying medical condition). Treatment should be administered within 48 hours of illness onset. For more information, contact your health care provider.

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 since March 2020, along with changes in the reasons for seeking care at these facilities.

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 is also conducted to identify any unusually severe presentations of influenza, detect outbreaks and determine the onset, peak and wane of the influenza season to assist with influenza prevention, particularly in high-risk populations like the very young, adults aged ≥65 years and pregnant women.

The influenza reporting year is defined by standard reporting weeks outlined by the Centers for Disease Control and Prevention, where every year has 52 or 53 reporting weeks. Increased surveillance for influenza in Florida for the 2021–22 season began in week 40 (starting on October 3, 2021) and will extend through week 20 (ending May 21, 2022). This report is produced by the Florida Department of Health on a weekly basis during the regular influenza season and an abbreviated report is published on a biweekly basis during the summer months.

Surveillance case definitions for ILI vary slightly across surveillance systems. For more information on Florida’s influenza surveillance systems and associated case definitions, see last two pages of the report.

**County Influenza Activity**

Figure 1: Most counties reported no activity or mild activity for week 42. One county reported moderate activity.

Figure 2: Most counties reported activity at a plateau for week 43. Six counties reported decreasing activity, and eight counties reported increasing activity.
Statewide Activity: Influenza

Figure 3: In week 43, the percent of emergency department visits with a discharge diagnosis of influenza statewide slightly increased and was below the previous three-season activity for this time.

Figure 4: In week 43, 60% of emergency department visits with a discharge diagnosis of influenza statewide were in those who have a reported race of white, 22% of visits were in those who have a reported race of black or African American and 18% were in an unknown or other* racial category.

Figure 5: In week 43, 50% of emergency department visits with a discharge diagnosis of influenza statewide were in those who have a reported ethnicity of not Hispanic or Latino, 25% of visits were in those who have a reported ethnicity of Hispanic or Latino, and 25% were in an unknown ethnicity.

**Of note, influenza may not be laboratory-confirmed for all the visits included in this query.

*Race and ethnicity categories are mapped from data submitted by facilities participating in ESSENCE-FL. Individual facilities have varying practices for collecting and storing race and ethnicity values, which may impact the data displayed.
Statewide Activity: Influenza and Influenza-like-illness

Figure 6: In week 43, the percent of emergency department and urgent care center visits for ILI statewide remained stable. Levels were above those observed at this time in previous seasons.

Figure 7: ILI has previously been used to represent influenza activity, but now is important to view in the context of diagnoses for common viral respiratory pathogens. In week 43, the number of visits with a discharge diagnosis of influenza-like illness (ILI) was above visits with other viral respiratory related diagnoses (influenza, Coronavirus Disease 2019 (COVID-19), respiratory syncytial virus (RSV)).

Figure 8: In week 41 (ending 10/16/21), the number of pneumonia and influenza deaths identified statewide decreased slightly and was below levels observed at this time in previous seasons. Of note, the query used to capture these data excludes pneumonia associated with COVID-19 to better capture influenza death trends in Florida.

*For more information on the use of ESSENCE-FL for viral respiratory disease surveillance, see page 16.
**For more information on RSV surveillance, see page 12.
Statewide Activity: Influenza-like illness

Figure 9: In week 43, the percent of patients with ILI reported by ILINet providers statewide increased and was above levels observed during previous seasons.

Figure 9 shows the percent of patients with influenza-like illness (ILI) reported statewide by ILINet providers (n=353), week 40, 2018 to week 43, 2021.

For ILINet, ILI is defined as a fever ≥100°F in conjunction with sore throat or cough. This definition was updated starting with the 2021–22 season which impacts comparisons between season.

Circulating Viral Respiratory Pathogens

Figure 10: In week 43, the percent of specimens testing positive for rhinovirus decreased and was higher than other respiratory viruses under surveillance (including influenza). This figure may change as additional data are received.

Figure 10 shows the 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=4), week 30, 2021 to week 43, 2021.
Influenza and Influenza-like-illness Outbreaks

Week 43 Outbreaks at a Glance:

Number Reported: 0 Outbreaks

Influenza-Associated: 0 Outbreaks

Severe Outcomes*: 0 Outbreaks

Outbreak Summary:

No ILI or influenza-associated outbreaks were reported in week 43.

To date, no outbreak has had specimens collected for influenza testing this season.

Severe outcomes* (hospitalizations or deaths) were not reported in the outbreak reported so far this season.

During the previous season, minimal outbreaks were reported overall.

Figure 11 shows reported influenza or ILI outbreaks by county. Counties with outbreaks reported in week 43 are outlined in bold.

Figure 12: In week 43, no outbreaks were reported.

Figure 13: As of week 43, no outbreaks reported so far this season were influenza-associated.

Figure 13 shows the total number of outbreaks and the number of influenza-associated outbreaks as reported in Merlin by county health departments for the 2021–22 season as of week 43, 2021. For more information on how ILI and influenza-associated outbreaks are defined, see page 16.

