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Cleveland Department of Public Health

Cuyahoga County Public Health Collaborative

# Influenza Surveillance

## 2011-2012 Weekly Summary

### MMWR Week 40 (10/02/2011-10/08/2011)

This report is intended to provide an overview of influenza related activity occurring within Cuyahoga County while providing some general information on the state activity. It will be published on a weekly basis and can be found at the following web site:

[http://www.ccbh.net/ccbh/opencms/CCBH/pdf/ESI\\_Docs/2010flusurv.pdf](http://www.ccbh.net/ccbh/opencms/CCBH/pdf/ESI_Docs/2010flusurv.pdf)

*Note: Data are provisional and subject to change. Updates will be included in future reports.*

#### Ohio's Activity Level: No Activity

No laboratory-confirmed cases of influenza and no reported increase in the number of cases of influenza-like illness (ILI).

#### Pneumonia and Influenza (P&I) Mortality

For MMWR week 40, 5.7% of all deaths reported to the Cleveland Bureau of Vital Statistics were due to pneumonia. Adults 75 years old and older accounted for 69.2% of the pneumonia related deaths. No influenza related deaths were reported during week 40 (**Figure 1**).

#### Influenza-Like Illness (ILI) Reports

No ILI Sentinel Providers in Cuyahoga County reported for week 40. Statewide ILI Sentinel Providers reported 0.49% of patients had ILI signs and symptoms (**Figure 2**). ILI is defined as a fever ( $\geq 100^{\circ}$  F), **and** cough and/or sore throat.

#### School Absenteeism

Participating schools in Cuyahoga County reported the percentage (median = 2.1%) of absenteeism *due to any illness* on Tuesday for week 40 (**Figure 3A**). **Figure 3B** shows the total absenteeism *due to any reason* during the school week (median = 3.3%). Data were reported by participating schools throughout Cuyahoga County.

#### Influenza-Associated Hospitalizations and Influenza-Associated Pediatric Mortality

No confirmed cases of influenza-associated hospitalization in Cuyahoga County or Ohio were reported during week 40 (**Figure 4**).

#### Emergency Department (ED) visits and Over-the-Counter Medication Sales

Two syndromic surveillance systems, RODS and EpiCenter, are used to provide weekly tracking of the number of visits to hospital emergency departments (ED) and over-the-counter (OTC) pediatric medication and thermometer average sales throughout Cuyahoga County drugstores. Approximately 40 more patients visited EDs for ILI and fever symptoms this year compared to 2010 during week 40 (**Figure 5**). **Figure 6** shows approximately 45 fewer OTC products per drugstore were purchased this year than in the same period in 2010 to treat symptoms of influenza in children.

For more information on national and world surveillance please refer to the Centers for Disease Control and Prevention at [www.cdc.gov/flu/weekly](http://www.cdc.gov/flu/weekly).

