

## Geographic Spread



South Carolina reported **widespread activity** this week. This is the **fifth consecutive** week at widespread activity.

## Influenza Activity



Overall, there was an increase in influenza activity this week.

## Regional Influenza Activity



Increased



Increased



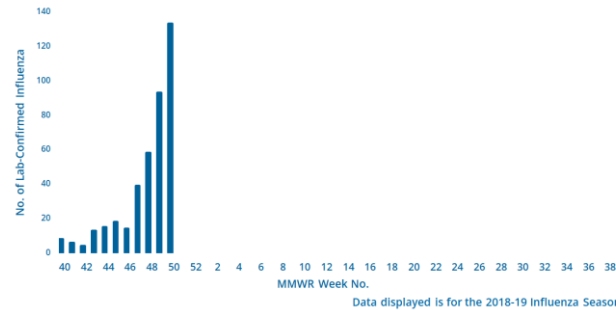
Increased



Increased

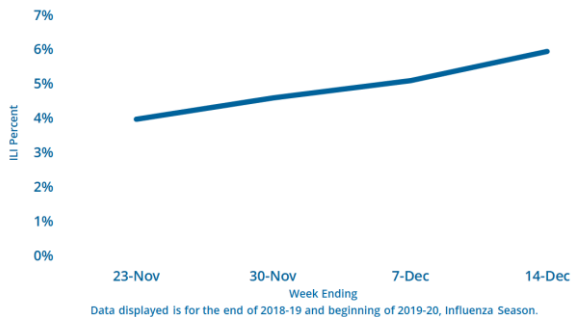
## Virologic Surveillance

This week **133** lab-confirmed tests were reported. In the current flu season, there have been **401** lab-confirmed tests reported.



## Influenza-Like Illness Surveillance

The percent of patient visits to sentinel providers for an influenza-like illness (ILI) was **6.0%**, which is **above** South Carolina's baseline (**3.6%**). The ILI activity level overall was **high**.



## Influenza-Associated Hospitalizations

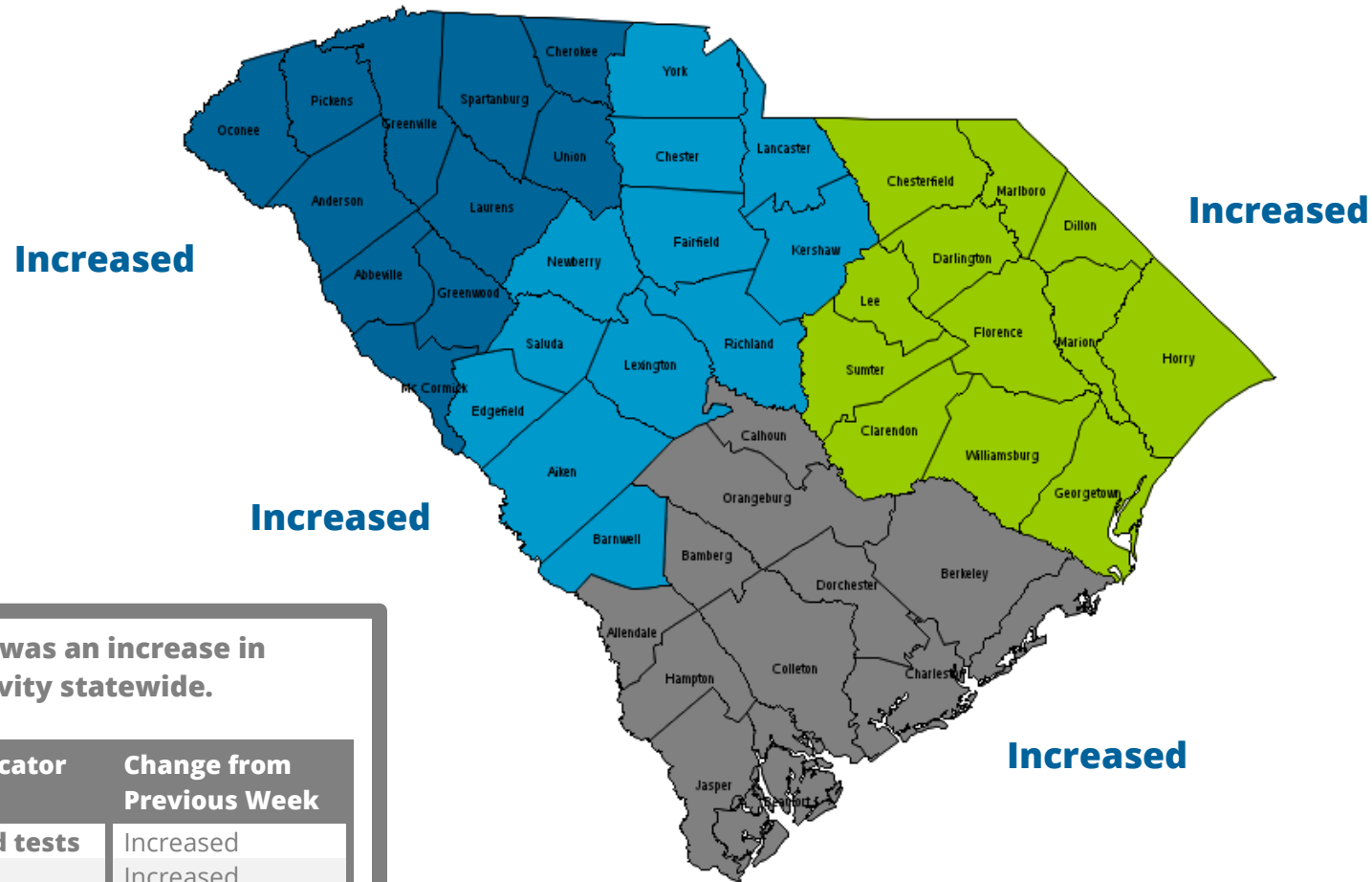
This week **86** influenza-associated hospitalizations were reported by **59** hospitals. The cumulative hospitalization rate is **6.1 per 100,000**. In the current flu season, there have been **311** influenza-associated hospitalizations.

