



Dayton &
Montgomery
County

West Central Ohio (WCO) Regional Seasonal Influenza Activity Report MMWR Week 52 12/23/2018 – 12/29/2018

Weekly Influenza Activity Summary:

Montgomery County (Week 52): The number of influenza-associated hospitalizations increased from week 51 to week 52 but remains below the 5-year baseline average. Of the 61 influenza-associated hospitalizations thus far in the 2018-2019 flu season, nearly half have occurred in individuals < 5 years of age or > 65 years of age. Influenza-related emergency department (ED) activity increased during week 52; the percentage of ED visits for *constitutional syndrome* increased by 9.4%, and the percentage of ED visits attributable to *fever & ILI symptoms* increased by 11.6%. Both indicators were above the 5-year baseline average for week 52. Overall, influenza activity in Montgomery County continues to climb.

West Central Ohio Region (Week 52): Regional influenza-associated hospitalizations increased from week 51 to week 52. The number of outpatient influenza cases has dramatically increased over the past three weeks. Overall, regional influenza activity continues to increase.

Ohio (Week 52): Current Activity Level - Regional

Increased ILI in ≥ 2 but less than half of the regions AND recent (within the last 3 weeks) lab confirmed influenza in the affected regions, OR institutional outbreaks (ILI or lab confirmed) in ≥ 2 but less than half of regions AND recent (within the past 3 weeks) lab confirmed influenza in the affected regions.

The Ohio Department of Health (ODH) has reported the following positive results from flu specimens sent to the ODH laboratory (through 12/29/18): (56) Influenza A/pdmH1N1; (12) Influenza A/H3N2; (1) Influenza B.

National (Week 52): Nationally, influenza activity is elevated and continues to increase. Influenza A(H1N1), influenza A(H3N2), and influenza B viruses continue to co-circulate. Influenza A(H1N1)pdm09 viruses have been most prevalent this flu season. However, influenza A(H3) viruses have predominated in the southeastern United States (HHS Region 4) [Ohio is in HHS Region 5].

For hospitals and other regional healthcare facilities to more accurately monitor influenza in the area, this report will include regional and Montgomery County specific influenza activity. The regional influenza report will include positive influenza cases from healthcare facilities in Auglaize, Butler, Champaign, Clark, Darke, Greene, Miami, Montgomery, Preble, Shelby, and Warren counties (<http://www.gdaha.org/regional-hospital-locator>).

Confirmed Influenza-associated Hospitalizations

MMWR Week	40-49*	50*	51*	52*	2018-2019 Flu Season Total as of 1/4/19
Week Ending	12/8/18	12/15/18	12/22/18	12/29/18	
Auglaize	1	0	1	0	2
Butler	9	2	0	1	12
Champaign	1	0	0	0	1
Clark	0	1	3	1	5
Darke	0	0	0	0	0
Greene	6	0	3	3	12
Miami	0	0	2	3	5
Montgomery	12	16	13	20	61
Preble	2	0	0	0	2
Shelby	0	0	0	0	0
Warren	5	2	4	1	12
Total	36	21	26	29	112

*Numbers may change based on updated ODRS data.

Weekly Regional Outpatient Influenza Cases

MMWR Week	Week Ending	Influenza A	Influenza B	ILI* Reports (Sentinel Providers)	Weekly Total
40-49	12/8/18	42	5	22	69
50	12/15/18	45	0	0	45
51	12/22/18	131	0	0	131
52	12/29/18	224	2	19	245
Season Total	NA	442	7	41	490

