



### Summary of 2015-16 Hospitalized Influenza Cases in Washtenaw Residents

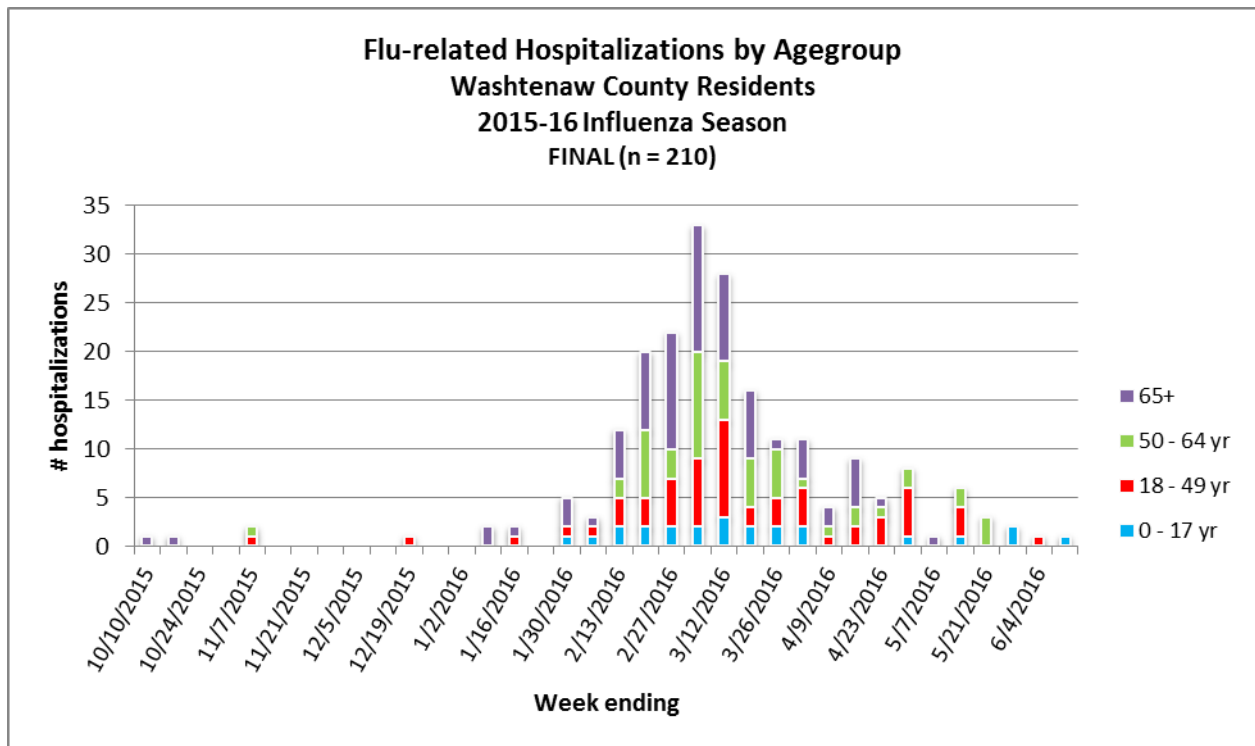
**Overall:** This was a moderately severe flu season which was dominated by influenza A/H1N1. Influenza B viruses circulated as well, especially in April and May. The season peaked late, starting in January 2016 and extending into June 2016. The vaccine was a decent match this season with a 47% overall vaccine effectiveness reported by the CDC (preliminary data through April 2016).

**Flu-related hospitalizations high.** The majority of hospitalizations were in young and middle-aged Washtenaw adults. Flu-related deaths were reported for four adults. Almost all adults hospitalized (91%) had a high-risk underlying health condition. Obesity was the most frequent risk identified at 46% of hospitalized adults, an obesity rate much higher than the overall Washtenaw adult population (22% obese – HIP Survey 2015).

**Influenza in Washtenaw children.** Children represented 12% of local flu hospitalizations. However, for 0 – 4 year olds who are often at higher risk for severe disease, the local rate of hospitalization was 30% lower than the rate in Michigan for this age group in the 2015-16 season. The flu vaccine rate for all Washtenaw children 6 months – 4 years was 68%, the highest in Michigan, likely contributing to the lower hospitalization rate.

Total hospitalizations	ICU Admissions	Adult Flu-Associated Deaths*	Child Flu-Associated Deaths
210	17%	4	0

*\*The deaths were in adults 32 - 85 years of age. Most had high-risk underlying health conditions. Influenza A was confirmed in all cases.*



- **Ages of hospitalized cases** (range = 2 months – 92 years):
  - 0 – 4 years = 7%
  - 5 – 17 years = 5%
  - 18 – 49 years = 27%
  - 50 – 64 years = 25%
  - 65 - 74 years = 18%
  - 75+ years = 19%
  
- **Influenza strain of Washtenaw hospitalized cases:**
  - A (not subtyped) = 50%
  - A/H1N1 = 27%
  - A/H3 = 4%
  - B = 19%
  
- **Underlying conditions in flu-related hospitalized cases** (children 0 – 17 yrs)
  - One or more underlying high-risk condition = 72%
  
- **Underlying conditions in flu-related hospitalized cases** (adults 18 years and older)
  - One or more underlying high-risk condition (including obesity) = 91%
  - Asthma = 24%
  - Diabetes = 33%
  - Obese (BMI ≥ 30) = 46%
  - Pregnancy = 2%
  
- **Length of hospitalization**
  - Range: 1 – 58 days
  - Median: 3 days
  - Mean (average): 5 days

<b>% of total hospitalized cases</b>	<b>Area within Washtenaw County</b>
46%	<b>Ypsilanti</b> (48197, 48198)
27%	<b>Ann Arbor</b> (48103, 48104, 48105, 48108)
11%	<b>Saline/Milan/Willis</b> (48176, 48160, 48191)
10%	<b>Chelsea/Dexter/Manchester</b> (48118, 48130, 48158)
5%	<b>Whitmore Lake/Northfield/Salem</b> (48189, 48170, 48178)

- **Race of adult hospitalized patients** (n = 182)
  - African-American or Black = 25%
  - Asian-American = 2%
  - Caucasian or White= 72%
  
- **Flu vaccine status of hospitalized Washtenaw residents**

<b>Age group</b>	<b>% vaccinated</b>	<b>% not vaccinated</b>	<b>% vaccine status unknown*</b>
6mo – 17 years	67%	33%	0%
18 – 49 years	23%	27%	50%
50 – 64 years	38%	13%	48%
65 – 74 years	50%	13%	37%
75 yrs and older	59%	13%	28%

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