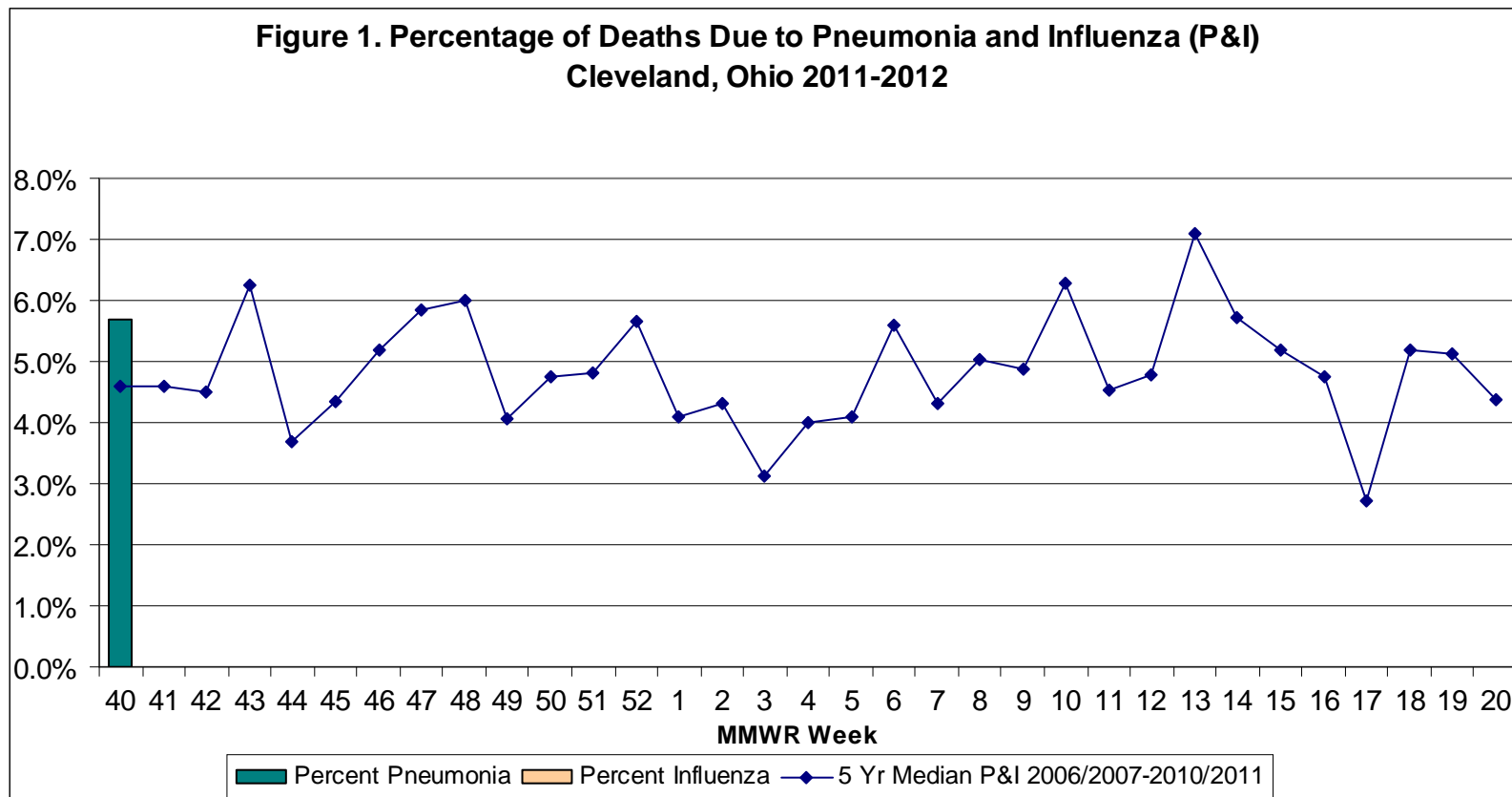
**Table 1. Summary of Cuyahoga County Influenza Data**

Influenza (Flu) Indicator	Current Activity Level	Activity Compared to Last Week	# Weeks <sup>12</sup> ▲ ● ▼	General Trend for the Season
Percentage of deaths due to influenza & pneumonia - Cleveland [Figure 1]	Pneumonia: 5.7% Influenza: 0.0%	N/A	N/A	N/A
Influenza like illness (ILI) doctor visits [Figure 2]	Cuyahoga: N/A Ohio: 0.49%	N/A	N/A	N/A
School absenteeism due to <b>ILLNESS ONLY</b> – sites recruited within last three years [Figure 3A]	Northeast: 1.8% Northwest: 2.4% Southwest: 2.0%	N/A	N/A	N/A
School absenteeism due to <b>ALL CAUSES</b> – sentinel sites [Figure 3B]	N/A	N/A	N/A	N/A
School absenteeism due to <b>ALL CAUSES</b> – sites recruited within last three years [Figure 3B]	Northeast: 2.8% Southeast: 3.3% Southwest: 2.4%	N/A	N/A	N/A
Influenza associated hospitalizations [Figure 4]	<b>0</b>	N/A	N/A	N/A
Emergency room visits due to ILI. [Figure 5]	<b>154</b>	N/A	N/A	N/A
Sales of over-the-counter medications used to treat ILI. [Figure 6]	<b>143</b>	N/A	N/A	N/A

