MEDINA COUNTY HEALTH DEPARTMENT
Prevent. Promote. Protect.

Weekly Influenza Activity Report

MMWR Week 5 (1/27/19-2/2/19)

Date Completed: 2/8/19

Summary:

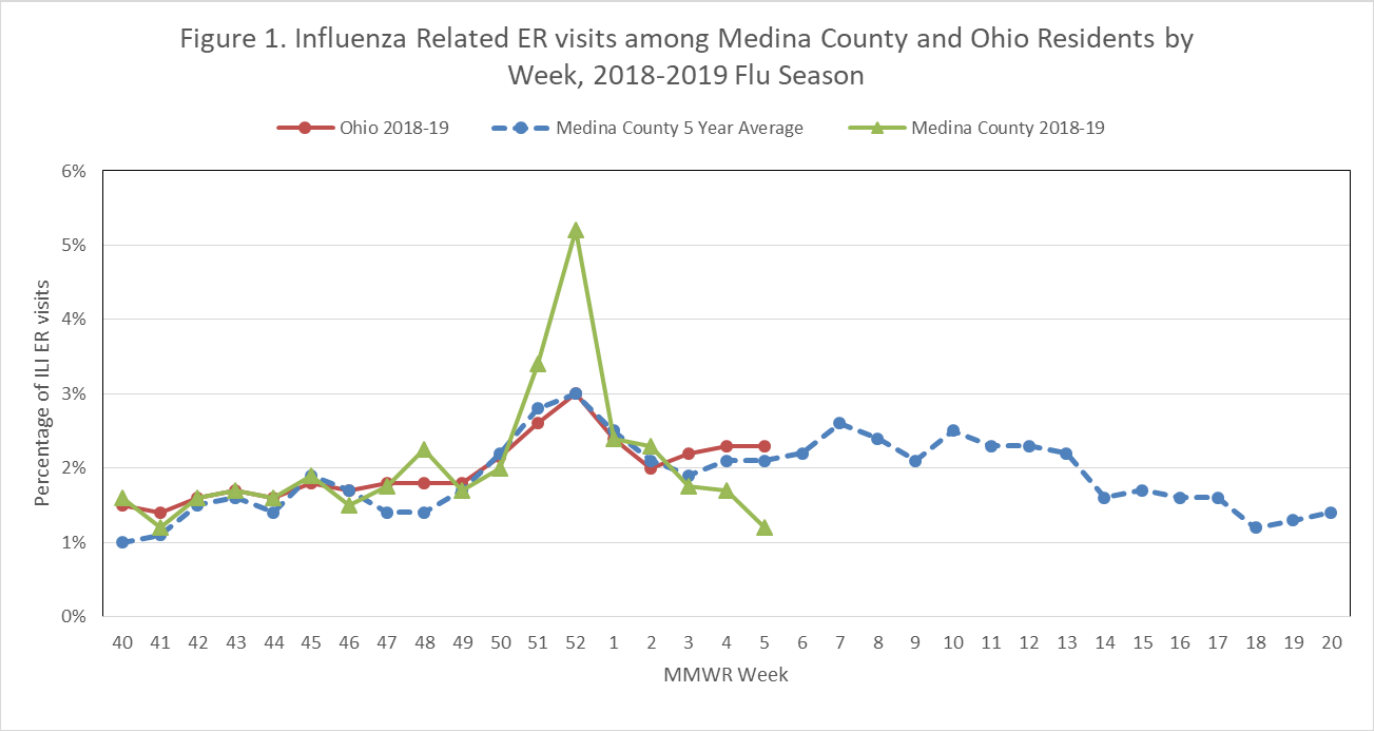
Public health surveillance data indicates levels of influenza like illness (ILI) are trending below the historical 5 year average for Medina County for ILI emergency department (ED) visits and trending below the historical 5 year average for Influenza hospitalizations. The percentage of ILI emergency department (ED) visits among Medina County residents are below the statewide levels (Figure 1). The geographic distribution of ILI ED visits has decreased with influenza activity found in less than half of the county's zip codes (Figure 2). There was 1 influenza-associated hospitalization and 0 novel influenza infections reported to the Medina County Health Department during week 5. The incidence of influenza associated hospitalizations is below the 5 year average (Figure 3). The highest frequency of ILI associated hospitalizations are among adults 45 years and older while the highest frequency of ILI ED visits are among children less than 18 years of age (Figure 4). Over-the-counter medication sales for adults are trending upward and over-the-counter medication sales for children are trending upward.