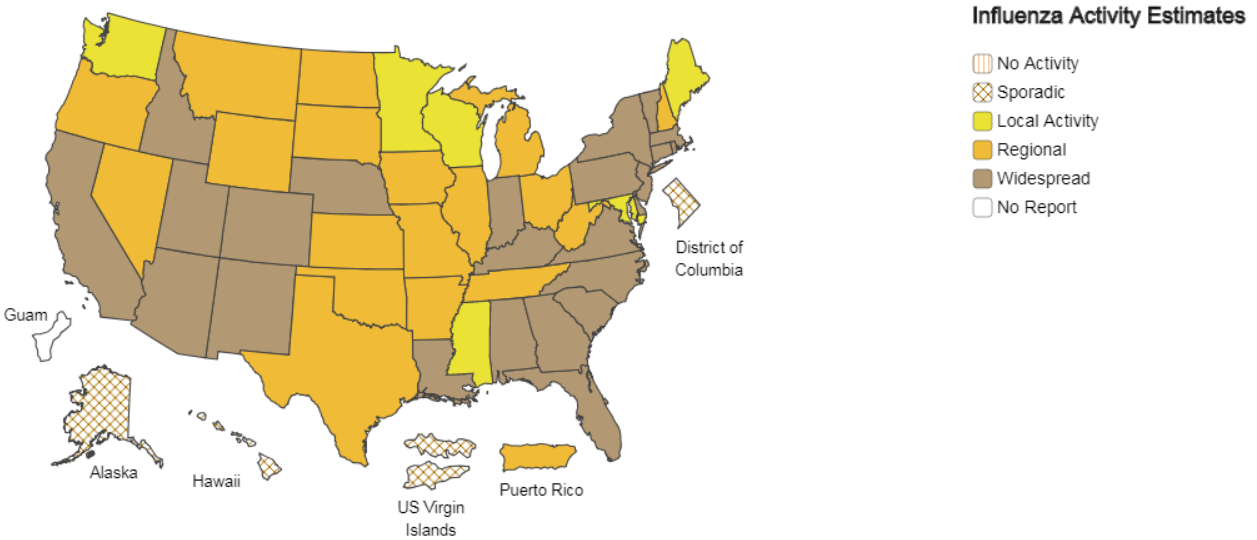
*Influenza-like Illness (ILI)



A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Dec 29, 2018 - Week 52



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

National Influenza Activity Summary <http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>

Additional Surveillance Data & Flu Facts





Flu Facts <http://www.flu.gov/>

Ohio Department of Health Seasonal Influenza Activity Summary <https://odh.ohio.gov/wps/portal/gov/odh/know-our-programs/seasonal-influenza/ohio-flu-activity/>

Montgomery County Seasonal Influenza Activity Summary <http://www.phdmc.org/report/montgomery-county-flu-activity-level>

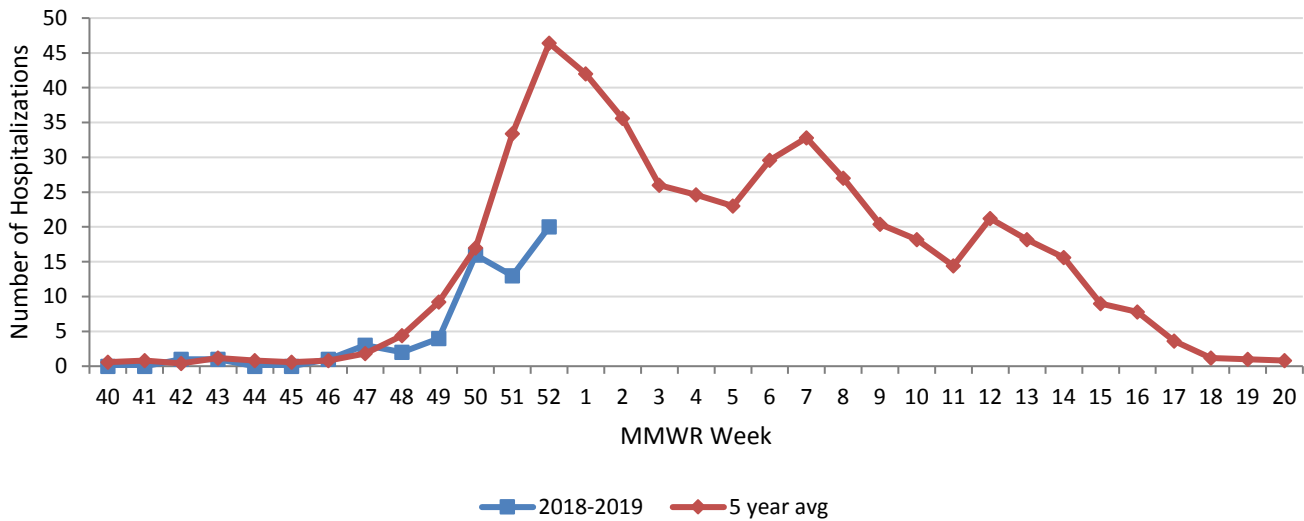
**Montgomery County
Seasonal Influenza Activity Report
MMWR Week 52
12/23/2018 – 12/29/2018**