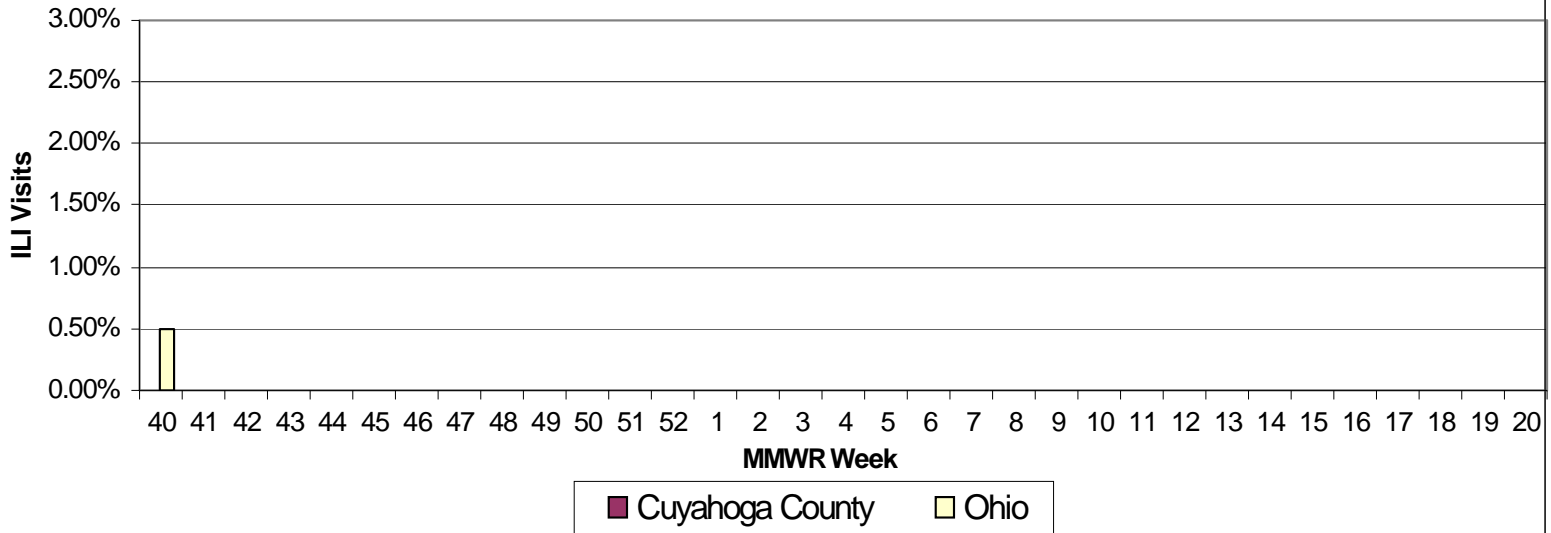
<sup>1</sup>For figures 1 – 3B, ▲ = (Increase ≥ 0.5%), ▼ = (Decrease ≥ 0.5%), ● = Stable (-0.49% to +0.49%)

<sup>2</sup>For figures 4 – 6, ▲ = (Increase ≥ 5.0%), ▼ = (Decrease ≥ 5.0%), ● = Stable (-4.9% to +4.9%)

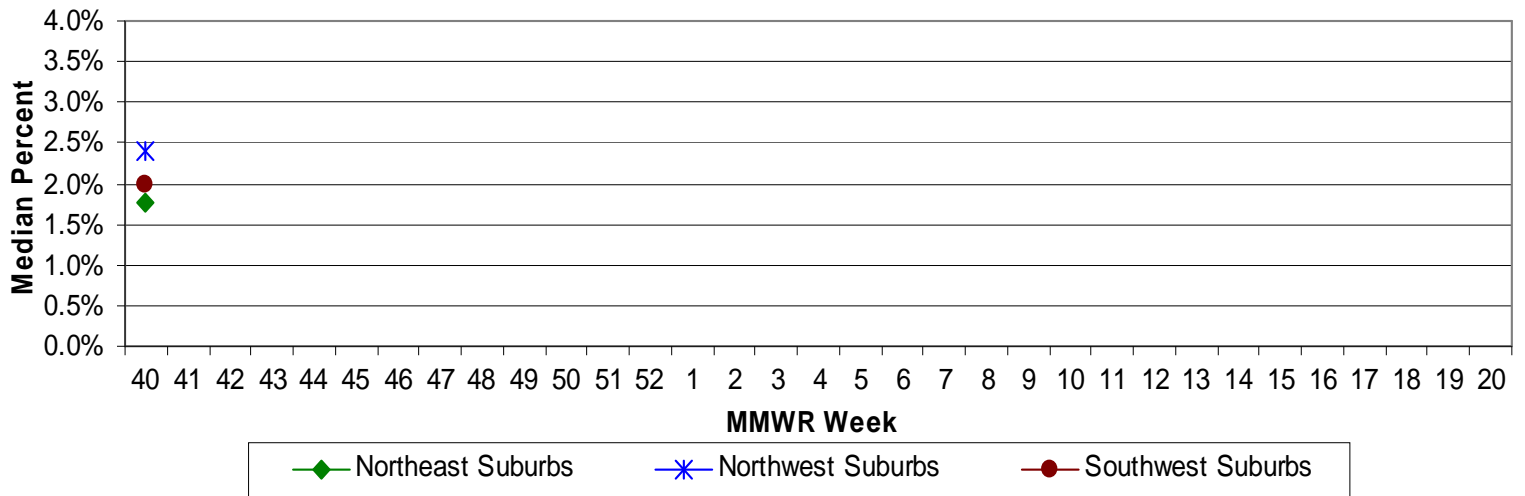
**Figure 1. Percentage of Deaths Due to Pneumonia and Influenza (P&I)  
Cleveland, Ohio 2011-2012**



