2012–2013 Influenza Season Epidemiology

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Epidemiology Overview

• Influenza activity peaked in late December 2012
• Predominately influenza A (H3N2) viruses
• Moderately severe season
• Compared to recent seasons
  – More outpatient visits for influenza-like illness
  – Higher hospitalization rates
  – More deaths attributed to pneumonia and flu
Pneumonia and Influenza Mortality for 122 U.S. Cities
Week Ending August 10, 2013
Number of Influenza-Associated Pediatric Deaths by Week of Death: 2009-10 season to present

- **2009-10**
  - Number of Deaths Reported = 282

- **2010-11**
  - Number of Deaths Reported = 123

- **2011-12**
  - Number of Deaths Reported = 35

- **2012-13**
  - Number of Deaths Reported = 158

![Graph showing weekly deaths](chart)
Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2012-13 and Selected Previous Seasons
Connecticut Hospital Emergency Department Syndromic Surveillance (HEDSS) System: Percentage of total ED visits for "fever/flu" syndrome category, 2012-13 influenza season compared to past seasons, through MMWR Week 24 (week ending June 15, 2013)
Figure 2. Outpatient Influenza-Like Illness Surveillance Network (ILINet), Percentage of Patients with Influenza-Like Illness (ILI); 2007-08, 2010-11, 2011-12, 2012-13
Figure 3: Connecticut Hospital Admissions Syndromic Surveillance (HASS) System, Statewide Pneumonia Admissions; 2007-08, 2010-11, 2011-12, 2012-13

# admissions

MMWR week
Figure 4. Hospitalized Patients (n = 2150) with Positive Laboratory Tests by Subtype and Week, Connecticut (as of 05/015/2013)
Figure 5. Positive Laboratory Tests (n = 9430) by Influenza Subtype and Week, Connecticut (as of 05/15/2013)
Connecticut Vaccine Program

• Connecticut’s childhood vaccination program
• Includes 14/16 vaccines recommended as part of routine schedule by CDC
  – Flu vaccine provided for all children up to age 59 months
  – Flu vaccine provided to children 5–18 years old if on Medicaid or are uninsured or underinsured
CT Influenza Vaccine Requirements

• Daycare/Pre-Kindergarten
  – Children 6–59 months of age for daycare
  – Children 24–59 months of age for pre-K
• 1 dose each year between August 1-December 31
  • If receiving flu vaccine for the first time, need 2 doses at least 28 days apart
  • If a child is enrolling between January–March of a given year, influenza vaccine still required prior to entry
• Children enrolling after March 31 don’t require flu vaccination until the following flu season
Influenza Vaccine Coverage, by Age 2011–2012 Season, U.S. and CT

<table>
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<tr>
<th>Age</th>
<th>% Age 6mo+</th>
<th>% Age 6mo-17yrs</th>
<th>% Age 18+</th>
<th>% Age 18-64</th>
<th>% Age 65+</th>
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<tbody>
<tr>
<td>Connecticut</td>
<td>46.4</td>
<td>60.8</td>
<td>42.2</td>
<td>36.4</td>
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<tr>
<td>National</td>
<td>41.8</td>
<td>51.5</td>
<td>38.8</td>
<td>33.1</td>
<td>64.9</td>
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http://wwwn.cdc.gov/sortablestats/
Influenza Vaccine Coverage During Recent Flu Seasons, U.S. and CT

<table>
<thead>
<tr>
<th>Geography</th>
<th>2009-2010</th>
<th>2010-2011</th>
<th>2011-2012</th>
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<tbody>
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<td>Connecticut</td>
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<td>47.5</td>
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<tr>
<td>National</td>
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</table>

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