Florida FLU REVIEW 2016-17 Season

Week 19: May 7-13, 2017

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

Summary

- Florida reported sporadic activity to the Centers of Disease Control and Prevention (CDC) in week 19.
- The influenza season is coming to a close. Influenza and ILI activity levels statewide have nearly returned to summer levels.
- In week 19, influenza activity in Florida decreased. Statewide, influenza activity this season peaked in week 8 (late February). Influenza activity in South Florida peaked earlier than the rest of the state in week 52 (late December).
- Statewide, the percent of emergency department (ED) and urgent care center (UCC) visits for ILI increased but was similar to levels observed in previous seasons at this time.
- Respiratory syncytial virus (RSV) activity in children <5 years decreased slightly but remained above levels observed in previous seasons at this time (see page 12).
- In week 18, 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 19, no influenza-associated pediatric deaths were reported.
 - Ten influenza-associated pediatric deaths have been reported so far this season in Florida. This is the largest number of deaths to be reported since the 2012-13 season. Years in which influenza A (H3) viruses predominate have been associated with more severe illness, particularly in young children.
- Fifty counties reported mild influenza activity, five counties reported moderate influenza activity, and 12 counties reported no influenza activity.
- One outbreak of influenza B was reported. A total of 149 outbreaks of influenza or ILI have been reported so far this season. This is the largest number of outbreaks reported in the last seven seasons.
- In recent weeks, the percent of specimens testing positive for influenza B increased. This trend has also been observed nationally. This late-season circulation of influenza B is expected. 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:

- According to the CDC, ILI activity decreased and was below the national baseline for the fourth week in a row. The majority of states, including Florida, reported sporadic activity in week 18.
- In recent weeks, influenza B viruses have been the most frequently identified virus type by public health laboratories across the nation.
- One human infection with novel influenza A virus was reported in Texas. The individual was infected with an influenza A (H3N2) variant (H3N2v) virus. The individual became ill in February 2017 but has since fully recovered. Swine contact in the week preceding illness onset was reported. This is the first human influenza A (H3N2v) virus infection in the United States in 2017.
- Avian influenza A (H7N9) was recently identified in **chickens** in Tennessee, Alabama, and Kentucky. Avian influenza A (H7) was also recently identified in **chickens** in Georgia.
 - These strains of H7N9 are **<u>not</u>** the same as the strain circulating in China.
 - These are the first identifications of H7N9 in domestic poultry in the U.S. in 2017.
- Avian influenza A (H5N2) was also recently identified in **turkeys** in Wisconsin.
- This is the first identification of H5N2 in domestic poultry in the U.S. in 2017.
 No avian influenza has been identified in Florida birds or humans so far in 2017.
 - To learn more about HPAI, please visit: www.floridahealth.gov/novelflu.

Weekly State Influenza Activity



For more information see

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Predominately Circulating Strain



Influenza and ILI Outbreaks Reported as of 5/13/2017



For more information see page 5 ►

County Influenza Activity



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Weekly State Influenza Activity Reporting

Below is the state influenza activity level reported to CDC each week since the 2012-13 influenza season. Florida reported sporadic influenza activity for week 19.



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. These activities are
 particularly important in the summer months when overall ILI activity is lower in order to identify potential changes in circulating influenza strains.

Note: Surveillance case definitions for influenza-like illness (ILI) vary across surveillance systems. For more information on influenza surveillance systems and associated case definitions used in Florida, see page 14

Statewide ILI Visits



The ESSENCE-FL ILI syndrome is composed of chief complaints that include the words "influenza" or "flu," or chief complaints that include the words "fever" and "cough," or "fever" and "sore throat." For more information on ESSENCE-FL, see page 10.

Statewide ILI Outpatient Visits and P&I Deaths

2016-17

2015-16

2013-14

Visits for ILI to Outpatient Providers by Flu Season ILI = influenza-like illness

Figure 2 shows the percent of visits for ILI reported by ILINet outpatient providers statewide (n=43), week 40, 2013 to week 19, 2017. For ILINet, influenza-like illness (ILI) is defined as a fever ≥100°F AND sore throat and/or cough in the absence of another known cause.

In week 19, the percent of visits for ILI reported by ILINet outpatient providers increased but was slightly below levels seen in previous seasons at this time.

250

200

150

100

50

0



2014-15



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 19,2017.

As of week 18 (ending May 6, 2017), 7,561 P&I deaths were 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.

40 42 44 46 48 50 52 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39

Week

For week 18 (ending May 6 2017), 185 preliminary estimated P&I deaths were reported.

The upper bound of the 95% confidence interval for prediction was 239 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 19,2017.