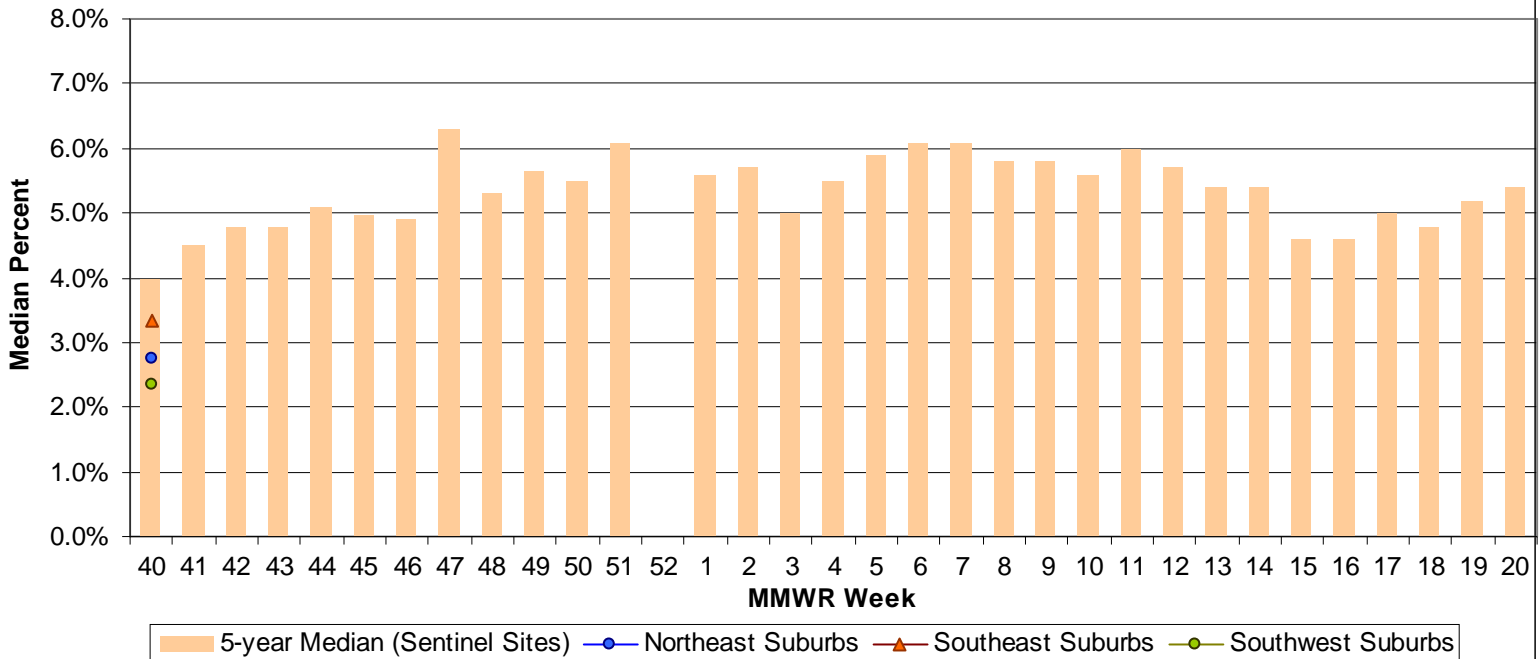
**Figure 2. Percent of Influenza-Like Illness (ILI) Visits, U.S. Influenza Sentinel Provider Surveillance Network 2011-2012**



