

# VERMONT WEEKLY INFLUENZA SURVEILLANCE REPORT

January 22-28, 2017 | MMWR Week 4

## KEY POINTS

Influenza activity was categorized as **regional** for MMWR Week 4

- Levels of Influenza-like Illness (ILI) activity seen in emergency departments increased
  - Of the total emergency room visits, **3.1% were due to ILI**
- Sentinel providers reported **0.9% of patients had ILI**
- Vermont Department of Health Laboratory reported **16 positive flu tests**
- National Respiratory and Enteric Virus Surveillance System reported **29 positive flu tests**
- **1 outbreak reported** from a long-term care facility in the Southwestern Flu Region during Week 4
- Increase in reports of positive flu cases from hospitals

**FLU SURVEILLANCE SEASON**

**START**  
MMWR Week 40  
(Week End Date 10/08/16)

**END**  
MMWR Week 20  
(Week End Date 5/20/17)

**NATIONAL WEEKLY FLU REPORT**

<http://www.cdc.gov/flu/weekly/index.htm>

**VERMONT FLU WEBSITE**

[www.healthvermont.gov/prevent/flu/flusurveillance.aspx](http://www.healthvermont.gov/prevent/flu/flusurveillance.aspx)

## VT Flu Geographic Spread\*

No Activity

Sporadic

Local

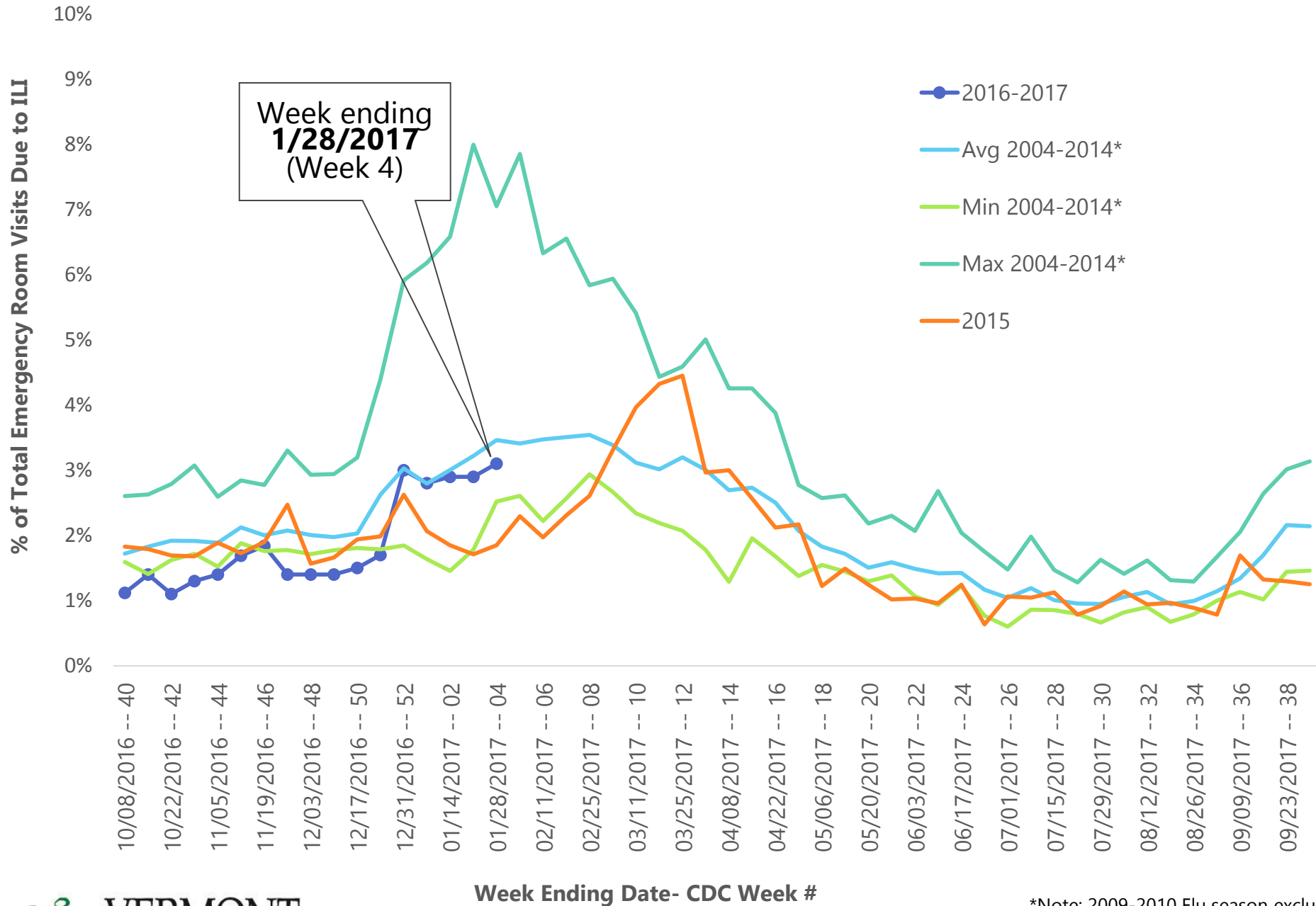
**Regional**

Widespread

\*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, 2016-2017 vs. Historic Data

SYNDROMIC SURVEILLANCE



\*Note: 2009-2010 Flu season excluded

# Sentinel Provider Data From ILINET

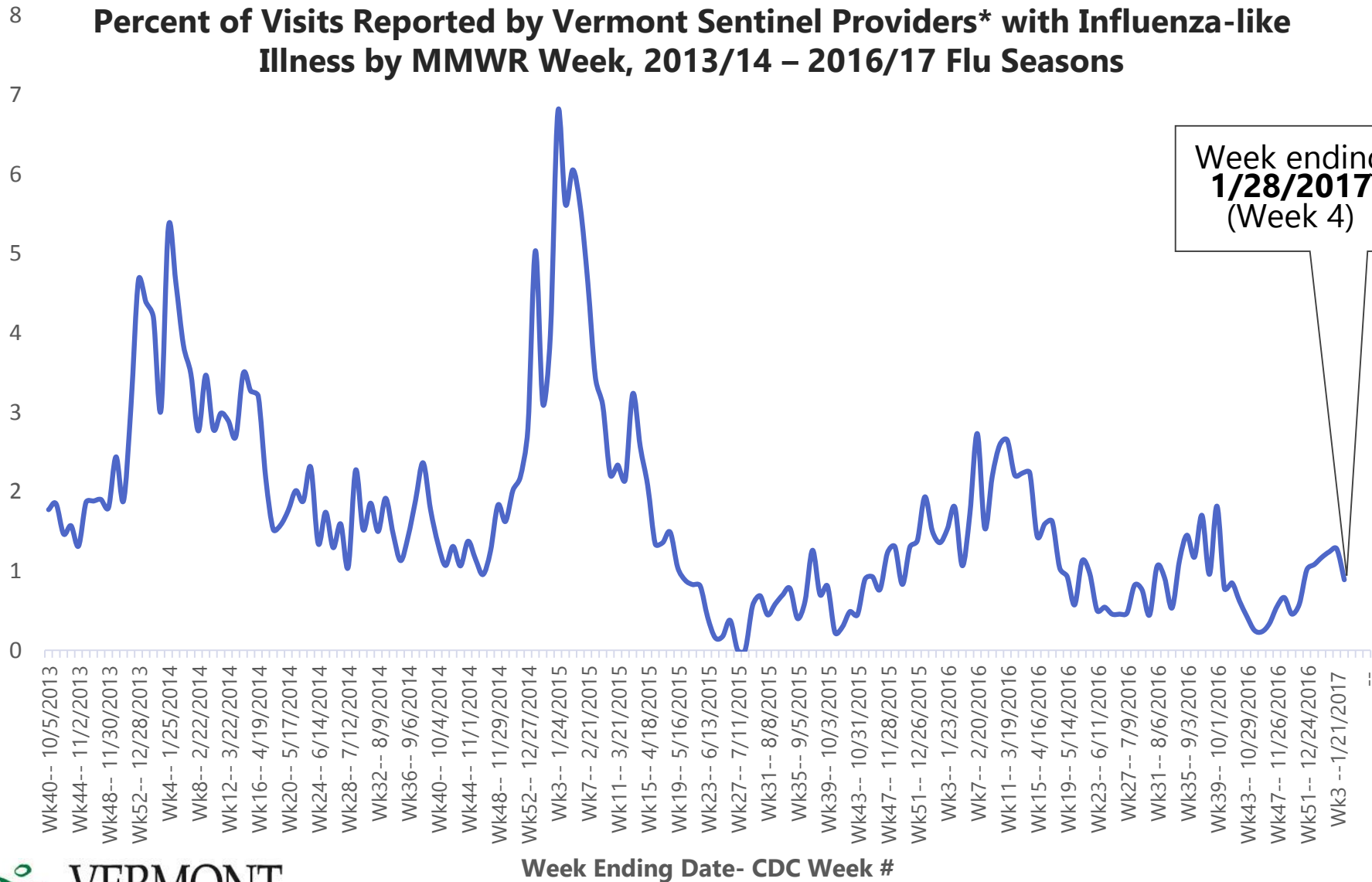
Sentinel providers report the number of patients with an ILI seen by their practices each week