Dashboard:

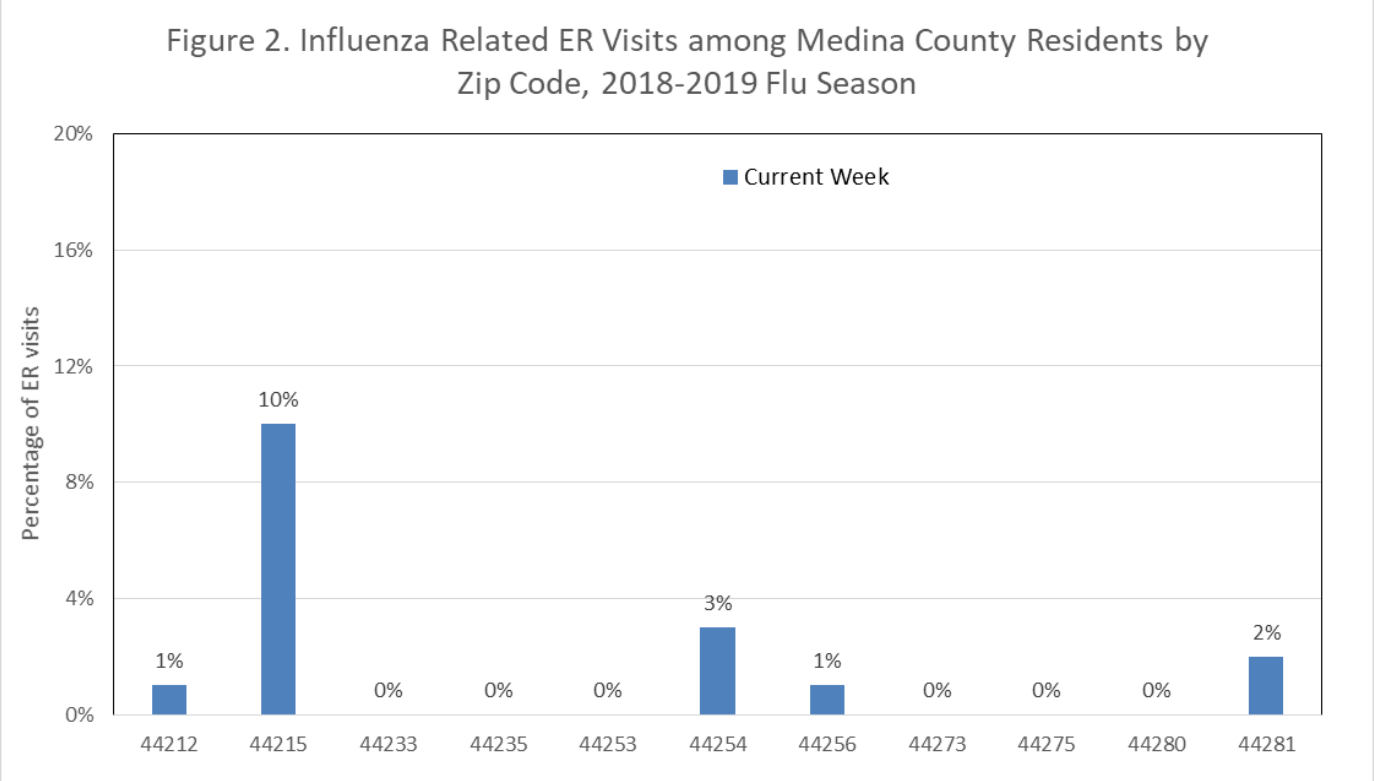
Indicator	Current Week	Previous Week	Trend (# of weeks)	Season to Date
Number of ILI ED visits[1]	16	22	↓ 1	525
Percentage of ILI ED visits[1]	1.20%	1.70%	↓ 5	-
Number of Influenza Hospitalizations[2]	1	1	↔ 1	39
Number of Novel Influenza Infections[2]	0	0	↔ 18	0
Number of Over-the-Counter[3] Medication Sales (Adult)*	1904	1744	↑ 1	33784
Number of Over-the-Counter[3] Medication Sales (Children)*	249	195	↑ 1	2411

