Influenza activity was categorized as **Regional** for MMWR Week 17

- Increased levels of Influenza-like Illness (ILI) activity seen in emergency departments
  - Of the total emergency room visits, **1.9% were due to ILI**
- Increased levels of ILI activity reported by outpatient providers
  - Sentinel providers reported **2.4% of patients had ILI**
- Vermont Department of Health Laboratory reported **3 positive flu tests**
- National Respiratory and Enteric Virus Surveillance System reported **23 positive flu tests**
- No outbreaks reported

<table>
<thead>
<tr>
<th>VT Flu Geographic Spread*</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Activity</td>
</tr>
<tr>
<td>Sporadic</td>
</tr>
<tr>
<td>Local</td>
</tr>
<tr>
<td>Regional</td>
</tr>
<tr>
<td>Widespread</td>
</tr>
</tbody>
</table>

*Based on CDC's Activity Estimates Definitions: [www.cdc.gov/flu/weekly/overview.htm](http://www.cdc.gov/flu/weekly/overview.htm)
Syndromic Surveillance of Influenza-Like Illness (ILI) at Vermont Hospitals, 2017-2018 vs. Historic Data

Week Ending Date -- MMWR Week #

* 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

Week ending 4/28/2018 (Week 17)

*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

SENTINEL PROVIDER DATA

*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.
Individual influenza laboratory results are not reported to the Vermont Department of Health. The data below represents an unknown subset of the actual number of flu tests done 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 completed on specimens submitted to VDHL.

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.

*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></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percentage</td>
</tr>
<tr>
<td>Specimens Tested</td>
<td>7</td>
<td>342</td>
</tr>
<tr>
<td>Positive Specimens</td>
<td>3</td>
<td>43%</td>
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<tr>
<td>Positive Specimens by Type/Subtype</td>
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<td></td>
</tr>
<tr>
<td>Influenza A</td>
<td>2</td>
<td>67%</td>
</tr>
<tr>
<td>A (2009 H1N1)</td>
<td>1</td>
<td>50%</td>
</tr>
<tr>
<td>A (H1)</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>A (H3)</td>
<td>1</td>
<td>50%</td>
</tr>
<tr>
<td>A (unsubtyped)</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Influenza B</td>
<td>1</td>
<td>33%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>NREVSS* Current Week (Apr 22-Apr 28, 2018)</th>
<th>NREVSS* 2017-2018 Season Total (Oct 1, 2017-Apr 28, 2018)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percentage</td>
</tr>
<tr>
<td>Specimens Tested</td>
<td>157</td>
<td></td>
</tr>
<tr>
<td>Positive Specimens</td>
<td>23</td>
<td>14.6%</td>
</tr>
<tr>
<td>Positive Specimens by Type/Subtype</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Influenza A</td>
<td>8</td>
<td>34.8%</td>
</tr>
<tr>
<td>A (2009 H1N1)</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>A (H1)</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>A (H3)</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>A (unsubtyped)</td>
<td>15</td>
<td>65.2%</td>
</tr>
</tbody>
</table>

Vermont Department of Health

DEPARTMENT OF HEALTH
### 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**: 7
- **Outbreak Regions**:
  - Central: 0
  - Northeastern: 1
  - Northwestern: 3
  - Southeastern: 2
  - Southwestern: 1

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MAP OF INFLUENZA SURVEILLANCE REGIONS IN VERMONT


Suspected outbreaks of ILI should be reported to the health department.
During week 17, influenza activity decreased in the United States. The most frequently identified flu virus type reported by public health laboratories was flu B.

Full FluView report can be found here: https://www.cdc.gov/flu/weekly/index.htm
3 influenza-associated pediatric death were reported to CDC during week 17. So far this season, there has been 163 influenza-associated pediatric deaths 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:
2014-2015 season to present

- **2014-2015**
  - Number of Deaths Reported = 148

- **2015-2016**
  - Number of Deaths Reported = 93

- **2016-2017**
  - Number of Deaths Reported = 110

- **2017-2018**
  - Number of Deaths Reported = 163

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 17 was **1.5%** which is **below the national baseline of 2.2%**.
During week 17, the following ILI activity levels were experienced:

- Two states experienced low ILI activity (Alaska and Arizona).

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

2017-18 Influenza Season Week 17 ending Apr 28, 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 17**:

- **No activity** was reported by US Virgin Islands and 2 states.
- **Sporadic** activity was reported by D.C. and 14 states.
- **Local** activity reported by 24 states.
- **Regional** activity was reported by Guam, Puerto Rico, and 7 states.
- **Widespread** activity reported by 3 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 decreased by 0.2% since last week.
Flu activity in Vermont

Last 7 days

- **4.26 %**
  - Flu-like symptoms
  - 2 reports

- **17.02 %**
  - Other symptoms
  - 8 reports

- **82.98 %**
  - No symptoms
  - 39 reports

The percentage of flu-like symptoms reports in Vermont has increased by 4.3 % 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