



Miami County Public Health

Prevent. Promote. Protect.

2018 Influenza Report

February 15, 2019

Prepared by Miami County Public Health

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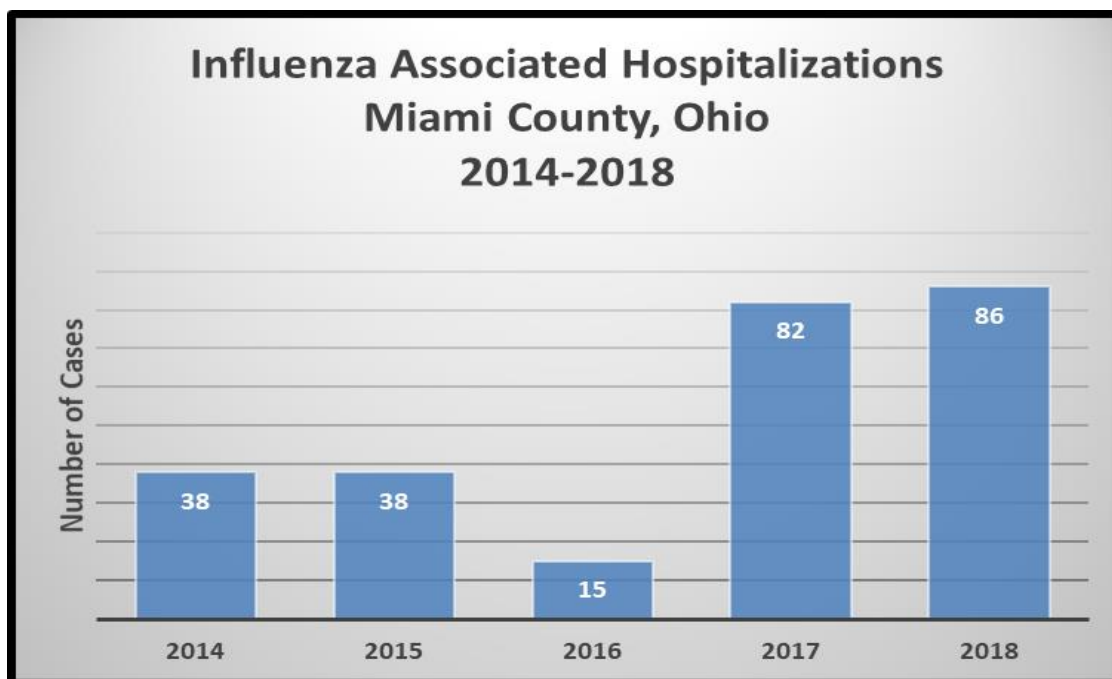
MIAMI COUNTY