Over-the-counter (OTC) medication sales do not reflect all OTC medication sales within the county. Please see Figures 5 and 6 for specific medications that are being tracked and monitored. All numbers are preliminary and subject to change.

Percentage of ILI ED Visits by Week:

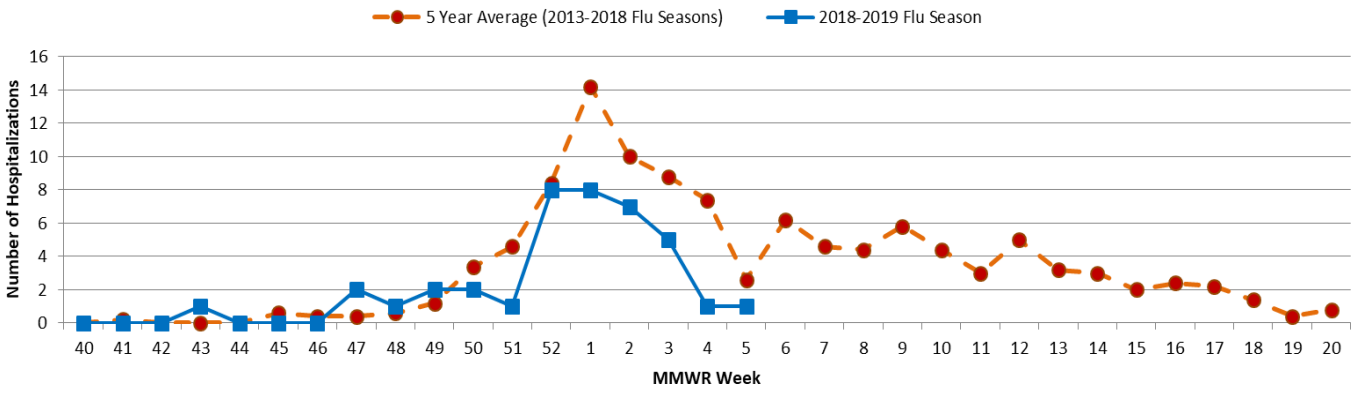


Geographic Distribution of Medina County ILI ED Visits:



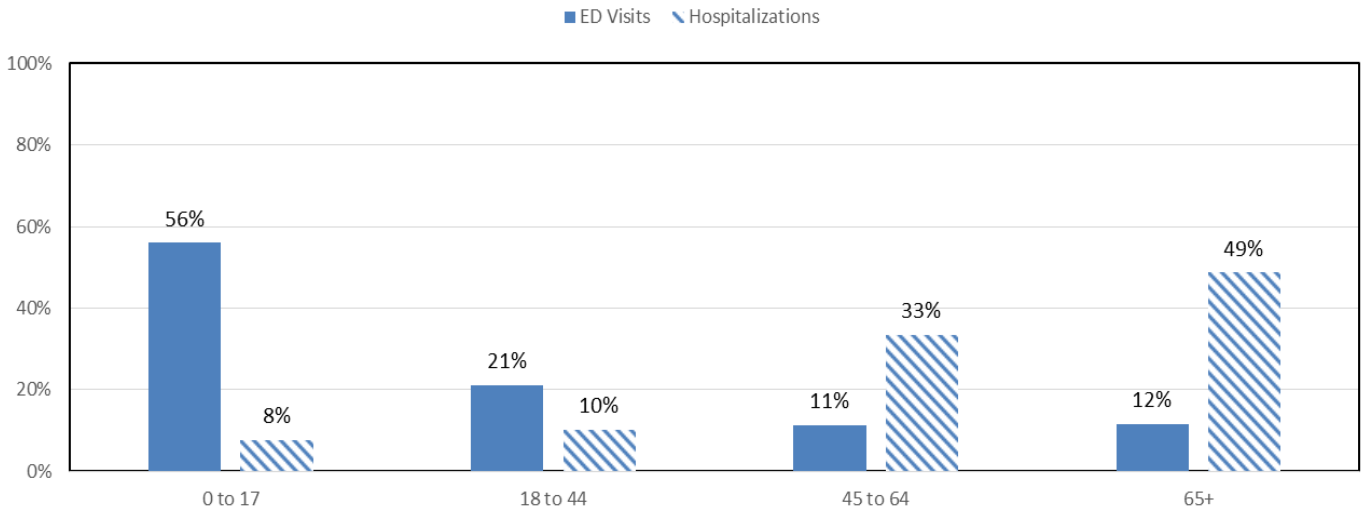
Incidence of Influenza-Associated Hospitalizations among Medina County Residents:

Figure 3: Number of Influenza-Associated Hospitalizations among Medina County residents by week, 2018-19 Flu Season

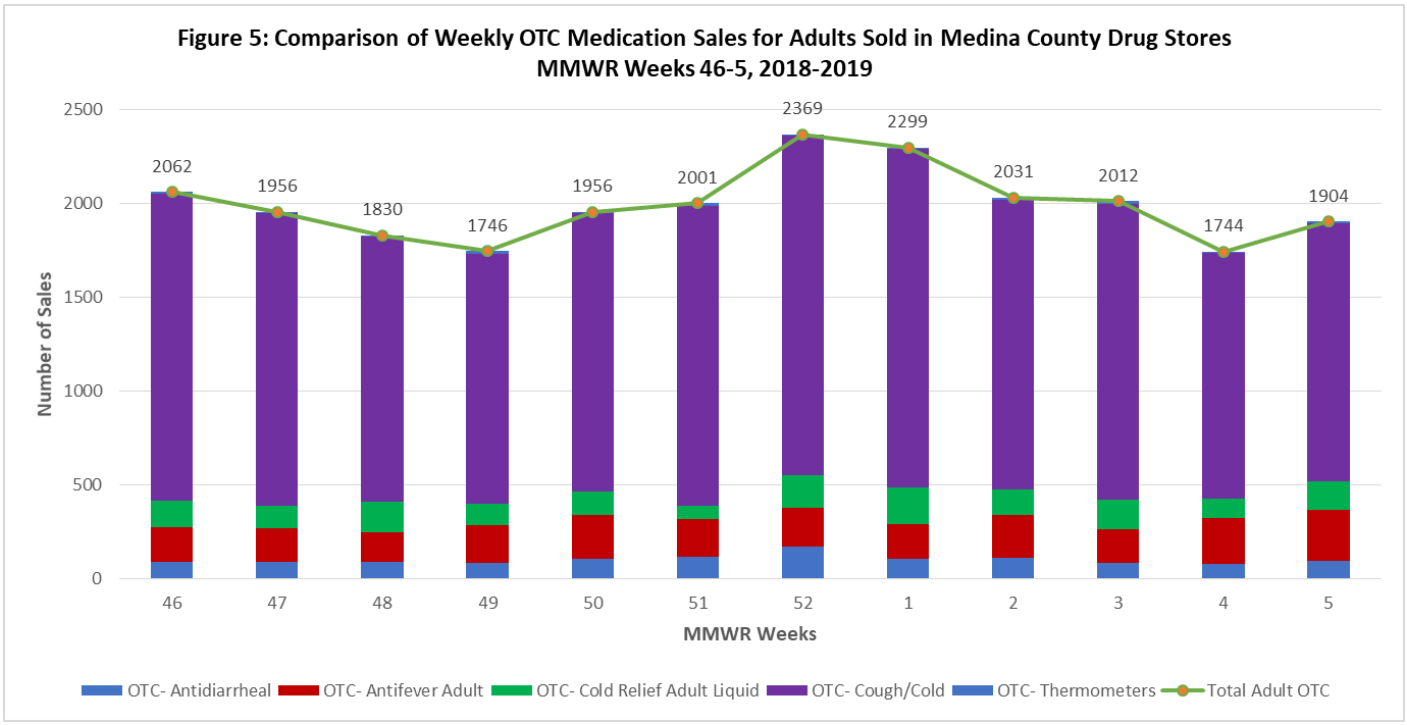


Age Distribution of Influenza ER Visits and Hospitalizations among Medina County Residents:

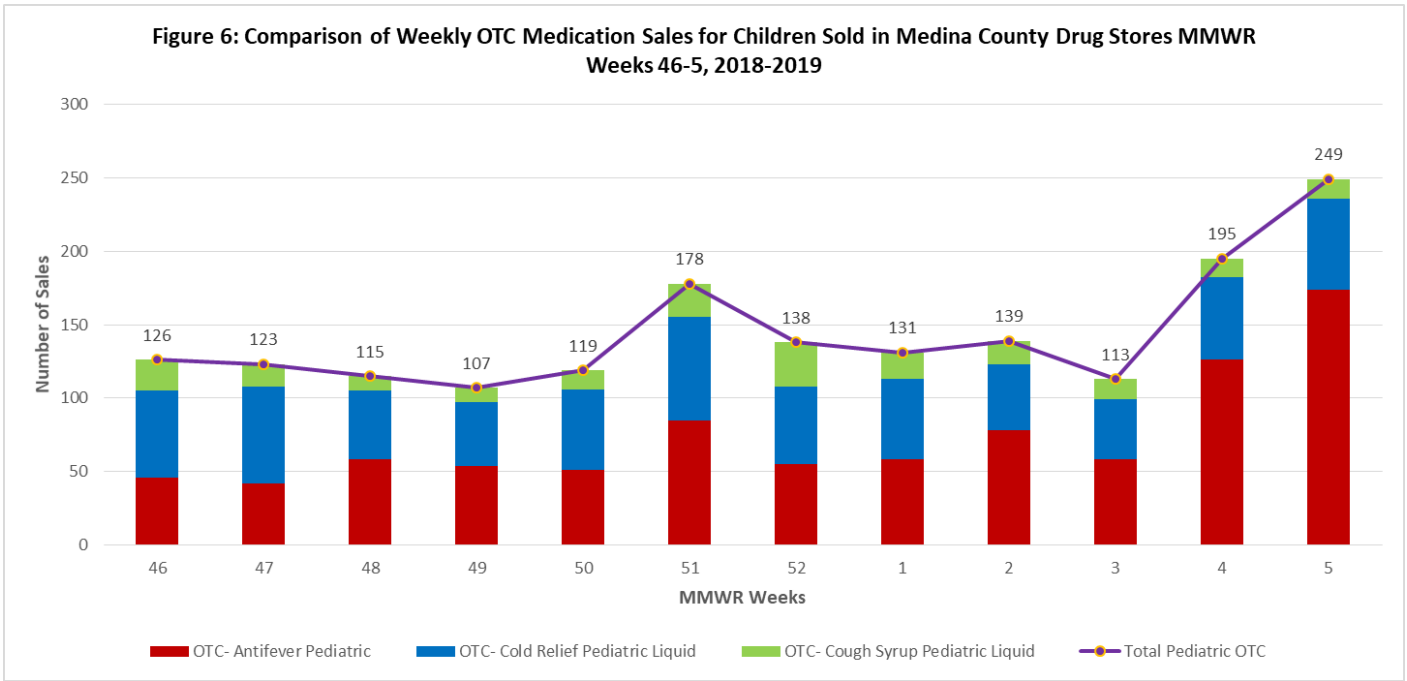
Figure 4. Age Distribution of Influenza Related ED Visits and Influenza Associated Hospitalizations among Medina County Residents, 2018-2019 Flu Season



Number of OTC Medication Sales for Adults Sold in Medina County Drug Stores:



Number of OTC Medication Sales for Children Sold in Medina County Drug Stores:



State, Regional, and National Data:

Ohio Surveillance Data:

ODH lab has reported **369 positive** influenza test from specimens sent from various submitters. 2018-2019 influenza season results: **(208) A/pdmH1N1; (87) A/H3N2; (1) Influenza B;** (through 2/02/2019).