## Influenza-Associated Deaths

This week **2** influenza-associated deaths were reported however, one death occurred during previous weeks. In the current flu season, there have been **10** influenza-associated deaths.

# Influenza Activity\*

In the 4 Public Health Regions, activity showed...



Overall there was an increase in influenza activity statewide.

| Influenza Indicator | Change from Previous Week |
|---------------------|---------------------------|
| Lab-confirmed tests | Increased                 |
| ILI Percent         | Increased                 |
| Hospitalizations    | Increased                 |

\*Indicators for assessing influenza activity include: lab-confirmed tests, ILI percent, and hospitalizations.

# Virologic Surveillance

| Lab-Confirmed Influenza Cases by Influenza Type To Date* |                  |                  |                 |                  |                  |
|--|------------------|------------------|-----------------|------------------|------------------|
| Influenza Type   | No. of Cases (%) |                  |                 |                  | 5 season average |
|  | This Week        | 2019-20          | 2018-19         | 2017-18          |                  |
| <b>Overall</b>   | <b>133</b>       | <b>401</b>       | <b>64</b>       | <b>169</b>       | <b>51</b>        |
| <b>Influenza A</b>                                       | <b>40(30.1)</b>  | <b>151(37.7)</b> | <b>58(90.6)</b> | <b>144(85.2)</b> | <b>67(84.3)</b>  |
| A(H3)  | --               | 10(6.6)          | 6(10.3)         | 47(32.6)         | 28(41.8)         |
| A(H1N1)  | 12(30)           | 47(31.1)         | 15(25.9)        | 7(4.9)           | 5(7.5)           |
| A(NS)*   | 28(70.0)         | 94(62.3)         | 37(63.8)        | 90(62.5)         | 34(50.7)         |
| <b>Influenza B</b>                                       | <b>91(68.4)</b>  | <b>247(61.6)</b> | <b>5(7.8)</b>   | <b>24(14.2)</b>  | <b>11(15.7)</b>  |
| B (Victoria)   | 9(9.8)           | 23(9.3)          | 1(20.0)         | --               | --               |
| B(Yamagata)  | --               | --               | --              | 4(16.7)          | 1(9.1)           |
| B (LND)+   | 82(90.1)         | 224(90.7)        | 4(80.0)         | 20(83.3)         | 10(90.9)         |
| <b>Influenza Virus Co-infection**</b>                    | <b>2(1.5)</b>    | <b>3(0.7)</b>    | <b>1(1.6)</b>   | <b>1(0.6)</b>    | <b>N/A</b>       |