Montgomery County Weekly Surveillance Data

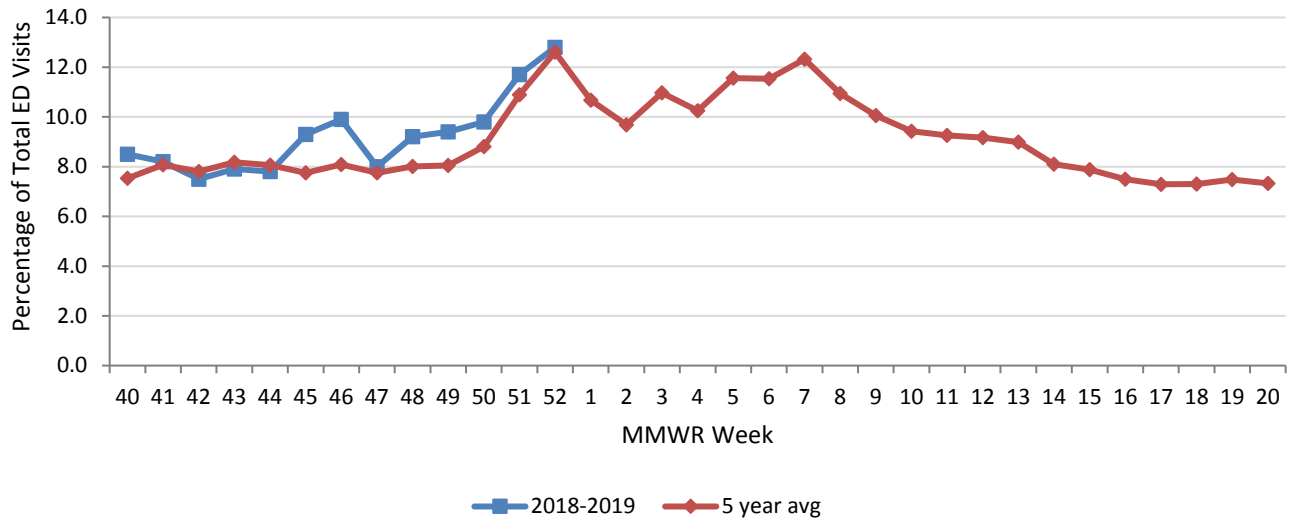
Surveillance Data	Current Week	% Change	Trend
Influenza Hospitalizations	20	53.8%	
% Constitutional ED visits	12.8%	9.4%	
% Fever & ILI ED visits	4.8%	11.6%	
Thermometer sales	67	13.6%	

* Percent change not calculated for small numbers
Dash (-) indicates no change

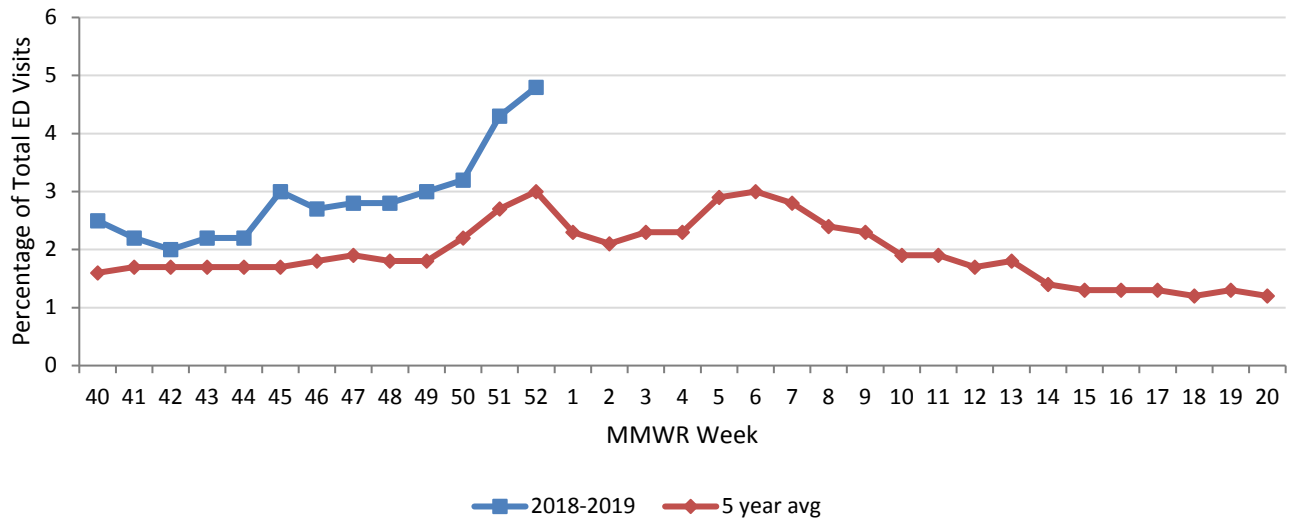
**Montgomery County Confirmed Influenza-associated Hospitalizations
by MMWR Week with 5-Year Baseline Average; 2018-2019**