The **National Respiratory and Enteric Virus Surveillance System (NREVSS)** has reported **38,470** influenza tests performed at participating facilities. 2018-2019 influenza season positive results: **(122) A/pdmH1N1, (52) A/H3N2, (3247) Flu A Not Subtyped, and (54) Flu B** (through 2/02/2019).

0 **pediatric influenza-associated mortalities** have been reported during the 2018-2019 season (through 2/02/2019).

No **novel influenza A virus infections** have been reported during the 2018-2019 season (through 2/02/2019).

Incidence of confirmed **influenza-associated hospitalizations** in 2018-2019 season = **2160** (through 2/02/2019).

HHS Regional Surveillance Data*: During week 4 (**January 20th – January 26th, 2019**), the proportion of outpatient visits for ILI in Region 5 (Ohio is in Region 5) was 2.5%, which is **above** the regional baseline of 1.8%. West Virginia and Indiana reported Regional Activity; Michigan, Pennsylvania, Ohio, and Kentucky reported Widespread Activity.

National Surveillance Data*: During week 4 (**January 20th – January 26th, 2019)** Most U.S. States reported Moderate or High influenza activity, though some are reporting Low or Minimal activity. The proportion of outpatient visits for ILI was 3.8%, which is **above** the national baseline of 2.2%. All 10 regions reported ILI at or above their region-specific baseline level. **Influenza A(H1N1)pdm09** viruses have predominated in most areas of the country, however **influenza A(H3)** viruses predominated in the southeastern United States (HHS Region 4)

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

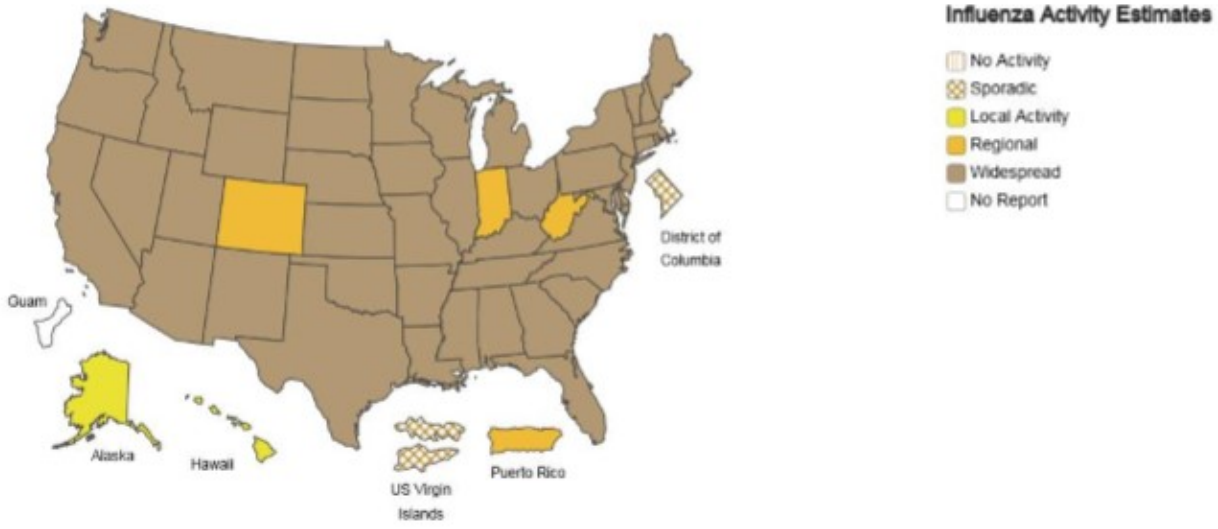
FLUVIEW

CDC

A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Jan 26, 2019 - Week 4



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

Data Sources:

1. **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.
2. **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.
3. **National Retail Data Monitor (NRDM):** NRDM collects over-the-counter medication sales at drug stores located within Medina County. Medication sales are broken down by adult and pediatric.