

EXECUTIVE SUMMARY
MMWR Week 2: January 11, 2015-January 17, 2015**Current Trends**

- Influenza-Associated Hospitalizations (IAH)**
 - There were a total of 11 IAH cases reported for this week
 - IAH cases decreased by 75% compared to last week (Week 1)
 - Adults aged 75-84 accounted for the largest percentage of hospitalizations at 36.4%
 - Males represented the highest percentage of IAH cases at 63.6%
 - African-Americans represented the highest percentage of IAH cases at 54.5%
 - Cuyahoga County has 19.5% of all IAH cases in Ohio
 - The City of Cleveland has 8.4% of all IAH cases in Ohio
- Influenza Deaths
 - There were 10 influenza deaths (5 were Cleveland residents) reported during Week 2 for Cuyahoga County, for a total of 27 deaths in Cuyahoga County (10 total deaths in Cleveland) over the 2014-2015 influenza season

IAH Cases: Comparison to Previous Years

- State of Ohio
MMWR Week 40-Week 1, 2014: 833
MMWR Week 40-Week 1, 2015: 6111
634% increase in IAH cases
- Northeast Region of Ohio
Week 1, 2014: 95
Week 1, 2015: 225
58% increase in IAH cases

Vaccine Information

- The 2014-2015 trivalent influenza vaccine has been made to protect against H1N1, H3N2, and Influenza B
- Everyone 6 months of age or older should get vaccinated, especially the people listed below:
 - Pregnant women
 - Children younger than 5, but especially children younger than 2 years old
 - People 65 years of age and older
 - People of any age with certain chronic medical conditions including:
 - high blood pressure, liver, heart or lung disease, diabetes, asthma, cancer or a weakened immune system
 - People who live in nursing homes and other long-term care facilities
 - People who live with or care for those at high risk for complications from flu

Prevention Recommendations for Healthcare Professionals and General Public

- Get vaccinated
- Conduct proper handwashing techniques, and wash hands often
- Cover your mouth and nose when coughing and sneezing
- If you become ill, stay home and follow-up with your doctor and take flu antiviral drugs if your doctor prescribes them

Created by: CDPH Office of Communicable Disease Surveillance and Epidemiology

Data Sources: CDPH Office of Vital Statistics, Ohio Disease Reporting System (ODRS), Ohio Department of Health, Centers for Disease Control and Prevention. Version Date: 01.20.2015

**IAH: Case reporting fluctuations may contribute to an unequal deviation in the number of weekly reported cases.



January 11th to January 17th, 2015 (MMWR Week 2) Highlights

Influenza Deaths:

There were a total of 10 influenza deaths reported this week

- Adults aged 85 years and over accounted for 80% of all influenza related deaths
- Influenza deaths accounted for 2.60% of all deaths reported this week
- The number of influenza deaths **increased** (↑) compared to last week (8 deaths)

| Influenza Deaths | Age | Sex | Race | Residence |
|------------------|-----|--------|-------|------------------|
| #1 | 87 | Female | White | Mayfield Heights |
| #2 | 88 | Female | White | Euclid |
| #3 | 89 | Male | White | Garfield Heights |
| #4 | 81 | Male | White | Cleveland |
| #5 | 92 | Male | Black | Cleveland |
| #6 | 99 | Female | White | Westlake |
| #7 | 94 | Female | White | Bay Village |
| #8 | 93 | Female | White | Cleveland |
| #9 | 82 | Female | Black | Cleveland |
| #10 | 97 | Male | White | Cleveland |

**Underlying medical conditions included: Pneumonia, Respiratory Failure, COPD, ESRD and Dementia*

Influenza-Associated Hospitalizations:

There were a total of 11 influenza-associated hospitalizations reported this week

- Adults aged 75-84 accounted for the largest percentage of hospitalizations at 36.4%
- Hospitalizations decreased by **75%** (↓) compared to last week (44 hospitalizations)
- The average age of influenza-associated hospitalizations was 65 years
- African-Americans accounted for the largest percentage of hospitalizations at 54.5%
- Males accounted for 63.6% of hospitalizations; compared to 36.4% for females

| Race | Number of Reported Hospitalizations | Percentage of Hospitalizations |
|------------------|-------------------------------------|--------------------------------|
| African-American | 6 | 54.5% |
| Asian | 1 | 9.1% |
| White | 4 | 36.4% |
| Other | 0 | 0% |
| Unknown | 0 | 0% |