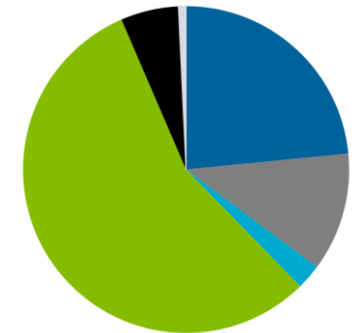
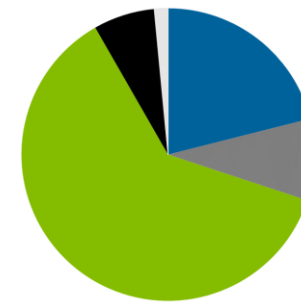
\*Data presented from previous influenza seasons represents the data from that season through the same week as the current season. Nationally, the influenza season begins with MMWR week 40 and ends with MMWR week 39. The 2019-20 influenza season began on September 29, 2019 and will end on September 26, 2020.

\*\*Cases with more than one influenza A subtype in the same sample or influenzas A and B in the same sample simultaneously.

## Laboratory-Confirmed Influenza Cases, by Virus Type

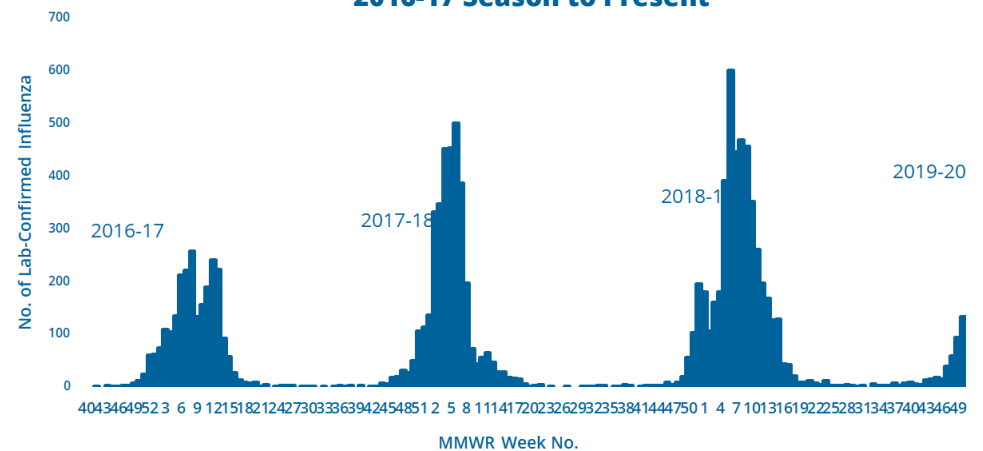
Week ending 12/14

Cumulative



■ A not subtyped ■ A(H1N1) ■ A (H3) ■ B (lineage not determined) ■ B (YAM) ■ B (VIC) ■ Co-infection

