KEY POINTS

Influenza activity was categorized as **Sporadic** for MMWR Week 20

- Levels of Influenza-like Illness (ILI) activity seen in emergency departments remained the same
  - Of the total emergency room visits, **0.9% were due to ILI**
- Decreased levels of ILI activity reported by outpatient providers
  - Sentinel providers reported **1.1% of patients had ILI**
- Vermont Department of Health Laboratory reported **0 positive flu tests**
- National Respiratory and Enteric Virus Surveillance System reported **0 positive flu tests**
- No outbreaks reported

*Based on CDC’s Activity Estimates Definitions: [www.cdc.gov/flu/weekly/overview.htm](http://www.cdc.gov/flu/weekly/overview.htm)

**VT Flu Geographic Spread**

- No Activity
- **Sporadic**
- Local
- Regional
- Widespread

**FLU SURVEILLANCE SEASON**

**START**
MMWR Week 40
(Week End Date 10/07/17)

**END**
MMWR Week 20
(Week End Date 5/19/18)
Syndromic Surveillance of Influenza-Like Illness (ILI) at Vermont Hospitals, 2017-2018 vs. Historic Data

- Week ending 5/19/2018 (Week 20)

* Note: 2009-2010 flu season excluded
** Note: For the 2017-2018 flu season, VDH switched from using EARS (Early Aberration Reporting System) for syndromic surveillance to using ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics)
Sentinel providers report the number of patients with an ILI seen by their practices each week.

ILI is defined as a measured fever of at least 100° F and cough and/or sore throat, without a known cause other than influenza.

There are 16 medical practices located throughout the state currently partnering with the Health Department as sentinel sites.

Percent of Visits Reported by Vermont Sentinel Providers* with Influenza-like Illness by MMWR Week, 2015/16 – 2017/18 Flu Seasons

*The ILI data are more robust when a higher percentage of provider reports are received. Recent data are provisional due to reporting lags.
Percent of Visits Reported by Vermont Sentinel Providers* with Influenza-like Illness by Age Group by MMWR Week, 2015/16 – 2017/18 Flu Seasons

*The ILI data are more robust when a higher percentage of provider reports are received. Recent data are provisional due to reporting lags.
Percent of Visits Reported by Vermont Sentinel Providers* with Influenza-like Illness by Age Group by MMWR Week 2017/2018 Flu Season

*The ILI data are more robust when a higher percentage of provider reports are received. Recent data are provisional due to reporting lags.
## VDHDL* Current Week (May 13-May 19, 2018)

<table>
<thead>
<tr>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimens Tested</td>
<td>0</td>
</tr>
<tr>
<td>Positive Specimens</td>
<td>0</td>
</tr>
</tbody>
</table>

## VDHDL* 2017-2018 Season Total (Oct 1, 2017-May 19, 2018)

<table>
<thead>
<tr>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimens Tested</td>
<td>373</td>
</tr>
<tr>
<td>Positive Specimens</td>
<td>228</td>
</tr>
</tbody>
</table>

## NREVSS* Current Week (May 13-May 19, 2018)

<table>
<thead>
<tr>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive Specimens</td>
<td>0</td>
</tr>
</tbody>
</table>

## NREVSS* 2017-2018 Season Total (Oct 1, 2017-May 19, 2018)

<table>
<thead>
<tr>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive Specimens</td>
<td>1,699</td>
</tr>
</tbody>
</table>

| Influenza A | 0 | 0% |
| A (2009 H1N1) | 0 | 0% |
| A (H1) | 0 | 0% |
| A (H3) | 0 | 0% |
| A (unsubtyped) | 0 | 0% |
| Influenza B | 0 | 0% |

| Specimens Tested | 42 | 78.1% |
| Positive Specimens | 21 | 11.8% |
| Positive Specimens by Type/Subtype | 1 | 0.6% |
| Influenza A | 156 | 87.6% |
| A (H3) | 50 | 21.9% |

*Laboratory data obtained from VDHDL and from NREVSS may include the same specimens tested for flu. They are not mutually exclusive. Facilities that report to NREVSS may submit a specimen to VDHDL for additional testing, therefore being reported both in NREVSS and VDHDL.
Long-Term Care Facility Outbreaks

