





# Influenza Activity Report

## Influenza Activity in Medina County: April 1-28, 2018

### Summary:

Public health surveillance data indicates levels of influenza like illness (ILI) are trending downward and returning to historical averages for Medina County. The percentage of ILI emergency department (ED) visits among Medina County residents are similar to statewide levels (Figure 1). The geographic distribution of ILI ED visits is sporadic with influenza activity found in about half of the county's zip codes (Figure 2). There were 14 influenza-associated hospitalizations and 0 novel influenza infections reported to the Medina County Health Department during weeks 14 to 17. The incidence of influenza associated hospitalizations is slightly above the average (Figure 3). The frequency of ILI associated hospitalizations is highest among adults age 65 or older while the highest frequency of ILI ED visits is among children less than 18 years of age (Figure 4). Twenty-six deaths associated with influenza or pneumonia have occurred since the beginning of the influenza season.

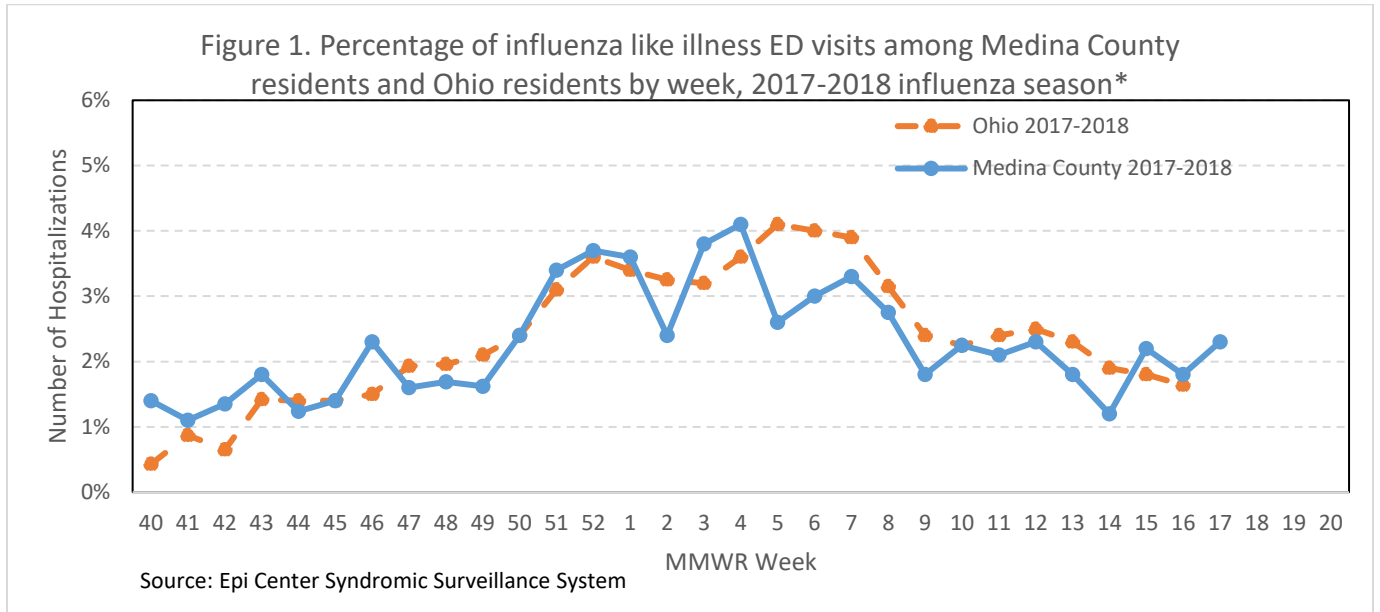
### Dashboard:

Indicator	Current Week*	Previous Week*	Trend (# of weeks)	Season to Date
Number of ILI ED visits <sup>1</sup>	35	23	 1	1,011
Percentage of ILI ED visits <sup>1</sup>	2.3%	1.8%	 1	-
Number of Influenza Hospitalizations <sup>2</sup>	1	2	 1	267
Number of Novel Influenza Infections <sup>2</sup>	0	0	 29	0
Number of Deaths Associated with Influenza or Pneumonia <sup>3</sup>				30

\*Current and previous week data includes only week 17 and 16 for comparison. Season to date has been updated to reflect cumulative totals up to week 17.\*