## Laboratory-Confirmed Influenza Cases, 2016-17 Season to Present



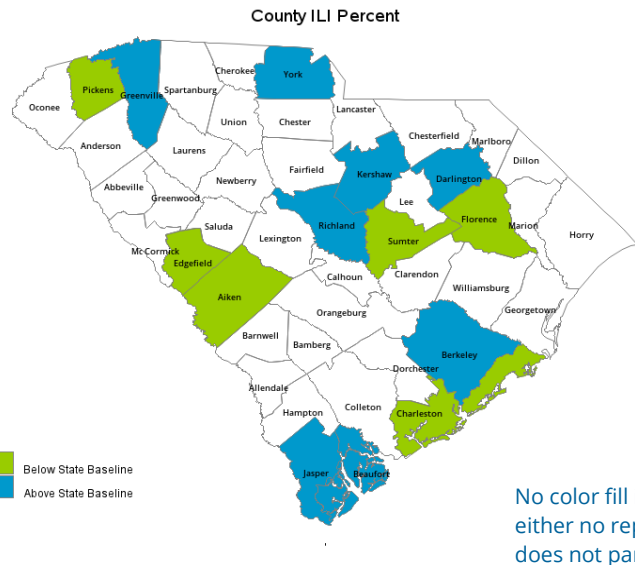
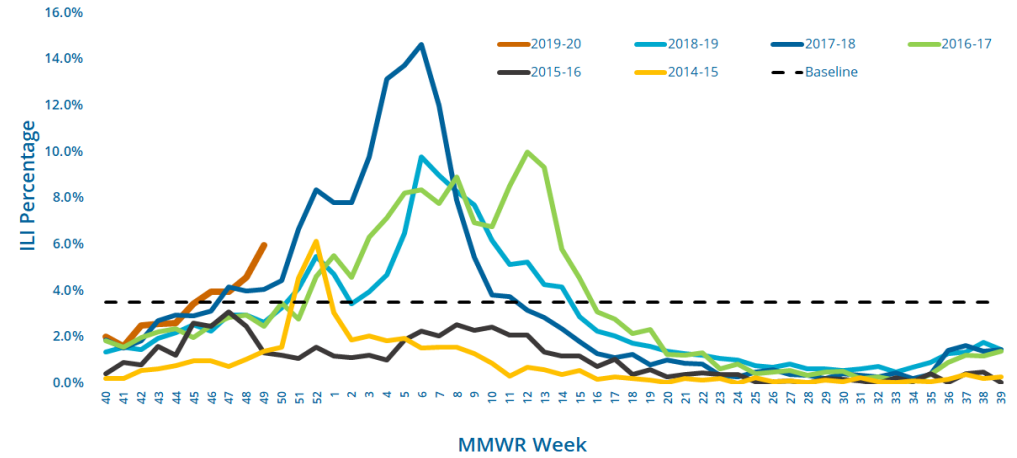
# Influenza-Like Illness Surveillance

This week, the ILI activity level was **high** and **6.0%** of patient visits to SC ILINet providers was attributed to an influenza-like illness. This is **above** the state baseline, **3.6%**.

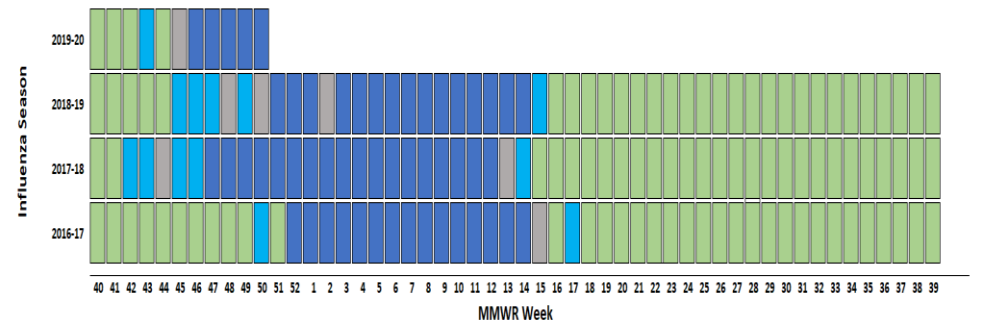
Reports were received from providers in **14** counties, representing all DHEC Public Health regions.

\*\*ILI percentage is dependent upon the number of reporting providers and/or can vary by disease activity or the number of providers submitting reports.\*\*

Percentage of Influenza-like Illness (ILI) Visits Reported by Sentinel Providers for Past and Current Seasons