**Figure 3A. School Absenteeism (Due to any Illness) in Cuyahoga County 2011 - 2012**



**Figure 3B. School Absenteeism (Due to any Reason) in Cuyahoga County, 2011-2012**



**Figure 4. Number of Influenza-Associated Hospitalizations in Cuyahoga County (using reported to ODH date) 2011-2012**

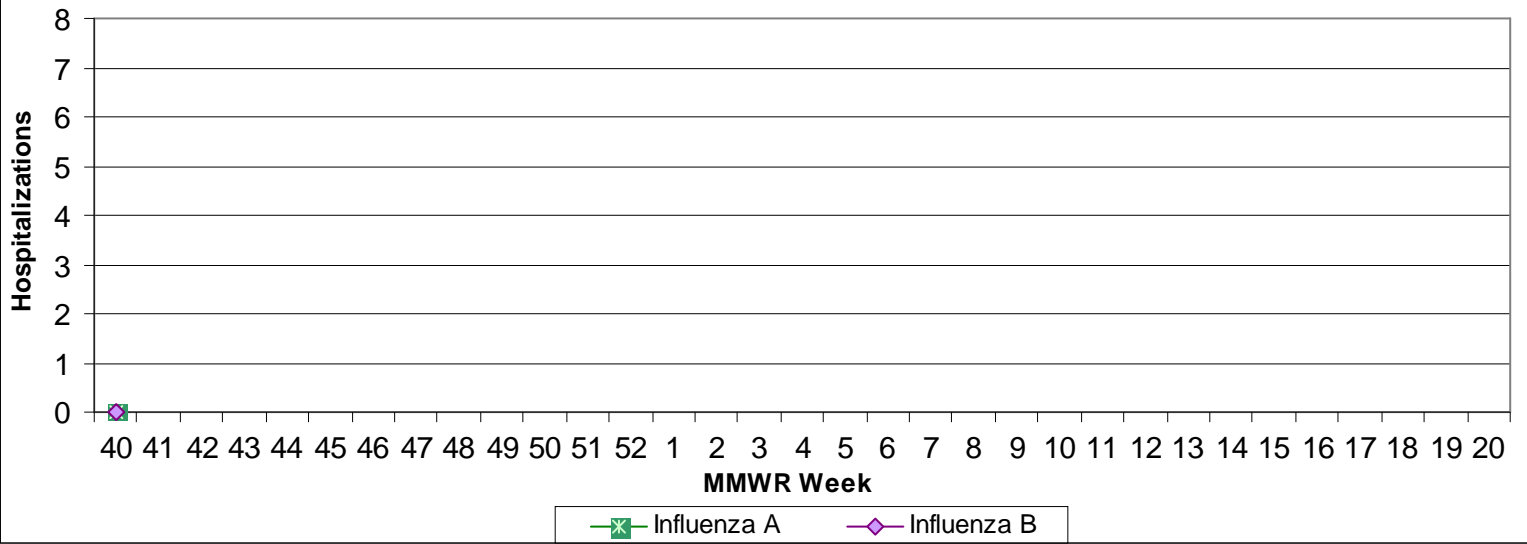
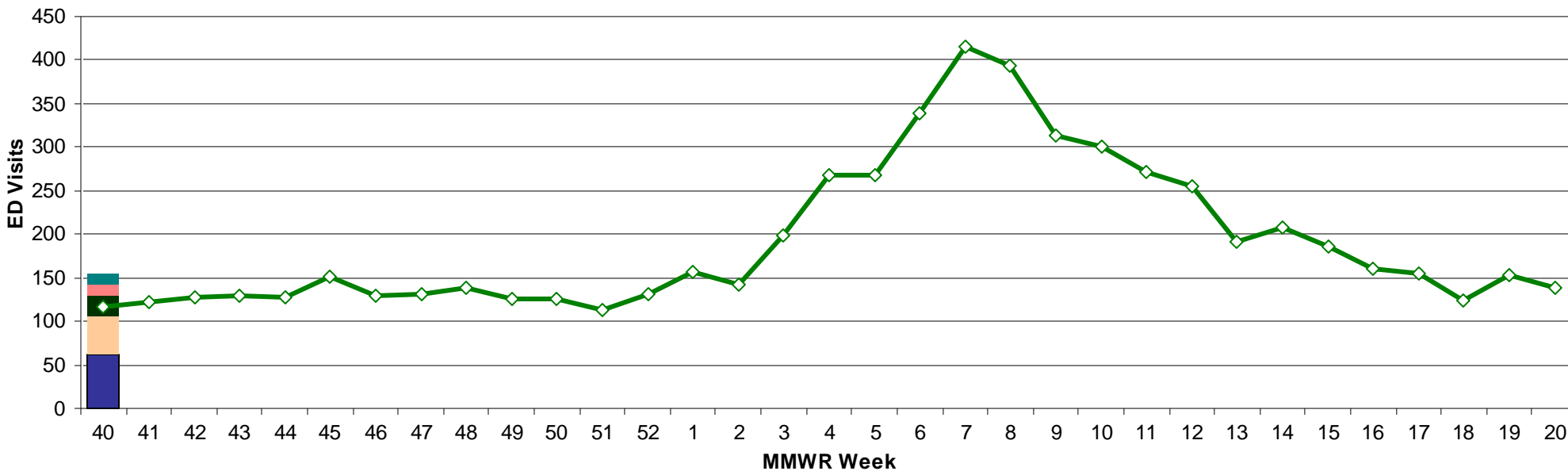
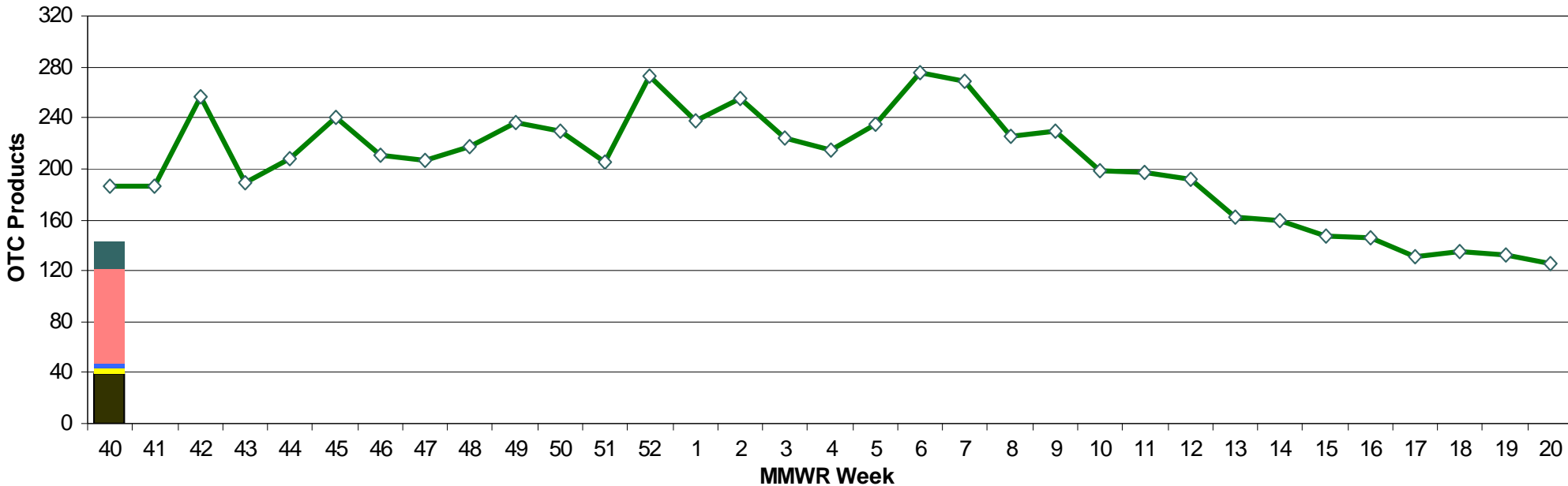


Figure 5. Comparison of Cuyahoga County Hospital ED Visits for ILI and Fever Symptoms by Age Group 2010-11 vs. 2011-12



■ 0 to 4 Years Old   
 ■ 5 to 24 Years Old   
 ■ 25 to 49 Years Old   
 ■ 50 to 64 Years Old   
 ■ 65 Years and Older   
 ◆ Total ED Visits (10-11)

Figure 6. Comparison of Average Weekly OTC Products Sold in Cuyhaoga County Drugstores



■ Antifever   
 ■ Cold\_liquid\_ped   
 ■ Cold\_tablet\_ped   
 ■ Cough\_syrup\_ped   
 ■ Electrolytes\_ped   
 ■ Thermometers   
 ◆ Total OTC Products (10-11)