2018 Influenza Year

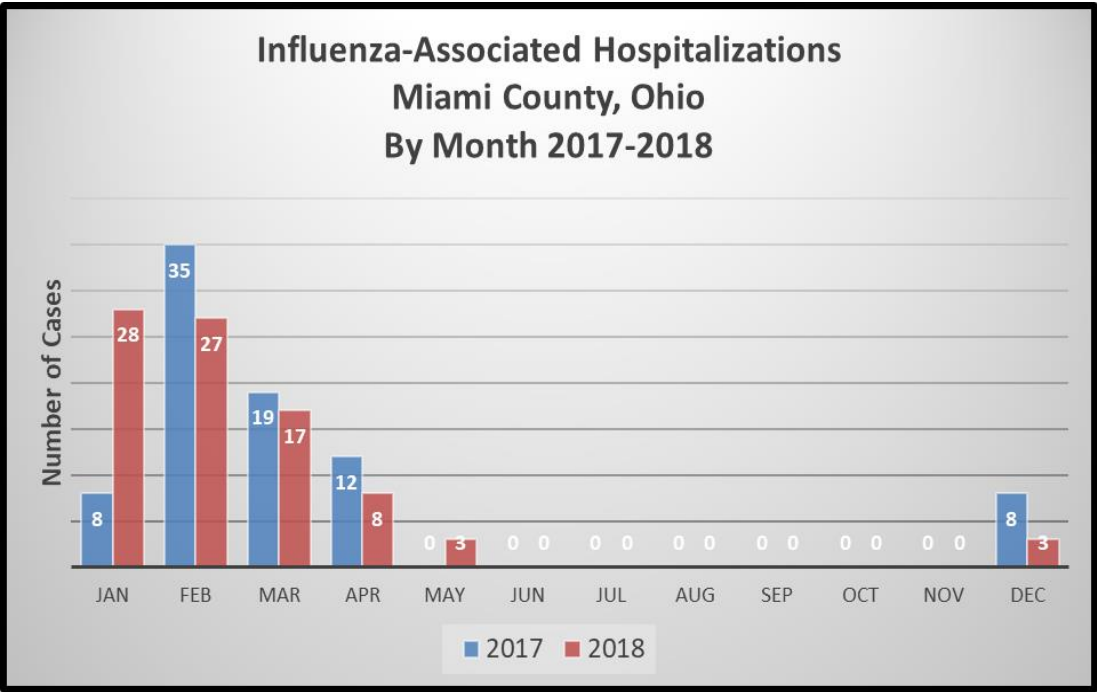
Influenza (flu) is a contagious respiratory illness caused by influenza viruses. It can cause mild to severe illness. Serious outcomes of flu infection can result in hospitalization or death. Some people, such as older people, young children, and people with certain health conditions, are at high risk of serious flu complications. The best way to prevent the flu is getting vaccinated each year.(1)

Symptoms for influenza include fever, body aches, headache, malaise, nonproductive cough, sore throat, and runny nose. The influenza virus is spread by direct person-to-person contact through droplets.