County Influenza and ILI Activity Maps

County influenza activity data are reported by county health departments through EpiGateway on a weekly basis. Information is used to determine county activity and includes laboratory results, outbreak reports, and ILI activity. The figures below reflect a county health department's assessment of influenza activity within their county. For week 19, four counties reported increasing activity, 22 counties reported activity at a plateau, and 41 counties reported decreasing activity.



As of 9:30 a.m. May 17, 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



ILI Activity and Outbreaks by Setting

Reported Influenza and ILI Outbreaks ILI = influenza-like illness

Map 3 shows influenza and ILI outbreaks by county for week 40, 2016 through week 19, 2017.

In week 19, one outbreak of influenza B was reported in Merlin. As of week 19, 149 outbreaks of influenza or ILI have been reported in the 2016-17 influenza season. This is the largest number of outbreaks reported in the past seven seasons.

For more information on influenza and ILI outbreaks reported in week 19 and updated information on influenza and ILI outbreaks reported in week 19, see page 6. **Data presented on outbreaks are preliminary and subject to change as outbreak investigations progress.**



Table 1:	Sum	mary of	Florida	Influenza	and ILI Ou	tbreaks l	oy Setti	ng, Week 4	10, 2016 th	rough Week 19,	2017
Setting	Total	А (НЗ)	A 2009 (H1N1)	A Unsubtyped	A & B Unsubtyped	B Yamagata	B Victoria	B Unsubtyped	Influenza Unspecified	Other respiratory viruses	Currently unknown pathogen
Schools	25	2	-	11	1	1	-	2	1	-	7
Daycares	11	-	-	3	1	1	-	1	1	1-RSV	3
Jails & prisons	11	3	-	2	-	-	1	-	1	-	4
Mental health facilities	1	-	-	-	-	-	-	-	-	-	1
Nursing homes & long-term care facilities	96	14	-	37	2	1	-	3	3	2-RSV 1-A (H3)/rhinovirus	33
Health care facilities	3	1	-	1	-	-	-	-	-	-	1
Other	2	1	-	1	-	-	-	-		-	-
Total	149	21	0	55	4	3	1	6	6	4	49



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

In week 19, one outbreak of influenza B was reported.

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 nursing homes and long-term care facilities.

Reported Influenza and ILI Outbreaks

ILI = influenza-like illness

In week 19, one outbreak was reported into Merlin.

St. Lucie County:

• An elementary school reported 10 students with ILI. A specimen tested locally was positive for influenza B. No specimens have been available for testing at BPHL thus far. Vaccination status for the 2016-17 influenza season for students and faculty is currently unknown. Infection control measures were reviewed with facility leadership. The investigation is ongoing.

In week 18 (ending May 6, 2017), one outbreak was reported into Merlin. The outbreak was updated in week 19.

Pinellas County:

• A nursing home reported 11 residents and five staff members with ILI. Two individuals were hospitalized. Specimens collected from four residents tested positive for influenza A by rapid antigen testing. Additional specimens were collected for testing at BPHL. Those results are pending. The facility estimated that 70 residents were vaccinated for the 2016-17 influenza season. Vaccination status for the 2016-17 influenza season for staff members is currently unknown. Infection control measures were reviewed with facility leadership. This investigation is ongoing.

Update: Five additional residents with ILI were identified.

Laboratory Surveillance



Figures 9 and 10 use BPHL viral surveillance data.

Figure 9 shows the number of influenzapositive specimens tested by subtype and lab event date.*

The most common influenza subtype detected at BPHL statewide for the 2016-17 influenza season has been influenza A (H3). Seasons in which A (H3) viruses predominate are associated with more severe illness in young children and adults ≥65 years old.

In recent weeks, the percent of specimens testing positive for influenza B viruses at BPHL increased. This change has also been observed nationally. This late season circulation of influenza B is expected.

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

In week 19, the percent of specimens testing positive for influenza increased slightly but was below levels observed in previous seasons at this time.

Table 2: Bureau of Public Health Laboratories (BPHL) Viral Surveillance by Lab Event Date*Reported by 10:00 a.m. May 17, 2017

Influenza Type	Current Week 19	Previous Week 18	Current 2016-17 Season
Total Specimens Tested	26	38	1,808
Influenza positive specimens (% of total specimen tested)	6 (28.6%)	8 (25.0%)	864 (47.1%)
Influenza A 2009 (H1N1) (% of influenza positives)	-	-	10 (1.2%)
Influenza A (H3) (% of influenza positives)	-	4 (50.0%)	623 (72.1%)
Influenza A not yet subtyped (% of influenza positives)	2 (33.3%)	-	22 (2.5%)
Influenza A inconclusive** (% of influenza positives)	-	-	1 (0.1%)
Influenza B Yamagata (% of influenza positives)	-	1 (12.5%)	73 (8.4%)
Influenza B Victoria (% of influenza positives)	-	3 (37.5%)	120 (13.9%)
Influenza B not yet subtyped (% of influenza positives)	4 (66.7%)	-	15 (1.7%)

*"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.

