

Summary of 2016-17 Hospitalized Influenza Cases in Washtenaw Residents

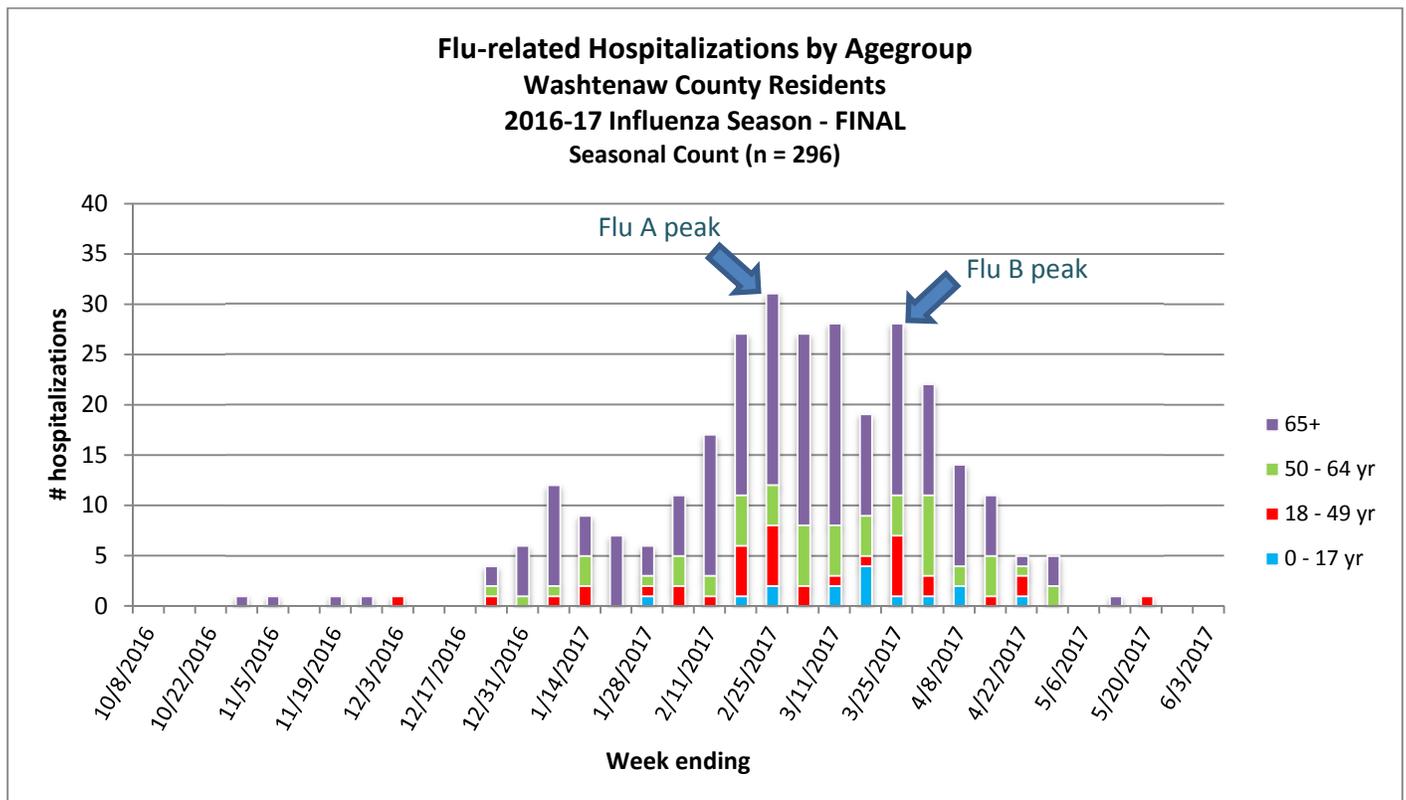
Overall: This was a moderately severe flu season which was dominated by influenza A/H3. Influenza B viruses circulated as well, especially in March and April. Flu season activity remained low until January 2017, reached peak levels in late February and March, and finally slowed in May 2017. The vaccine was a decent match this season with a 42% overall vaccine effectiveness reported by the CDC (preliminary data reported June 2017).

Flu-related hospitalizations high. Since tracking began in 2009, this is the second highest number of hospitalized Washtenaw residents during a flu season. The majority of the hospitalizations were in individuals over 65 years old (64%). Ten flu-related deaths were reported in adults. Most adults who were hospitalized had an underlying health condition (94%). Diabetes was reported in 30% of adults who were hospitalized from flu-related illness.

Influenza in Washtenaw children. 5% percent of hospitalizations this season were in children (0 to 17 years). There was one flu-related death in a Washtenaw child; the first one reported in over a decade. For 0 – 4 year olds, who are often at higher risk for severe disease, the local rate of flu hospitalization this season was 84% lower than the Michigan rate for the same age group. The flu vaccine rate for all Washtenaw children ages 6 months to 4 years was 68%, the highest in Michigan, and likely contributed to this low hospitalization rate.

Total hospitalizations	ICU Admissions	Adult Flu-Associated Deaths*	Child Flu-Associated Deaths
296	10%	10	1

**The deaths were in adults 64 to 94 years of age. All had high-risk underlying health conditions. Deaths were associated with both Influenza A and B.*



- **Ages of hospitalizes cases (range = 3 years to 102 years)**
 - 0-4 years = 0.7%
 - 5-17 years = 4%
 - 18-49 years = 12%
 - 50-64 years = 19%
 - 65-74 years = 24%
 - 75+ years = 39%
- **Influenza-strain**
 - A (not subtyped) = 46%
 - AH3 = 21%
 - B = 33%
- **Underlying conditions in flu-related hospitalized cases (children) = 87%**
- **Underlying conditions in flu-related hospitalized cases (adults)**
 - High risk conditions, include obesity = 94%
 - Asthma = 20%
 - Diabetes = 30%
 - Obesity = 30%
 - Pregnancy = 1%
- **Length of hospitalization**
 - Range: 1 to 42 days
 - Median: 3 days
 - Mean (average): 4 days
- **Geographic distribution (based on residence)**

% of total hospitalized cases	Area within Washtenaw County
39%	Ypsilanti (48197, 48198)
29%	Ann Arbor (48103, 48104, 48105, 48108)
16%	Chelsea/Dexter/Manchester (48118, 48130, 48158)
13%	Saline/Milan/Willis (48176, 48160, 48191)
4%	Whitmore Lake/Northfield/Salem (48189, 48170, 48178)

- **Race of Hospitalized patients (n = 290 cases with known race)**
 - Asian = 2%
 - Black or African American = 19%
 - White or Caucasian = 78%
- **Flu vaccine status of hospitalized Washtenaw residents**

Age group	% vaccinated	% not vaccinated	% vaccine status unknown*
6mo – 17 years	47%	53%	0%
18 – 49 years	46%	11%	43%
50 – 64 years	60%	11%	30%
65 – 74 years	55%	5%	40%
75 yrs and older	54%	9%	36%

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