Influenza activity was categorized as **Sporadic** for MMWR Week 47

- Increased levels of Influenza-like Illness (ILI) activity seen in emergency departments
  - Of the total emergency room visits, **1.6% were due to ILI**
- Increased levels of ILI activity reported by outpatient providers
  - Sentinel providers reported **1.2% of patients had ILI**
- Vermont Department of Health Laboratory reported **0 positive flu tests**
- National Respiratory and Enteric Virus Surveillance System reported **1 positive flu test**

*Based on CDC’s Activity Estimates Definitions: www.cdc.gov/flu/weekly/overview.htm*
Week ending 11/25/2017 (Week 47)

% of Total Emergency Room Visits Due to ILI

- 2017-2018**
- 2016-2017
- Avg 2004-2014*
- Min 2004-2014*
- Max 2004-2014*

*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 11 medical practices located throughout the state currently partnering with the Health Department as sentinel sites.

*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.
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percentage</td>
<td>Number</td>
<td>Percentage</td>
</tr>
<tr>
<td>Specimens Tested</td>
<td>0</td>
<td>0%</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>Positive Specimens</td>
<td>0</td>
<td>0%</td>
<td>1</td>
<td>5.3%</td>
</tr>
<tr>
<td>Positive Specimens by Type/Subtype</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Influenza A</td>
<td>0</td>
<td>0%</td>
<td>1</td>
<td>100%</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>
<td>0</td>
<td>0%</td>
<td>1</td>
<td>100%</td>
</tr>
<tr>
<td>A (unsubtyped)</td>
<td>0</td>
<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 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 VDHL for additional testing, therefore being reported both in NREVSS and VDHL.
<table>
<thead>
<tr>
<th><strong>Long-Term Care Facility Outbreaks</strong></th>
<th><strong>School Outbreaks</strong></th>
<th><strong>Outbreaks at Other Facilities</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Outbreaks</strong></td>
<td><strong>Number of Outbreaks</strong></td>
<td><strong>Number of Outbreaks</strong></td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Number of Lab Confirmed Outbreaks</strong>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
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</tr>
</tbody>
</table>

**Outbreak Regions**

- **Central:** 0
- **Northeastern:** 0
- **Northwestern:** 0
- **Southeastern:** 0
- **Southwestern:** 1

**Outbreak Regions**

- **Central:** 0
- **Northeastern:** 0
- **Northwestern:** 0
- **Southeastern:** 0
- **Southwestern:** 0

**Outbreak Regions**

- **Central:** 0
- **Northeastern:** 0
- **Northwestern:** 0
- **Southeastern:** 0
- **Southwestern:** 0

*An outbreak at a LTCF is defined as a single resident with a positive flu test plus other cases of respiratory illness OR two or more residents with ILI which includes two or more of the following symptoms: fever, nonproductive cough, myalgia, pharyngitis.*

MAP OF INFLUENZA SURVEILLANCE REGIONS IN VERMONT

During Week 47, influenza activity increased in the US
The most frequently identified flu virus type reported by public health laboratories was flu A

Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories,
National Summary, 2017-2018 Season

Full FluView report can be found here: https://www.cdc.gov/flu/weekly/index.htm
No influenza-associated pediatric deaths were reported during week 47. So far this season, there has been 5 pediatric deaths reported to CDC. There have been no pediatric deaths reported in Vermont this season.
The proportion of outpatient visits for influenza-like illness for week 47 was **2.3%** which was **above the national baseline of 2.2%**

Full FLuView report can be found here: https://www.cdc.gov/flu/weekly/index.htm
During week 47, the following ILI activity levels were experienced:

- Three states experienced high activity (Louisiana, Mississippi, and South Carolina)
- One state experienced moderate ILI activity (Georgia)
- Ten states experienced low ILI activity (Alabama, Alaska, Arizona, Hawaii, Massachusetts, Nebraska, Oklahoma, South Dakota, Texas, and Virginia).
- Data were insufficient to calculate an ILI activity level from Puerto Rico.

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet

2017-18 Influenza Season Week 47 ending Nov 25, 2017

*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 47**

**Sporadic** activity reported by 12 states, D.C., and the U.S. Virgin Islands

**Local** activity reported by 24 states and Puerto Rico

**Regional** activity reported by 10 states and Guam

**Widespread** activity reported by 4 states

**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 increased by 0.4% since last week.
Flu activity in Vermont

Last 7 days

- **3.7 %**
  - Flu-like symptoms
  - 2 reports

- **14.81 %**
  - Other symptoms
  - 8 reports

- **85.19 %**
  - No symptoms
  - 46 reports

The percentage of flu-like symptoms reports in Vermont has increased by 3.7 % 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