Measures of dispersion tools such as bar graphs and line graphs provide frequency distributions to make comparisons between years. Influenza associated hospitalizations cases are provided by the Ohio Disease Reporting System (ODRS) linked to the Ohio Department of Health.



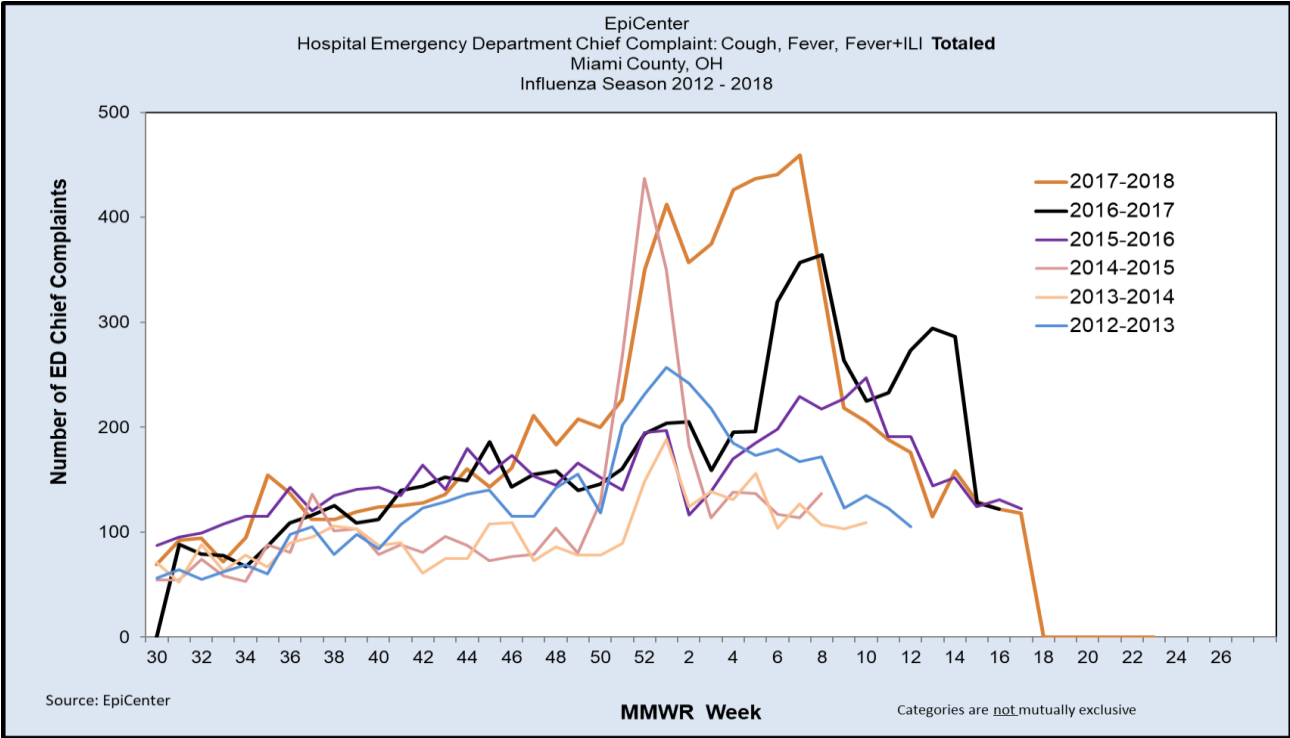
Eighty six influenza-associated hospitalizations were recorded for 2018 compared to eighty two cases in 2017. Three influenza outbreaks were recorded at long term care facilities which may have contributed to the increase of influenza. One death was recorded from complications of influenza.