- **Number of Outbreaks**: 32
- **Number of Lab Confirmed Outbreaks**: 29

**Outbreak Regions**
- Central: 2
- Northeastern: 2
- Northwestern: 13
- Southeastern: 8
- Southwestern: 7

School Outbreaks

- **Number of Outbreaks**: 20

**Outbreak Regions**
- Central: 2
- Northeastern: 2
- Northwestern: 6
- Southeastern: 1
- Southwestern: 9

Outbreaks at Other Facilities

- **Number of Outbreaks**: 6

**Outbreak Regions**
- Central: 0
- Northeastern: 1
- Northwestern: 2
- Southeastern: 2
- Southwestern: 1

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Suspected outbreaks of ILI should be reported to the health department

MAP OF INFLUENZA SURVEILLANCE REGIONS IN VERMONT

During week 20, influenza activity decreased in the United States. The most frequently identified flu virus type reported by public health laboratories was flu B.
1 influenza-associated pediatric death were reported to CDC during week 20. So far this season, there has been 169 influenza-associated pediatric deaths reported to CDC. **There have been no influenza-associated pediatric deaths reported in Vermont this season.**

Full FluView report can be found here: [https://www.cdc.gov/flu/weekly/index.htm](https://www.cdc.gov/flu/weekly/index.htm)
The proportion of outpatient visits for influenza-like Illness for week 20 was **1.2%** which is **below the national baseline of 2.2%**.

Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2017-2018 and Selected Previous Seasons

Full FluView report can be found here: [https://www.cdc.gov/flu/weekly/index.htm](https://www.cdc.gov/flu/weekly/index.htm)
During week 20, the following ILI activity levels were experienced:

- New York City, the District of Columbia, Puerto Rico and all 50 states experienced minimal ILI activity.

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2017-18 Influenza Season Week 20 ending May 19, 2018

*This map uses the proportion of outpatient visits to health care providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

Data collected in ILINet may disproportionately represent certain populations within a state, and therefore, may not accurately depict the full picture of influenza activity for the whole state.

Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map is based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data are received.

Differences in the data presented here by CDC and independently by some state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete.

Full FluView report can be found here: https://www.cdc.gov/flu/weekly/index.htm
Geographic spread for week 20**:

**No activity** was reported by 4 states.

**Sporadic** activity was reported by D.C., the US Virgin Islands and 37 states.

**Local** activity reported by 7 states.

**Regional** activity was reported by Guam, Puerto Rico, and 1 state.

**Widespread** activity reported by 1 state.

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**Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists**

*This map indicates geographic spread & does not measure the severity of influenza activity.*

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**Based on CDC’s Activity Estimates Definitions:**

[www.cdc.gov/flu/weekly/overview.htm](https://www.cdc.gov/flu/weekly/overview.htm)

Full FluView report can be found here:

[https://www.cdc.gov/flu/weekly/index.htm](https://www.cdc.gov/flu/weekly/index.htm)
Flu Near You is a website where people can anonymously self-report any symptoms they experienced in the past week or if they were healthy. These reports help us track flu both in Vermont and the US.

Click [here](#) to sign up.

Click [here](#) to go to the interactive map.

The percentage of flu-like symptoms reports in the United States has decreased by 0.4% since last week.
Flu activity in Vermont

Last 7 days

- **2.27 %**
  - Flu-like symptoms (1 report)

- **4.55 %**
  - Other symptoms (2 reports)

- **95.45 %**
  - No symptoms (42 reports)

The percentage of flu-like symptoms reports in Vermont has increased by 23 % since last week.
Resources

NATIONAL WEEKLY FLU REPORT
http://www.cdc.gov/flu/weekly/index.htm

VERMONT FLU WEBSITE
www.healthvermont.gov/prevent/flu/flusurveillance.aspx

CDC SEASONAL INFLUENZA WEBSITE
https://www.cdc.gov/flu/index.htm

KEY FACTS ABOUT SEASONAL FLU VACCINE
https://www.cdc.gov/flu/protect/keyfacts.htm