For county health departments seeking county-specific laboratory data, please refer to the Flu Lab Report in Merlin. For instructions on how to use the Flu Lab Report, please see the Guide to Flu Lab Report on the Bureau of Epidemiology website: www.floridahealth.gov/diseases-and-conditions/influenza/_documents/flulabreportguide.pdf

Regional ILI Visits

ED and UCC Visits for ILI by Region

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

Figures 11-17 show the percent of visits for ILI from ED and UCC chief complaints for ESSENCE-FL participating facilities (n=297), by ESSENCE-FL Regional Domestic Security Task Force (RDSTF) regions (see map 4) from week 40, 2013 to week 19, 2017*. **In week 19, the percent of ED**

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









*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.







Region 2

Region 6

Region 7

Region 3

Region 5

Map 4

Emergency Departments (EDs) and
Urgent Care Centers (UCCs) ReportingRegion 4Data to ESSENCE-FL by Regional
Domestic Security Task Force (RDSTF),
May 17, 2017 (n=297)Region 4

Region 1

- Urgent Care Centers
- Emergency Departments

Age Groups: ILI Visits and P&I Deaths

0 to 4 years old

5 to 24 years old



≥65 years old

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ED and UCC Visits for ILI by Age Group ED = emergency department, UCC = urgent care center, ILI = influenza-like illness

Figure 18 shows the percent of visits for ILI from ED and UCC chief complaints by age group for ESSENCE-FL participating facilities (n=297), week 40, 2013 to week 19, 2017.

In week 19, ED and UCC visits for ILI increased or remained the same in all age groups. Levels were above those observed in previous seasons at this time in the 5-24 and ≥65 years old age groups. Levels were similar to those observed in previous seasons at this time in all other age groups.





Figure 19 shows the number of visits for ILI reported by ILINet outpatient providers statewide (n=42) by age group, week 40, 2013 to week 19, 2017.

In week 19, the number of visits for ILI increased in the 25-64 and ≥65 age groups and decreased in the 0-4 and 5-24 age groups. Levels were below those seen in previous seasons at this time in all age groups.

*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 19,2017.

At-Risk Populations: ILI Visits

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ESSENCE-FL collects data daily from 297 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" and "cough," or "fever" and "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.



ED and UCC Visits for ILI by Children ≤18 Years Old ED = emergency department, UCC = urgent care center, ILI = influenza-like illness



Figure 22 shows the percent of ILI visits among all ED and UCC visits for children ≤18 years old, as reported into ESSSENCE-FL, week 40, 2013 to week 19, 2017.

In week 19, the percent of ILI visits among all ED and UCC visits for children ≤18 years old increased and was slightly above levels observed in previous seasons at this time.

ED and UCC Visits for ILI by Adults ≥65 Years Old ED = emergency department, UCC = urgent care center, ILI = influenza-like illness

Figure 23 shows the percent of ILI visits among all ED and UCC visits for adults ≥65 years old, as reported into ESSSENCE-FL, week 40, 2013 to week 19, 2017.

In week 19, the percent of ILI visits among all ED and UCC visits for adults ≥65 years old increased. Levels were slightly above those observed in previous seasons at this time. Seasons where influenza A (H3) predominates have been associated with more severe illness, particularly in adults ≥65 years old.



ILI Activity by Population and Setting Type

ILI Activity by Setting Type ILI = influenza-like illness

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

Figure 24 shows the results of the influenza activity assessment for week 19, 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, 54 counties (83.1%) reported no or minimal influenza or ILI activity. Three counties (4.6%) reported moderate influenza or ILI activity.

In daycare settings, 52 counties (85.2%) reported no or minimal influenza or ILI activity.

Settings for Adults >65 Years Old

In nursing homes, 43 counties (79.6%) reported no or minimal influenza or ILI activity. One county (1.9%) reported moderate influenza or ILI activity.

In retirement homes, 55 counties (85.9%) reported no or minimal influenza or ILI activity.

Settings for Adults 18 to 65 Years Old

In colleges, 45 of 56 counties (80.4%) reported no or minimal influenza or ILI activity.

In businesses, 41 counties (78.8%) reported no or minimal influenza or ILI activity.

In government offices, 34 counties (77.3%) reported no or minimal influenza or ILI activity.

Other Unique Settings

In jails and prisons, 51 counties (85.0%) reported no or minimal influenza or ILI activity.

