Influenza activity was categorized as **Sporadic** for MMWR Week 41

- Slightly increased levels of Influenza-like Illness (ILI)* activity seen in emergency departments
  - Of the total emergency room visits, *1.1% were due to ILI*
- Slightly increased levels of ILI activity reported by outpatient providers
  - Sentinel providers reported 1% of patients had ILI
- Vermont Department of Health Laboratory reported **0 positive flu test**
- National Respiratory and Enteric Virus Surveillance System reported **1 positive flu test**
- No outbreaks reported

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

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

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

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**VT Flu Geographic Spread**

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

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**Outbreaks this week: 0**

**Total Outbreaks:** 0

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**FLU SURVEILLANCE SEASON**

**START**

MMWR Week 40
(Week End Date 10/6/18)

**END**

MMWR Week 20
(Week End Date 5/18/19)
Syndromic Surveillance* of Influenza-Like Illness at Vermont Hospitals, 2018-2019 vs. Historic Data

% of Total Emergency Room Visits Due to ILI

Week Ending Date – MMWR Week #

Week ending 10/13/2018 (Week 41)

*Data pulled from ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics)
Sentinel providers report the number of patients with ILI seen by their practice each week. There are 15 medical practices located throughout the state currently providing data.

Percent of Visits Reported by Vermont Sentinel Providers* with Influenza-like Illness by MMWR Week, 2016/17 – 2018/19 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, 2016/17 – 2018/19 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 2018/2019 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.
Individual flu results are not reported to the Vermont Department of Health. The data below represents an unknown subset of the actual number of flu tests performed in Vermont.

Vermont Department of Health Laboratory (VDHL) tests specimens for flu to identify exactly which strains are currently causing illnesses in the state. Flu testing at the state laboratory is for surveillance purposes and is performed on specimens collected during an institutional outbreak and routinely by sentinel providers.

National Respiratory and Enteric Virus Surveillance System (NREVSS) data is collected from collaborating university and community hospital laboratories. These participating laboratories report positive results for a number of viruses, including influenza, on a weekly basis. Three Vermont hospitals voluntarily contribute data into this system.

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimens Tested</td>
<td>1</td>
<td>1</td>
<td>47</td>
<td>98</td>
</tr>
<tr>
<td>Positive Specimens</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>2.1%</td>
</tr>
<tr>
<td>Positive Specimens by Type/Subtype</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Influenza A</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>A (2009 H1N1)</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>A (H1)</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>A (H3)</td>
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<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>A (unsubtyped)</td>
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<td>0%</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Influenza B</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0%</td>
</tr>
</tbody>
</table>

*Laboratory data obtained from VDHL and NREVSS may include the same specimens tested for flu, they are not mutually exclusive. Facilities that report to NREVSS may submit a specimen to VDHL for additional testing, therefore being reported both in NREVSS and VDHL.
OUTBREAK DATA

Long-Term Care Facility Outbreaks

Number of Outbreaks
0

Outbreak Regions
Central: 0
Northeastern: 0
Northwestern: 0
Southeastern: 0
Southwestern: 0

School Outbreaks

Number of Outbreaks
0

Outbreak Regions
Central: 0
Northeastern: 0
Northwestern: 0
Southeastern: 0
Southwestern: 0

Outbreaks at Other Facilities

Number of Outbreaks
0

Outbreak Regions
Central: 0
Northeastern: 0
Northwestern: 0
Southeastern: 0
Southwestern: 0

MAP OF INFLUENZA SURVEILLANCE REGIONS IN VERMONT

*Suspected outbreaks of ILI should be reported to the health department
Influenza activity in the United States remains low. Influenza A(H1N1), A(H3N2), and influenza B viruses continue to co-circulate.

Influenza A viruses have predominated in the United States since the beginning of July.

Full FluView report can be found here: https://www.cdc.gov/flu/weekly/index.htm
1 influenza-associated pediatric death was reported to CDC during week 41.
So far this season, there has been 1 influenza-associated pediatric death reported to CDC.
There have been no influenza-associated pediatric deaths reported in Vermont this season.

Number of Influenza-Associated Pediatric Deaths by Week of Death:
2015-2016 season to present

2015-2016
Number of Deaths Reported = 94

2016-2017
Number of Deaths Reported = 110

2017-2018
Number of Deaths Reported = 183

2018-2019
Number of Deaths Reported = 1

Full FluView report can be found here:
https://www.cdc.gov/flu/weekly/index.htm
The proportion of outpatient visits for Influenza-like Illness for week 41 was 1.4% 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, 2018-2019 and Selected Previous Seasons
During week 41, the following ILI activity levels were experienced:


- Data were insufficient to calculate an ILI activity level from one state (New York).

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2018-19 Influenza Season Week 41 ending Oct 13, 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.
Geographic spread for week 41**:

**No activity** was reported by 8 states.

**Sporadic** activity was reported by D.C., the US Virgin Islands, and 40 states.

**Local** activity reported by Guam 2 states.

**Regional** activity was not reported.

**Widespread** activity was not reported.

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending October 13, 2018 - Week 41

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

**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)
Resources

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

NATIONAL WEEKLY FLU REPORT - INTERACTIVE
https://www.cdc.gov/flu/weekly/fluviewinteractive.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