*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 Influenza-like-illness Outbreaks

Outbreaks with COVID-19 identified: 0 Outbreaks

Summary of Outbreaks with Influenza and COVID-19 identified:
*Cocirculation is defined at the outbreak level. To meet criteria, during the outbreak period at least one person must test positive for influenza and at least one person must test positive for COVID-19, the disease caused by the virus SARS-CoV-2.

Figure 14: In week 43, no outbreaks were reported with influenza and SARS-CoV-2 cocirculating.

Figure 14 shows the number of influenza and COVID-19 associated outbreaks by week as reported in Merlin by county health departments, week 40, 2021 to week 43, 2021.

Table 1: Summary of Influenza or ILI Outbreaks Reported During the 2021–22 Season by Setting

<table>
<thead>
<tr>
<th>Setting</th>
<th>Number of Outbreaks (Percent of Outbreaks)</th>
<th>Number ILI or Influenza-Associated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary or 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>Child daycares</td>
<td>1 (100.0%)</td>
<td>0 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 ILI outbreak</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>0 (0.0%)</td>
<td>0 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 ILI outbreaks</td>
</tr>
<tr>
<td>Nursing facilities</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>Other long-term care facilities</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>0 (0.0%)</td>
<td>0 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 ILI outbreaks</td>
</tr>
<tr>
<td>Additional facility types</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>Total</td>
<td>1 (100.0%)</td>
<td>0 influenza-associated outbreaks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 ILI outbreaks</td>
</tr>
</tbody>
</table>
Laboratory Surveillance

Figure 15: In week 43, two specimens tested positive for influenza.

Figure 16: Since week 30, 2021 all positive specimens tested positive for influenza A (H3) or influenza A unspecified. There is not a predominant subtype detected so far this season. During the previous influenza season (2020-2021), no predominant influenza subtype was detected due to low volume of positive results.

*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.
Figures 17–23 show the percent of emergency department visits with discharge diagnoses that indicate influenza infection at ESSENCE-FL participating facilities (n=309) for the current season from week 40, 2021 and the previous three seasons (2020–21, 2019–20, and 2018–19). Data are organized by region (see Figure 24).

Figure 17: In **region 1**, **influenza activity remained stable** during week 43 and was below the previous three-seasons for this time.

Figure 18: In **region 2**, **influenza activity decreased slightly** during week 43 and was within the previous three-seasons for this time.

Figure 19: In **region 3**, **influenza activity remained stable** during week 43 and was below the previous three-seasons for this time.

Figure 20: In **region 4**, **influenza activity remained stable** during week 43 and was below the previous three-seasons for this time.

Figure 21: In **region 5**, **influenza activity remained stable** during week 43 and was below the previous three-seasons for this time.

Figure 22: In **region 6**, **influenza activity remained stable** during week 43 and was below the previous three-seasons for this time.

Figure 23: In **region 7**, **influenza activity remained stable** during week 43 and was below the previous three-seasons for this time.

Figure 24 shows emergency departments and free-standing emergency departments and reporting data to ESSENCE-FL (n=309) with regions outlined in bold.
At-Risk Populations

Children Aged <18 Years

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 25: In week 43, the percent of emergency department visits with a discharge diagnosis of influenza in children <18 years remained stable and was below the previous three-season average for this time.

In week 43, no new influenza-associated pediatric deaths were reported. No influenza-associated pediatric deaths have been reported so far this season.

**Figure 25** shows the percent visits with discharge diagnoses that indicate influenza infection among children <18 years at emergency departments, as reported into ESSENCE-FL, for the current season (week 40, 2021 to week 43, 2021) and the previous three seasons (2020–21, 2019–20, and 2018–19).

Figures 26–27: In week 43, no new influenza-associated pediatric deaths were reported. No influenza-associated pediatric deaths have been reported so far this season.

Influenza vaccination is recommended as long as influenza viruses are circulating, even in March or later.

Children, especially those with certain health conditions are at increased risk of severe complications from influenza infection. Influenza vaccination has been shown to reduce a child’s likelihood of dying from influenza by up to 60%. For more information, please visit: www.cdc.gov/media/releases/2017/p0413-flu-vaccine.html.

*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 2021–22 recommendations, please visit: www.cdc.gov/mmwr/volumes/70/rr/rr7005a1.htm*
**Pregnant People**

Influenza is five times more likely to cause severe illness in pregnant people (even those who are generally healthy) compared to those who are not pregnant. Pregnant people 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 people and their babies, and are recommended at any time during pregnancy.** Vaccination during pregnancy provides antibody protection to infants too young to be vaccinated for influenza and has been shown to protect pregnant people from influenza-associated hospitalization and preterm birth. For more information, talk to your health care provider.

Figure 27: In week 43, the number of emergency department visits for influenza among pregnant people decreased and was below levels observed at this time during previous seasons.

*This count underrepresents the true number of pregnant people 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.*

**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 43, the percent of emergency department visits with a discharge diagnosis of influenza in adults ≥65 years decreased and was below the previous three-season average for this time.