Though the last two graphs provided comparison from year to year, influenza is typically measured by influenza season that runs from the fall to spring of the next year.

During the 2017-2018 season, influenza-like-illness (ILI) activity began to increase in November, reaching an extended period of high activity during January and February nationally, and remained elevated through the end of March. ILI peaked at 7.5%, the highest percentage since the 2009 flu pandemic, which peaked at 7.7%. Influenza-like illness (ILI) was at or above the national baseline for 19 weeks, making the 2017-2018 season one of the longest in recent years. (2)

EpiCenter is an electronic surveillance system for the chief complaint that is presented by the patient in an emergency room visit. ILI (Influenza Like Illness) is a hospital emergency department chief complaint associated with influenza that includes cough and fever. The following line chart provides trend analysis for ILI for the past six influenza seasons.



The West Central Ohio area also experienced an increase of influenza compared to the previous year. The counties in West Central Ohio are highlighted in yellow.

Influenza-Associated Hospitalizations, Ohio 2017-2018 Season*								
County	Influenza-Associated Hospitalizations	Percent of All Influenza-Associated Hospitalizations	Rate per 100,000 Population†		County	Influenza-Associated Hospitalizations	Percent of All Influenza-Associated Hospitalizations	Rate per 100,000 Population†
ADAMS	11	0.1%	38.53		LOGAN	21	0.1%	45.79
ALLEN	214	1.2%	201.26		LORAIN	310	1.8%	102.87
ASHLAND	51	0.3%	95.97		LUCAS	738	4.2%	167.04
ASHTABULA	115	0.7%	113.30		MADISON	93	0.5%	214.11
ATHENS	57	0.3%	88.02		MAHONING	445	2.6%	186.33
AUGLAIZE	64	0.4%	139.28		MARION	151	0.9%	227.06
BELMONT	60	0.3%	85.23		MEDINA	253	1.5%	146.81
BROWN	7	0.0%	15.61		MEigs	24	0.1%	100.97
BUTLER	521	3.0%	141.53		MERCER	58	0.3%	142.11
CARROLL	70	0.4%	242.75		MIAMI	124	0.7%	120.97
CHAMPAIGN	60	0.3%	149.64		MONROE	13	0.1%	88.79
CLARK	353	2.0%	255.18		MONTGOMERY	989	5.7%	184.81
CLERMONT	297	1.7%	150.48		MORGAN	12	0.1%	79.71
CLINTON	38	0.2%	90.39		MORROW	46	0.3%	132.08
COLUMBIANA	165	0.9%	153.00		MUSKINGUM	134	0.8%	155.68
COSHOCTON	22	0.1%	59.62		NOBLE	16	0.1%	109.25
CRAWFORD	38	0.2%	86.79		OTTAWA	69	0.4%	166.55
CUYAHOGA	2764	15.9%	215.92		PAULDING	24	0.1%	122.36
DARKE	92	0.5%	173.72		PERRY	29	0.2%	80.43
DEFIANCE	35	0.2%	89.66		PICKAWAY	95	0.5%	170.56
DELAWARE	143	0.8%	82.08		PIKE	36	0.2%	125.40
ERIE	121	0.7%	156.98		PORTAGE	222	1.3%	137.53
FAIRFIELD	85	0.5%	58.16		PREBLE	49	0.3%	115.92
FAYETTE	17	0.1%	58.56		RUTNAM	44	0.3%	127.54
FRANKLIN	1270	7.3%	109.16		RICHLAND	141	0.8%	113.28
FULTON	54	0.3%	126.47		ROSS	120	0.7%	153.72
GALLIA	37	0.2%	119.61		SANDUSKY	83	0.5%	136.19
GEAUGA	130	0.7%	139.20		SCIOTO	129	0.7%	162.27
GREENE	272	1.6%	168.34		SENECA	51	0.3%	89.88
GUERNSEY	56	0.3%	139.70		SHELBY	58	0.3%	117.35
HAMILTON	1128	6.5%	140.58		STARK	700	4.0%	186.38
HANCOCK	83	0.5%	110.99		SUMMIT	1183	6.8%	218.35
HARDIN	41	0.2%	127.89		TRUMBULL	363	2.1%	172.60
HARRISON	9	0.1%	56.73		TUSCARAWAS	122	0.7%	131.78
HENRY	41	0.2%	145.31		UNION	57	0.3%	108.99
HIGHLAND	51	0.3%	117.00		VAN WERT	14	0.1%	48.71
HOCKING	25	0.1%	85.09		VINTON	18	0.1%	133.98
HOLMES	34	0.2%	80.25		WARREN	269	1.5%	126.47
HURON	71	0.4%	119.08		WASHINGTON	112	0.6%	181.29
JACKSON	70	0.4%	210.68		WAYNE	176	1.0%	153.68
JEFFERSON	173	1.0%	248.17		WILLIAMS	54	0.3%	143.46
KNOX	54	0.3%	88.64		WOOD	200	1.1%	159.38
LAKE	268	1.5%	116.50		WYANDOT	25	0.1%	110.55
LAWRENCE	52	0.3%	83.27		UNKNOWN	0	0.0%	*
LICKING	208	1.2%	124.93		TOTAL	17397	100%	150.80

*2017-2018 Season 10/1/2017 thru 9/30/2018

† Disease rates were calculated by number of cases per 100,000 residents using 2010 census data.

Source: Ohio Disease Reporting System

According to the Center for Diseases Center (CDC), the 2017–18 flu season was a high severity season with high levels of outpatient clinic and emergency department visits for flu-like illness, high flu-related hospitalization rates, and elevated and geographically widespread flu activity across the United States for an extended period.(3) Miami County also experienced widespread flu activity in schools, long term care facilities, and the general public. Miami County Public Health must continue to strongly recommend flu vaccination to all of their patients whether they visit a provider or visit the many convenient places such as pharmacies, after hour's clinics, and other health care clinics.

1. Centers for Disease Control and Prevention, Retrieved February 12, 2019 at <https://www.cdc.gov/flu/about/index.html>

2. Centers for Disease Control and Prevention, Retrieved February 13, 2019 at <https://www.cdc.gov/flu/about/season/flu-season-2017-2018.htm>

3. Garten R, Blanton L, Elal A, et al. Update: influenza activity in the United States during the 2017-18 season and composition of the 2018-19 influenza vaccine. MMWR 2018 Jun 8;67(22):634-42.