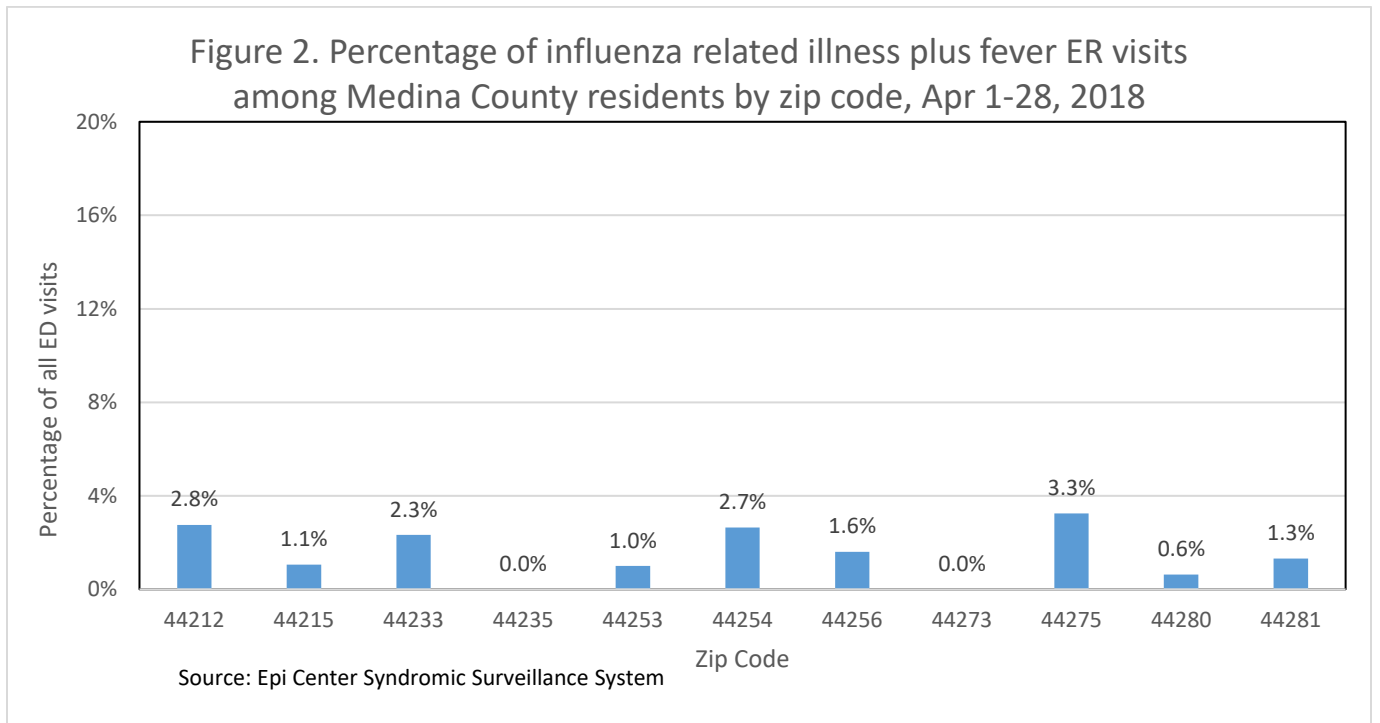
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## Percentage of ILI ED Visits by Week:



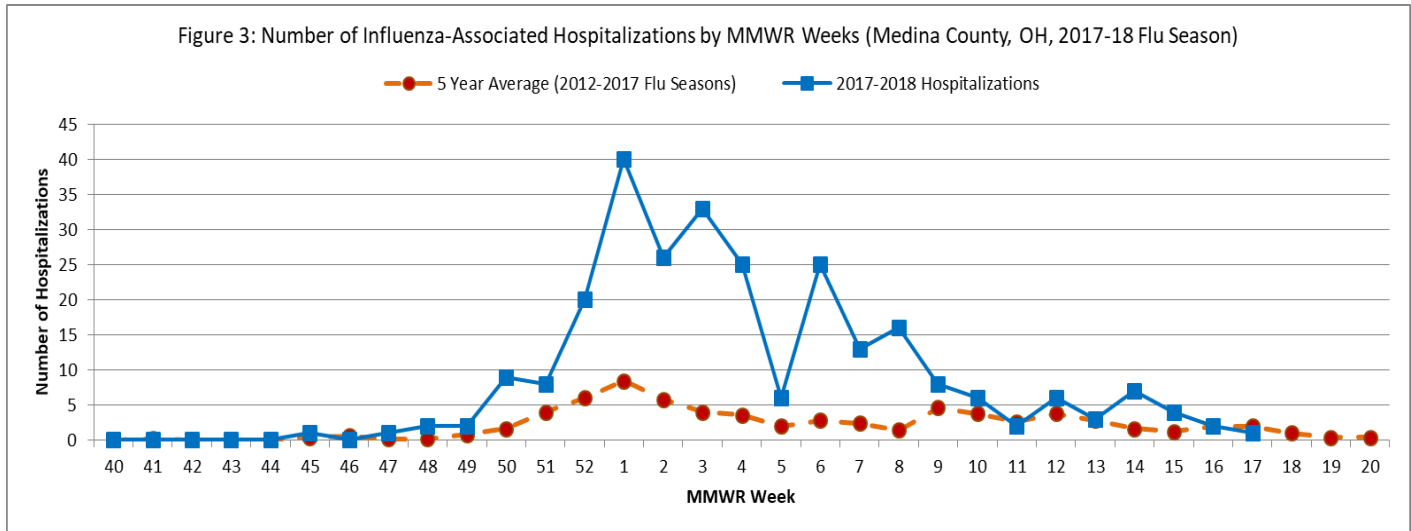
\*Ohio ILI ED Visits for week 17 were not available at the completion of this report.\*