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

There are 13 medical practices located throughout the state currently partnering with the Health Department as sentinels

## Percent of Visits Reported by Vermont Sentinel Providers\* with Influenza-like Illness by MMWR Week, 2013/14 – 2016/17 Flu Seasons

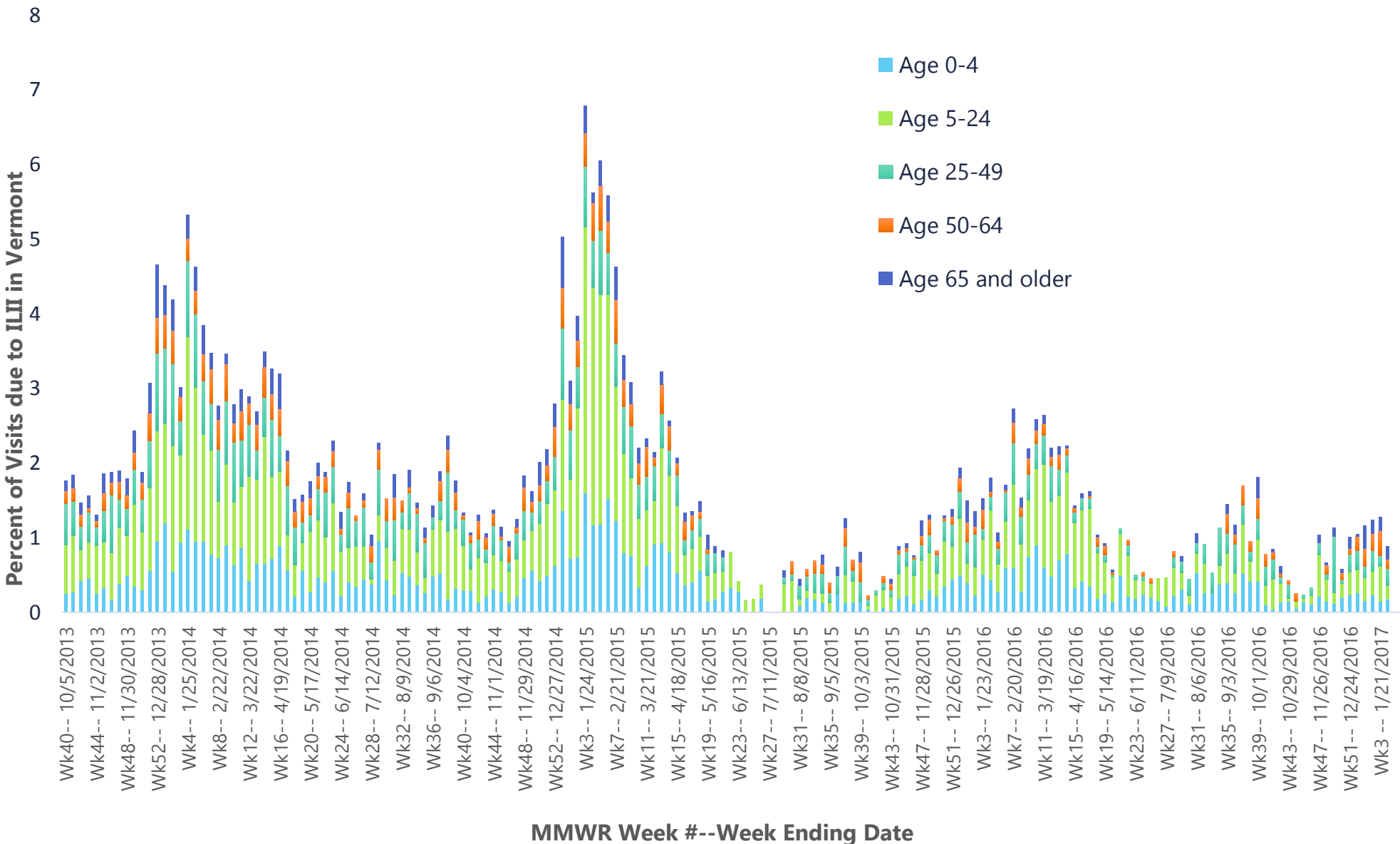
