

Summary of 2018-19 Hospitalized Influenza Cases in Washtenaw Residents

Overall: This was a moderate to severe flu season which was predominated by influenza A (96%), with A/H1N1 circulating earlier, followed by A/H3 later in spring. Influenza B (4%) viruses circulated at low levels as well. Flu season activity started increasing in December 2018, reaching its largest peak in March, and extending into May 2019. The vaccine was a low to moderate match this season, with a 29% overall vaccine effectiveness reported by the CDC (June 2019). This low effectiveness was, in part, due to a poor vaccine match against the influenza A/H3 which circulated in spring 2019.

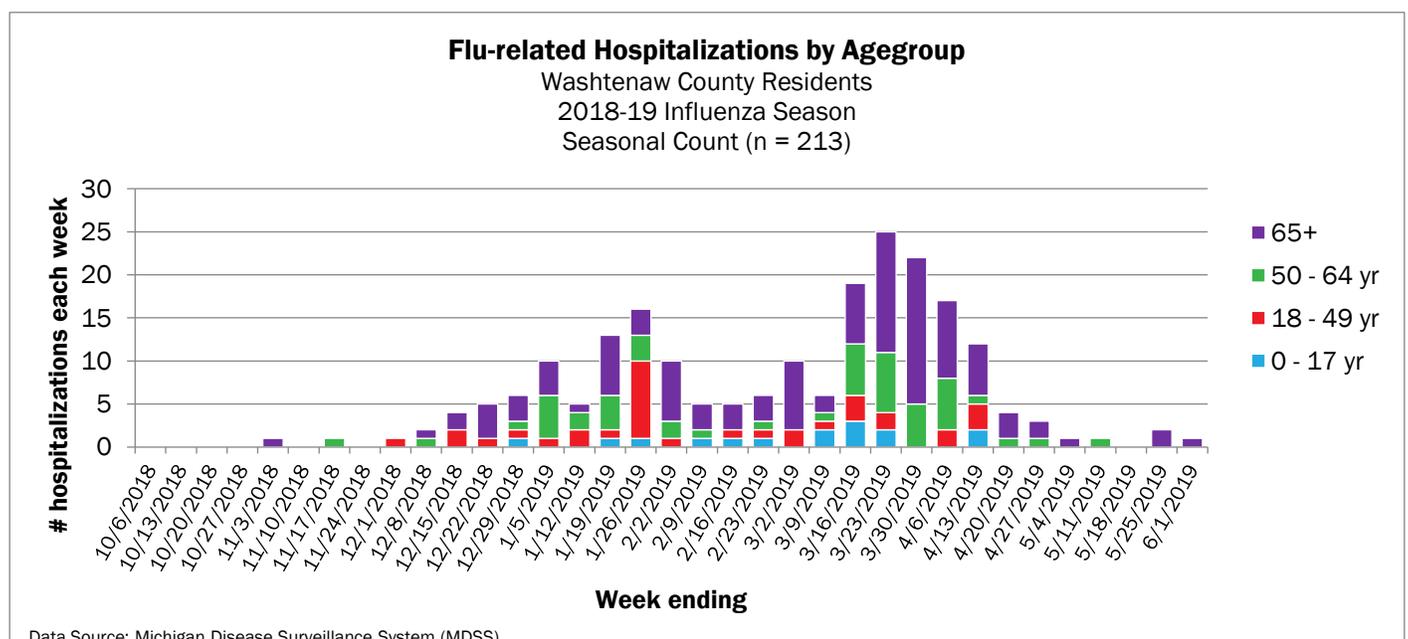
Flu-related hospitalizations high. 213 residents of Washtenaw County had influenza-related hospitalizations in the 2018-19 influenza season. A majority of the hospitalizations were in individuals over 65 years old (54%), however the A/H1N1 peak in early 2019 led to more hospitalizations in younger adults as well. Almost all adults who were hospitalized (95%) had an underlying high-risk health condition (including obesity). Obesity was reported in 33% of adults who were hospitalized from flu-related illness. There were 9 flu-related deaths reported in adults, with an age range of 24 to 87 years.

Facility outbreaks: During this season, six (6) outbreaks of influenza A were reported in Washtenaw County long-term care and assisted living facilities.

Influenza in Washtenaw children. 7% percent of hospitalizations in the 2018-19 season occurred in children and teens (0 -17 years). Unfortunately, there was one flu-related death in a Washtenaw County child, who was not able to be vaccinated against flu. Of hospitalized children, 73% had an underlying high-risk health condition; however, only 40% were vaccinated against flu.

Total hospitalizations	ICU Admissions	Adult Flu-Associated Deaths*	Child Flu-Associated Death
213	8%	9	1

*The deaths in adults were 24-87 years of age. All had high-risk underlying health conditions. Deaths are associated with both Influenza A/H3 and A/H1N1.



- **Ages of hospitalized cases (range = 1 month to 102 years)**
 - 0-4 years = 3%
 - 5-17 years = 4%
 - 18-49 years = 16%
 - 50-64 years = 23%
 - 65-74 years = 23%
 - 75+ years = 34%
- **Influenza-strains in hospitalized cases**
 - A (not subtyped) = 60%
 - A/H3 = 16%
 - A/H1N1 = 20%
 - B = 4%
- **Underlying conditions in flu-related hospitalized cases (children)**
 - 73%
- **Underlying conditions in flu-related hospitalized cases (adults)**
 - High risk conditions, including obesity and pregnancy = 95%
 - Asthma = 17%
 - Diabetes = 24%
 - Obesity = 33%
- **Length of hospitalization**
 - Range: 1 – 55 days
 - Median: 3 days
 - Mean (average): 5 days

% of total hospitalized cases	Area within Washtenaw County
41%	Ypsilanti (48197, 48198)
36%	Ann Arbor (48103, 48104, 48105, 48108)
11%	Saline/Milan/Willis (48176, 48160, 48190)
9%	Chelsea/Dexter/Manchester (48118, 48130, 48137, 48158)
2%	Whitmore Lake/Northfield/Salem (48178, 48189)

- **Race of Hospitalized patients**
 - Asian = 5%
 - Black or African American = 20%
 - White or Caucasian = 71%

➤ **Flu vaccine status of hospitalized Washtenaw residents**

Age group	% vaccinated	% not vaccinated	% vaccine status unknown*
6mo – 17 years	40%	60%	0%
18 – 49 years	32%	15%	52%
50 – 64 years	49%	16%	35%
65 – 74 years	63%	7%	29%
75 yrs and older	51%	8%	40%

*Entry of adult flu vaccine into Michigan Care Improvement Registry (MCIR) is not yet mandatory