## Geographic Distribution of Medina County ILI ED Visits:

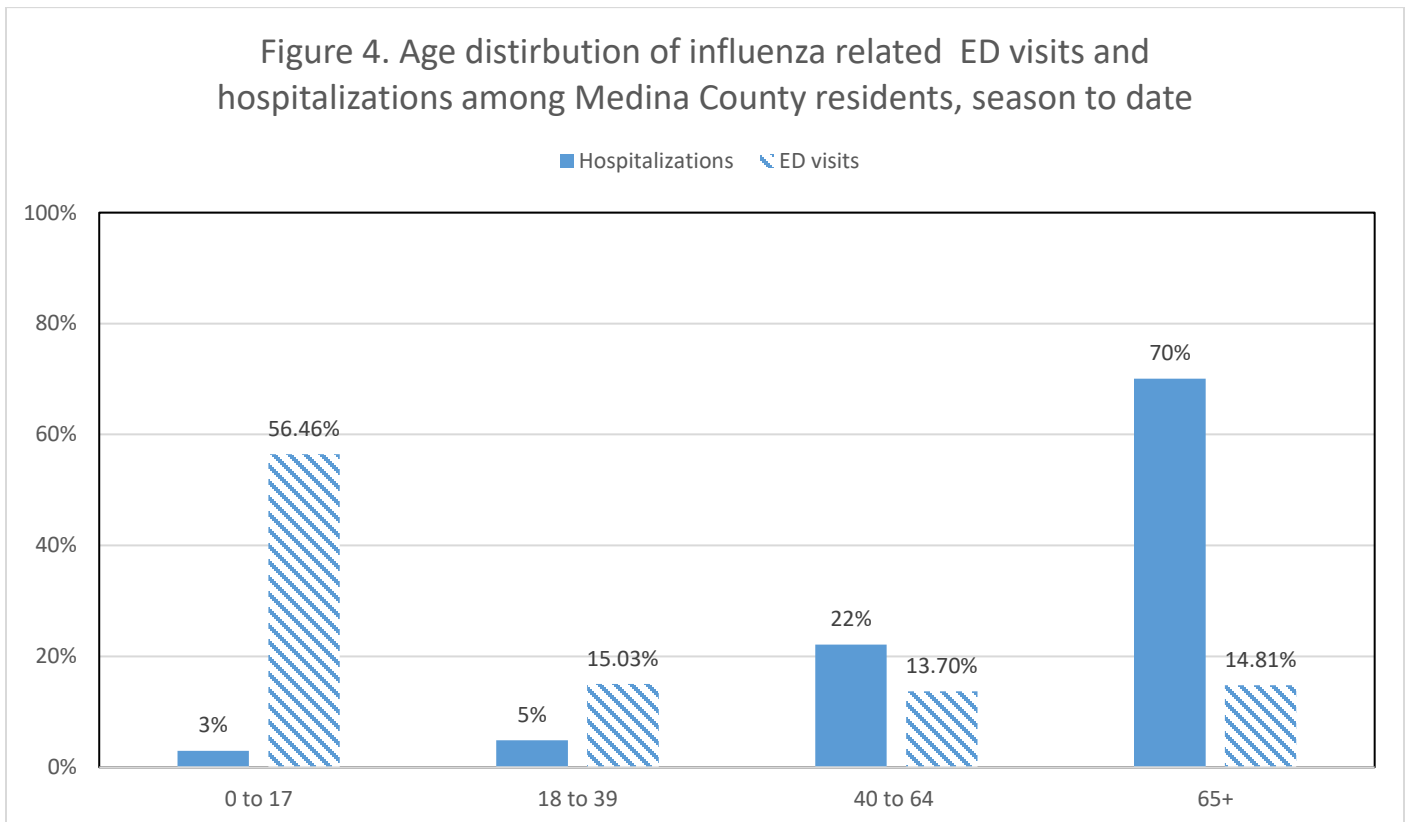


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## Incidence of Influenza-Associated Hospitalizations among Medina County Residents:



## Age Distribution of Influenza ER Visits and Hospitalizations among Medina County Residents:



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## State, Regional, and National Data:

### Ohio Surveillance Data:

- **ODH lab** has reported **1223** influenza tests from specimens sent from various submitters. 2017-2018 influenza season positive results: **(683) A/H3N2; (105) A/pdmH1N1; (199) Influenza B;** (through 04/21/2018).
- The **National Respiratory and Enteric Virus Surveillance System (NREVSS)** has reported **76,205** influenza tests performed at participating facilities. 2017-2018 influenza season positive results: **(200) H1N1, (640) A/H3N2, (11,267) Flu A Not Subtyped, and (4281) Flu B** (through 04/21/2018).
- **4 pediatric influenza-associated mortalities** have been reported during the 2017-2018 season (through 04/21/2018).
- No **novel influenza A virus infections** have been reported during the 2017-2018 season (through 04/21/2018).
- Incidence of confirmed **influenza-associated hospitalizations** in 2017-2018 season = **16,859\*** (through 03/24/2018).

**Regional Surveillance Data\*\*:** During week 15 (April 8th – April 14th, 2018), the proportion of outpatient visits for ILI in Region 5 (Ohio is in Region 5) was 1.55%, which is above the regional baseline of 1.8%. Ohio and Indiana reported Widespread Activity; Kentucky, Michigan, and Pennsylvania reported Regional Activity; and West Virginia reported Local Activity.

**National Surveillance Data\*:** During week 15 (April 8th – April 14th, 2018), most U.S. states reported Minimal or Low influenza activity, though a few are still reporting Moderate or High activity. The proportion of outpatient visits for ILI was 1.8%, which is **below** the national baseline of 2.2%. One of 10 regions reported ILI at or above their region-specific baseline level. The most frequently identified influenza virus type reported by public health laboratories was **influenza B**.

\*National-level and regional-level data are reported one week later than Ohio state-level.

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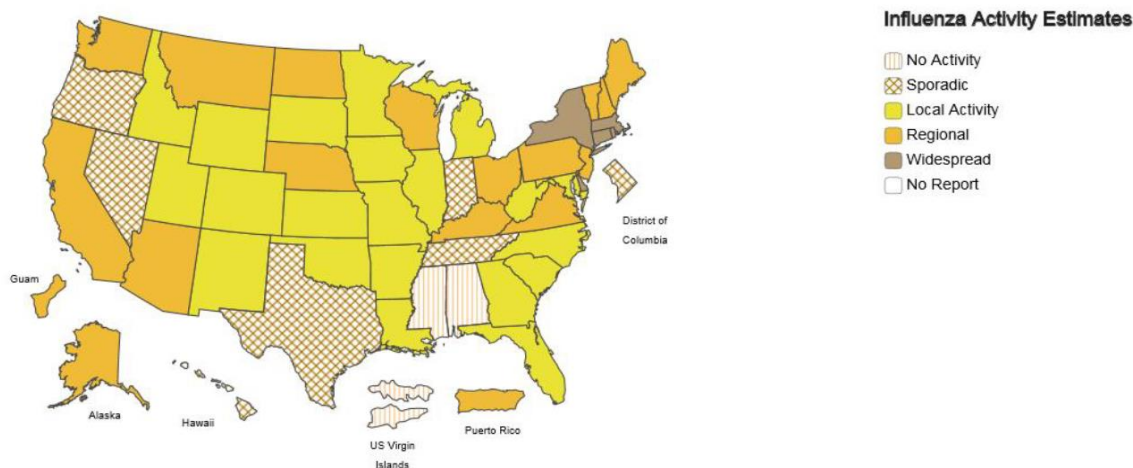
FLUVIEW



A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists\*

Week Ending Apr 14, 2018 - Week 15



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

## Data Sources:

- Emergency Department Visits (EpiCenter):** EpiCenter collects emergency department chief complaint data from hospitals and urgent care facilities across Medina County and classifies them into symptom and syndrome categories. Rates for chief complaints regarding fever + ILI and other symptoms commonly detected during the flu season are analyzed.
- Influenza-Associated Hospitalizations (ODRS):** Influenza-associated hospitalizations and novel influenza infections are reported by the Medina County Health Department and hospitals using the Ohio Disease Reporting System (ODRS). Hospitalizations can be used as an indicator of the severity of illness during a particular influenza season. This condition became reportable in January 2009.
- Office of Vital Statistics:** The Medina County Health Department Office of Vital Statistics receives reports on the causes of death that occur within the county. Deaths are counted as influenza or pneumonia deaths if they are listed as the immediate or underlying cause on the death certificate.