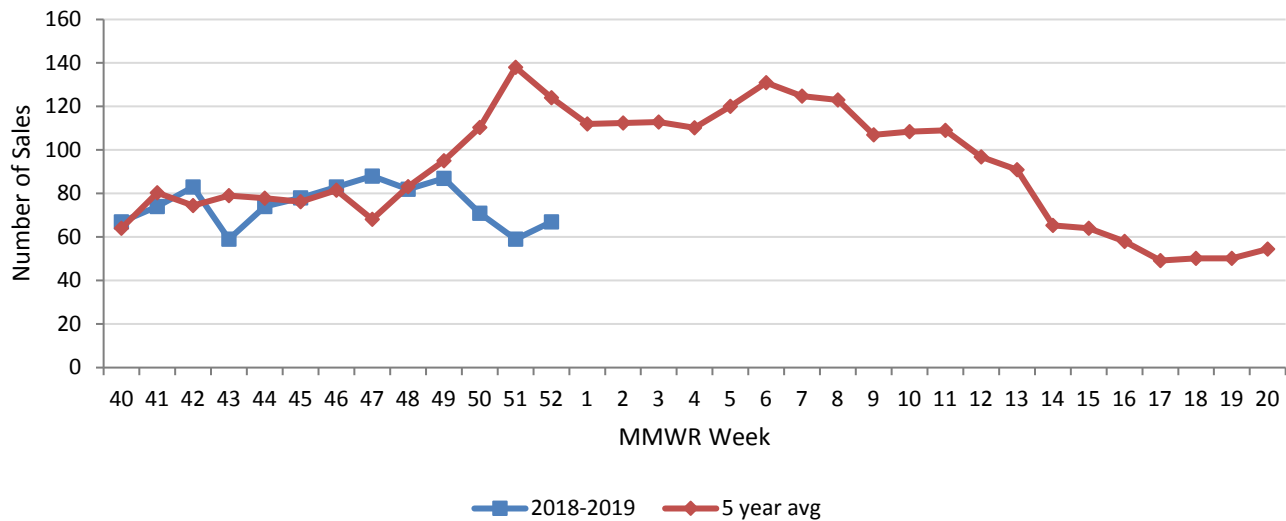
Montgomery County Constitutional ED Visits by MMWR Week with 5-Year Baseline Average; 2018-2019



Montgomery County Fever & ILI Specified ED Visits by MMWR Week with 5-Year Baseline Average; 2018-2019



Montgomery County Thermometer Sales by MMWR Week with 5-Year Baseline Average; 2018-2019



Sources of Influenza Surveillance Data

Six types of data sources are examined on a weekly basis to help determine the influenza activity level for Montgomery County:

National Retail Data Monitor (NRDM)-OTC Drug Purchases: The NRDM collects over-the-counter (OTC) drug sales information from approximately 80 Montgomery County chain drug stores and grocery stores. For influenza surveillance, thermometer sales are monitored on a weekly basis.

Emergency Department Visits (EpiCenter): EpiCenter collects emergency department chief complaint data from hospitals and urgent care facilities across Ohio counties in real time and classifies them into symptom and syndrome categories. Chief complaints from the constitutional syndrome category and the ILI + Fever symptoms classifier are analyzed for influenza surveillance.

Sentinel Providers (ILINet): Sentinel providers, through the US Influenza-like Illness Surveillance Network (ILINet), collect outpatient ILI data. ILI is defined as a fever (> 100 °F), **and** cough and/or sore throat without another known cause. Providers report the total number of patients seen and the number of patients with ILI by age group on a weekly basis. Sentinel providers also submit specimens for influenza testing to the ODH laboratory throughout the influenza season.

Laboratory Surveillance: Positive laboratory reports are forwarded to local health departments. Generally, specimens are submitted by health care providers or hospitals.

Influenza-associated Hospitalizations (ODRS): Influenza-associated hospitalizations are reported to local health departments for entry into 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 2009.

Influenza-associated Pediatric Mortality (ODRS): Influenza-associated pediatric mortalities are reported to local health departments for entry into ODRS. Pediatric deaths can be an indicator of the severity of illness during the influenza season. This condition became reportable in 2005.

For further information or questions, please contact Public Health – Dayton & Montgomery County, Epidemiology Department at epi@phdmc.org or 937-224-3691.

Completed by PHDMC Epidemiology Department, on January 4, 2019