Percent of Visits due to ILI in Vermont



Week ending  
**1/28/2017**  
(Week 4)

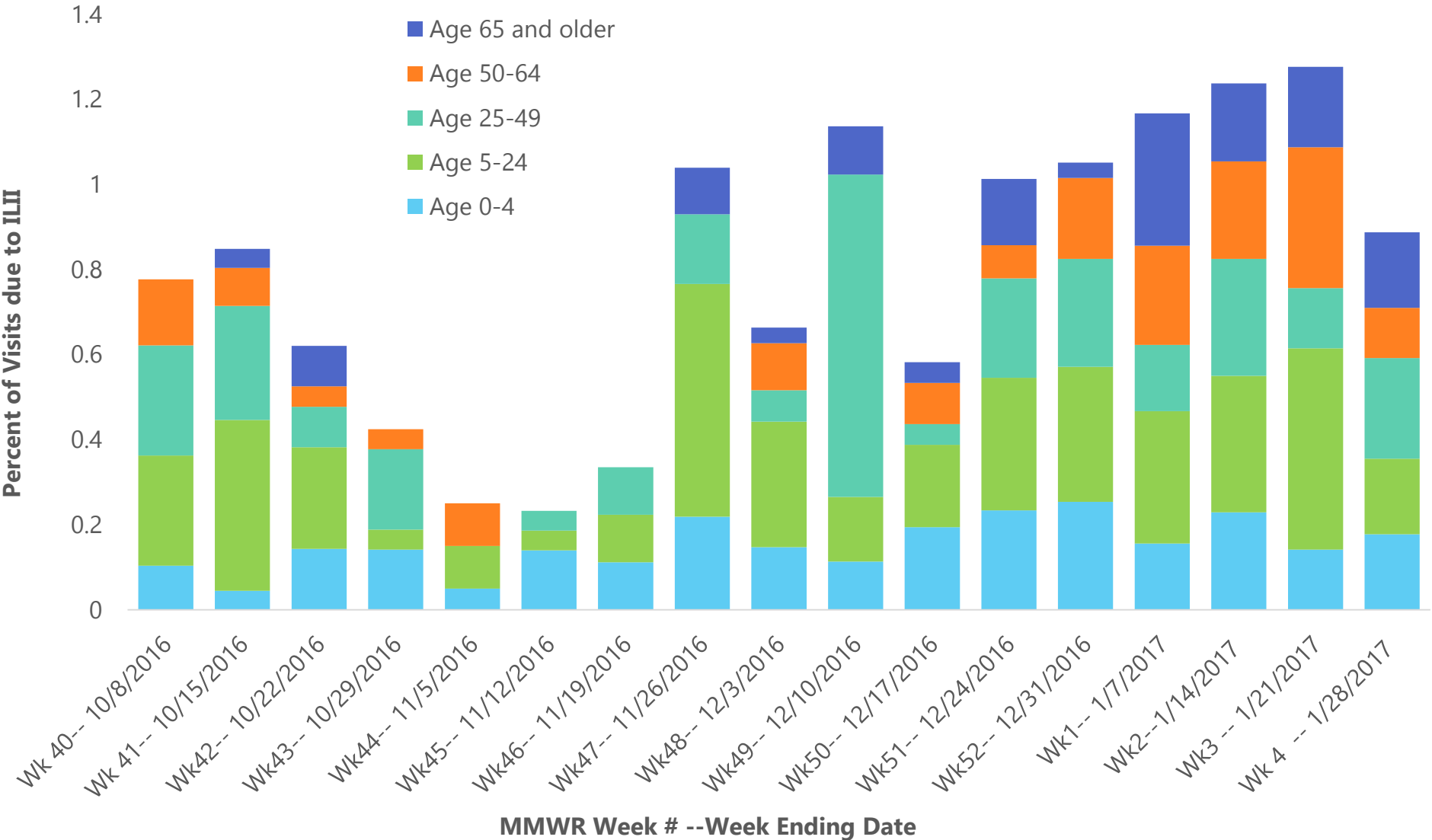
\*The ILI data are more robust when a higher percentage of provider reports are received. Recent data are provisional due to reporting lags.