*Figure 27 shows the number of visits* to emergency departments with chief complaints of pregnancy and discharge diagnoses that indicate influenza infection, as reported in ESSENCE-FL, week 40, 2018 to week 43, 2021.*
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 26). Currently, all of Florida’s five regions are in RSV season.

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

Week 43 (October 24–30, 2021) Activity Summary

In week 43, RSV activity in children <5 years increased and was below levels observed at this time during typical seasonal activity.

No new RSV-associated outbreaks were reported in week 43. A total of 6 RSV-associated outbreaks have been reported since week 30, 2021 (beginning on July 25, 2021).

Figure 30: In week 43, the percent of emergency department visits for RSV among children <5 years increased and was below levels observed at this time during typical seasonal activity.

*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 31: In week 43, the percent of specimens testing positive for RSV increased slightly. Levels were below those observed at this time during typical seasonal activity.

RSV Surveillance

RSV-associated outbreaks in Week 43:

0 Outbreaks

Figure 32: In week 43, no new RSV-associated outbreaks were reported. The majority of outbreaks reported since week 30 have been reported in facilities serving children.

Summary of RSV-associated outbreaks:

Since week 30, 2021, 6 RSV-associated outbreaks have been reported. For RSV outbreak definitions, see page 16.

Figure 33: In week 43, no RSV-associated outbreaks were reported. Since week 30, 6 outbreaks have been reported in Florida’s southeast, central, and north regions.*

*Regions defined in figure 29.
Other Respiratory Virus Surveillance

No unique pathogens identified as of week 43, 2021.

Figure 34 shows the number of unique times a pathogen was associated with a respiratory outbreak for outbreaks reported from week 30, 2021 to week 43, 2021.

- **Figure 35** shows the number of PCR-positive laboratory findings for enterovirus unspecified, enterovirus D68, and rhinovirus by week among specimens submitted to the Bureau of Public Health Laboratories (BPHL) for extended respiratory panel testing.

- **Figure 36** shows the number of PCR-positive laboratory findings for parainfluenza 1-3 by week among specimens submitted to BPHL for extended respiratory panel testing.

- **Figure 37** shows the number of PCR-positive laboratory findings for seasonal coronaviruses NL63, HKU1, OC43, and 229E by week among specimens submitted to BPHL for extended respiratory panel testing.

- **Figure 38** shows the number of PCR-positive laboratory findings for human metapneumovirus and adenovirus by week among specimens submitted to BPHL for extended respiratory panel testing.

*Data shown in figures 35–38 include results for specimens submitted by Optional Influenza Surveillance Enhancements Program (OISE) 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).
<table>
<thead>
<tr>
<th>Setting</th>
<th>County</th>
<th>Number of Cases</th>
<th>Number of Cases Died</th>
<th>Number of Cases Hospitalized</th>
<th>Outbreak Etiology</th>
<th>Estimated Percent Vaccinated for Influenza</th>
<th>Investigation Status</th>
</tr>
</thead>
</table>

No notable outbreaks were reported in week 43, 2021.

*For the purposes of this report, notable outbreaks are defined as influenza-associated, RSV-associated or ILI outbreaks with one or more deaths, or 30 or more cases. Outbreaks with COVID-19 identified as an additional etiology to influenza or RSV will also be included here. For more information on how outbreaks are defined, see page 16.*
Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE-FL) is useful for measuring trends in influenza and flu-related visits from emergency departments (ED), free-standing emergency departments (FSEDs) and urgent care clinics (UCs). CDC developed query.


Florida ILINet Data source for figure 9

ILI: Chief complaints that include the words “influenza” or “flu.” Also searches for the words “fever” and (“cough” or “sore throat”). Defined syndrome within ESSENCE-FL.

Influenza: Discharge diagnosis history that includes “influenza” or influenza related ICD-10 codes (www.icd10data.com/). Includes exclusions for vaccination, parainfluenza, and haemophilus influenzae. Florida developed query.

RSV: Discharge diagnosis history that includes “RSV,” “bronchiolitis” or “syncytiat” or RSV related ICD-10 codes. Florida developed query.

COVID-19: Discharge diagnosis that includes COVID-19 related ICD-10 codes. CDC developed query.

County Influenza Activity in EpiGateway Data source for figures 1 and 2

Counties report their influenza and ILI surveillance data weekly into The Florida Department of Health’s EpiGateway website. Data from these reports is used to track 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 by CHDs creates a county-by-county breakdown of influenza activity in the state.

Laboratory Viral Respiratory Surveillance Data source for figures 10 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 11–14, 32–34; table 1 and 2

Outbreak investigations are tracked in Merlin (Florida’s reportable disease surveillance system) through outbreak reports. 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.
- 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, or one or more cases who died. Outbreaks with COVID-19 identified as an additional etiology to influenza or RSV are also included as notable.
- Household clusters are not counted as outbreaks.

Continued on next page.
Summary of Included Surveillance Systems Continued


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 26 and 27

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 CHDs 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 CHDs in Merlin.

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