In health care settings, including rehabilitation facilities and mental health facilities, 58 counties (87.9%) reported no or minimal influenza or ILI activity.

Respiratory Syncytial Virus Surveillance

RSV Activity Summary and Seasonality RSV = respiratory syncytial virus

RSV activity:

- In week 19, the percent of children <5 years old diagnosed with RSV at EDs and UCCs decreased but was above levels observed in previous seasons at this time.
- The percent of specimens testing positive for RSV decreased and was below levels observed in previous seasons at this time.
- To learn more about RSV in Florida, please visit: http://www.floridahealth.gov/rsv.

RSV Seasonality:

- RSV activity in Florida typically peaks in November through January, though activity can vary dramatically by region. According to CDC, the start of RSV season is marked by the first two consecutive weeks during which the average percentage of specimens testing positive for RSV is ≥10%.
- Florida has established regular RSV seasons based on these thresholds.
- Florida's RSV season is longer than the rest of the nation and has distinct regional seasonality. For more information on RSV seasonality in Florida, see the American Academy of Pediatrics' 2015 Red Book.



Map 5

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 back page of this report for more information on RSV surveillance systems used in Florida: page 14 🕨

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

ED = emergency department, UCC = urgent care center, RSV = respiratory syncytial virus



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=297), week 30, 2013 to week 19, 2017.

In week 19, the percent of children presenting to participating EDs and UCCs for care with RSV decreased. Levels were above those observed in previous seasons at this time.





Figure 26 shows the percent of laboratory results testing positive for RSV, as reported by hospital laboratories (n=9), week 30, 2013 to week 19, 2017.

In week 19, the percent of specimens testing positive for RSV decreased and was below levels observed in previous seasons at this time.





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Florida Respiratory Syncytial Virus (RSV)

Regional Season Breakdown

Other Respiratory Virus Surveillance

Statewide activity:

- In week 19, the percent of specimens testing positive for influenza decreased and was similar to levels observed in previous seasons at this time.
- The percent of specimens testing positive for rhinovirus decreased and was similar to levels observed in previous seasons at this time.
- The percent of specimens testing positive for RSV decreased and was below levels observed in previous seasons at this time.

Enterovirus D68 (EV-D68) activity:

- In week 19, no new cases of EV-D68 were identified in Florida. No cases have been identified in Florida since May 2016.
 - Eight cases of EV-D68 were identified in Florida in 2016. These eight cases were identified in different regions of the state and represent the full spectrum of disease. These were 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 19, no outbreaks of RSV, parainfluenza, adenovirus, human metapneumovirus (MPV), rhinovirus, enterovirus, or coronavirus were reported.



Non-Influenza ARIES Laboratory Outpatient Surveillance* ARIES = Acute Respiratory Infection Epidemiology and Surveillance Program

Laboratory Viral Respiratory Surveillance



Figure 28 shows the number of specimens testing positive for 12 common respiratory viruses, as reported by BPHL and ARIES outpatient providers statewide (n=7), week 40, 2015 to week 19,2017.

In week 18 (ending May 6, 2017), specimens submitted by ARIES providers tested positive for rhinovirus, parainfluenza 1, parainfluenza 3, Adenovirus, and human metapneumovirus.



*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 19,2017. Laboratory results for specimens that have not yet been tested in full will be included in future reports.

Florida ILI Surveillance System Summary

Florida ILINet \cdot 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 influenza-like illness (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=297) electronically transmit visit data into ESSENCE-FL daily or hourly.
- For statewide and regional data on ILI, visits are counted as ED or UCC visits to participating facilities that include the words "influenza" or "flu" in patient chief complaints. Chief complaints with the words "fever" and "cough," or "fever" and "sore throat" are also counted as ILI.
- 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 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 sentinel providers, outbreak investigations, patients with severe or unusual influenza presentations, and medical examiners.
- For county-specific laboratory data, please refer to the Flu Lab Report in Merlin. For instructions on how to use the Flu Lab Report, please see the Guide to Flu Lab Report on the Bureau of Epidemiology website at www.floridahealth.gov/diseases-and-conditions/influenza/_documents/flulabreportguide.pdf.

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

• The National Respiratory and Enteric Virus Surveillance System (NREVSS) and Electronic Laboratory Reporting (ELR) collect data from laboratories in Florida on a weekly basis and monitor temporal and geographic patterns of eight commonly circulating respiratory viruses. NREVSS data is collected by the Centers for Disease Control and Prevention (CDC) and 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 seven sentinel providers enrolled in ARIES who submit weekly ILI and ARI (acute respiratory infection) counts, as well as submit ARI and ILI specimens to BPHL for testing.

Case-Based Influenza Surveillance

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