State ILI Activity Level by MMWR Week, 2016-17 Influenza Season to Present



ILI ACTIVITY LEVELS: **MINIMAL** **LOW** **MODERATE** **HIGH**

# Influenza-Associated Hospitalizations and Deaths

## Influenza-Associated Hospitalizations by Age Group\*

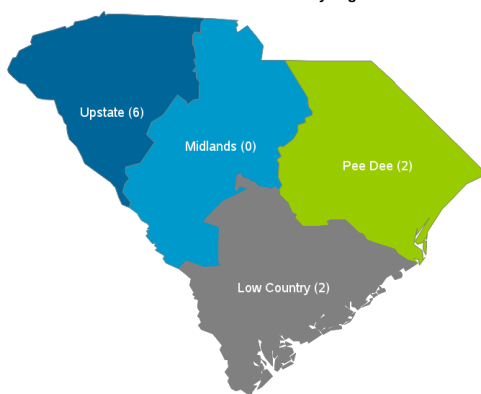
| Influenza Season        | No. of Hospitalizations (Rate) |          |           |            |            |           |
|-------------------------|--------------------------------|----------|-----------|------------|------------|-----------|
|                         | Overall                        | Ages 0-4 | Ages 5-17 | Ages 18-49 | Ages 50-64 | Ages 65+  |
| <b>This Week</b>        | 86(1.7)                        | 5(1.7)   | 12(1.5)   | 24(1.2)    | 20(2.0)    | 25(2.9)   |
| <b>2019-20</b>          | 311(6.1)                       | 26(8.8)  | 22(2.7)   | 66(3.2)    | 82(8.1)    | 115(13.1) |
| <b>2018-19</b>          | 184(3.7)                       | 11(3.7)  | 8(1.0)    | 33(1.6)    | 51(5.1)    | 81(9.4)   |
| <b>2017-18</b>          | 253(5.1)                       | 14(4.8)  | 12(1.5)   | 32(1.6)    | 52(5.2)    | 143(17.2) |
| <b>5 season average</b> | 220(5.0)                       | 17(6.0)  | 13(1.7)   | 35(1.7)    | 51(5.3)    | 104(13.2) |

## Influenza-Associated Deaths by Age Group\*

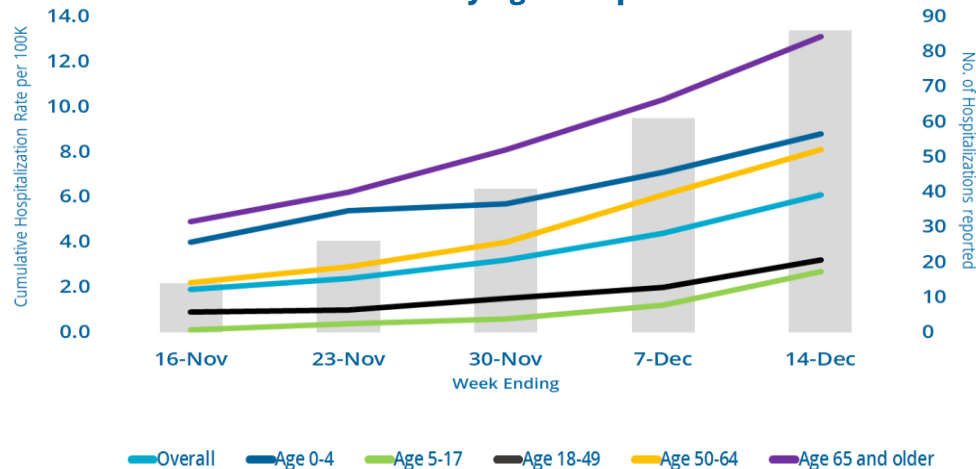
| Influenza Season        | No. of Deaths (Rate) |          |           |            |            |          |
|-------------------------|----------------------|----------|-----------|------------|------------|----------|
|                         | Overall              | Ages 0-4 | Ages 5-17 | Ages 18-49 | Ages 50-64 | Ages 65+ |
| <b>This Week</b>        | 1(0.0)               | --       | --        | 1(0.1)     | --         | --       |
| <b>2019-20</b>          | 10(0.2)              | --       | --        | 1          | 1(0.1)     | 8(0.8)   |
| <b>2018-19</b>          | 14(0.3)              | 1(0.3)   | --        | --         | 5(0.5)     | 8(0.9)   |
| <b>2017-18</b>          | 11(0.2)              | --       | --        | --         | 1(0.1)     | 10(1.2)  |
| <b>5 season average</b> | 8(0.2)               | 0(0.0)   | --        | 0(0.0)     | 2(0.2)     | 6(0.8)   |

\*Data presented from previous influenza seasons represent the data from that season through the same week as the current season. Nationally, the influenza season begins with MMWR week 40 and ends with MMWR week 39. The 2019-20 influenza season began on September 29, 2019 and will end on September 26, 2020.

Influenza-Associated Deaths by Region



## Cumulative Hospitalization Rate by Age Group



## Reported Influenza-Associated Hospitalization, 2016-17 Season to Present