# Percent of Visits Reported by Vermont Sentinel Providers\* with Influenza-like Illness by Age Group by MMWR Week, 2013/14 – 2016/17 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 2016/2017 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.

# Vermont Department of Health Laboratory (VDHL) and National Respiratory and Enteric Virus Surveillance System (NREVSS)

LABORATORY DATA

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

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

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 contribute data into this system and is voluntary

	VDHL* Current Week (Jan 22-28, 2017)		VDHL* 2016-2017 Season Total (Oct 2, 2016-Jan 28, 2017)		NREVSS* Current Week (Jan 22-28, 2017)		NREVSS* 2016-2017 Season Total (Oct 2, 2016-Jan 28, 2017)	
	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
<b>Specimens Tested</b>	18		111		254		2173	
<b>Positive Specimens</b>	16	88.9%	85	76.6%	29	11.4%	189	8.7%
<b>Positive Specimens by Type/Subtype</b>								
<b>Influenza A</b>	16	100%	84	98.8%	27	93.1%	178	94.2%
<b>A (2009 H1N1)</b>	0	0%	0	0%	0	0%	0	0%
<b>A (H1)</b>	0	0%	0	0%	0	0%	0	0%
<b>A (H3)</b>	16	100%	84	100%	0	0%	0	0%
<b>A (unsubtyped)</b>	0	0%	0	0%	27	100%	151	100%
<b>Influenza B</b>	0	0%	1	1.2%	2	6.9%	11	5.8%

\*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.

# Outbreaks During the 2016-2017 Season\*

## Long-Term Care Facility Outbreaks

### Number of Outbreaks

7

### Outbreak Regions

Central:	1
Northeastern:	0
Northwestern:	4
Southeastern:	1
Southwestern:	1

## School Outbreaks

### Number of Outbreaks

1

### Outbreak Regions

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

## MAP OF INFLUENZA SURVEILLANCE REGIONS IN VERMONT

[http://healthvermont.gov/sites/default/files/documents/2016/11/ID\\_HS\\_sentinel\\_map\\_16.pdf](http://healthvermont.gov/sites/default/files/documents/2016/11/ID_HS_sentinel_map_16.pdf)