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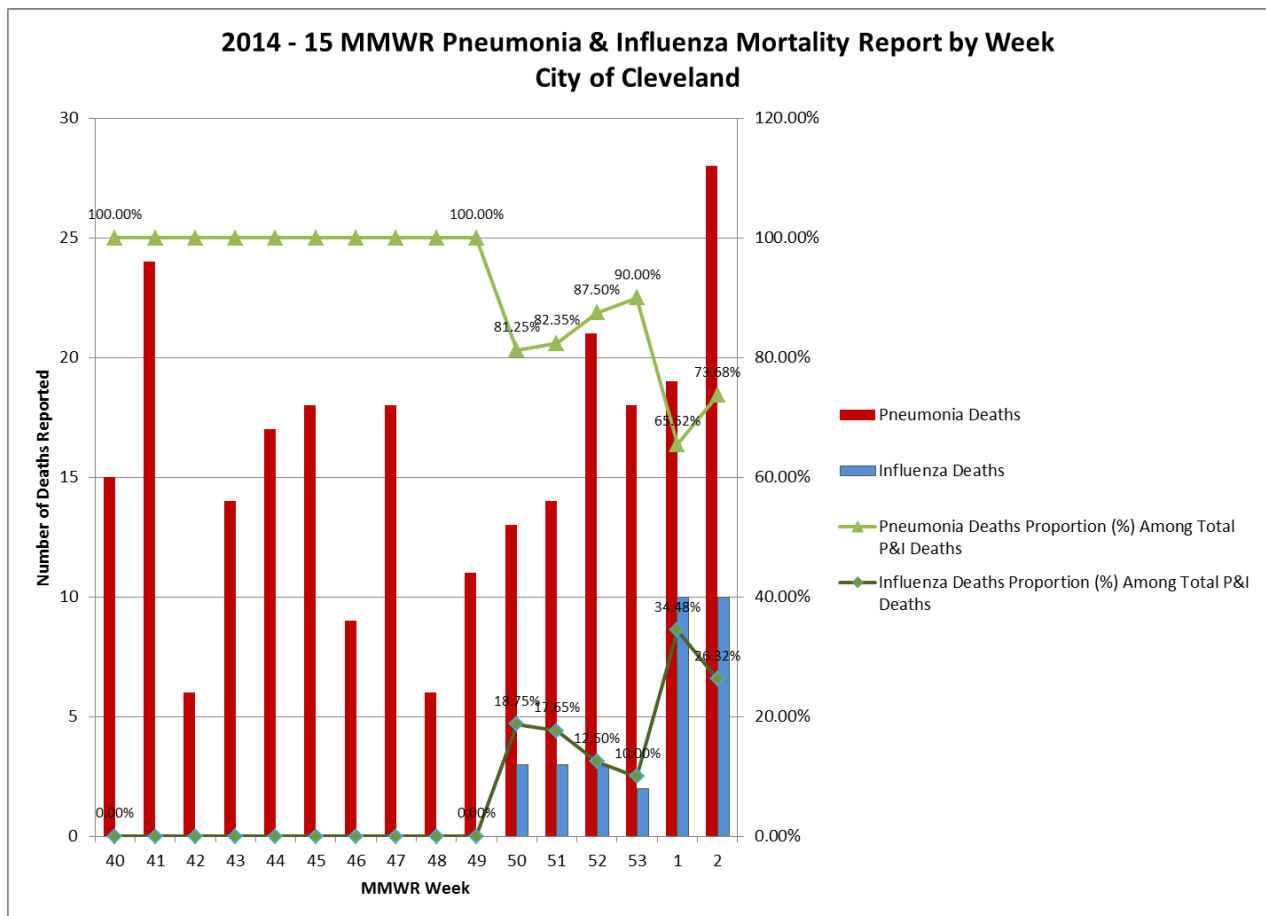
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| Sex | Number of Reported Hospitalizations | Percentage of Hospitalizations |
|---------|-------------------------------------|--------------------------------|
| Female | 4 | 36.4% |
| Male | 7 | 63.6% |
| Unknown | 0 | 0% |

| Age | Number of Reported Hospitalizations | Percentage of Hospitalizations |
|--------------------|-------------------------------------|--------------------------------|
| 0-14 years | 0 | 0% |
| 15-24 years | 0 | 0% |
| 25-44 years | 2 | 18.2% |
| 45-64 years | 2 | 18.2% |
| 65-74 years | 2 | 18.2% |
| 75-84 years | 4 | 36.4% |
| 85 years and older | 1 | 9.1% |
| Age not reported | 0 | 0% |

Pneumonia and Influenza Mortalities Reported by Week in the City of Cleveland:



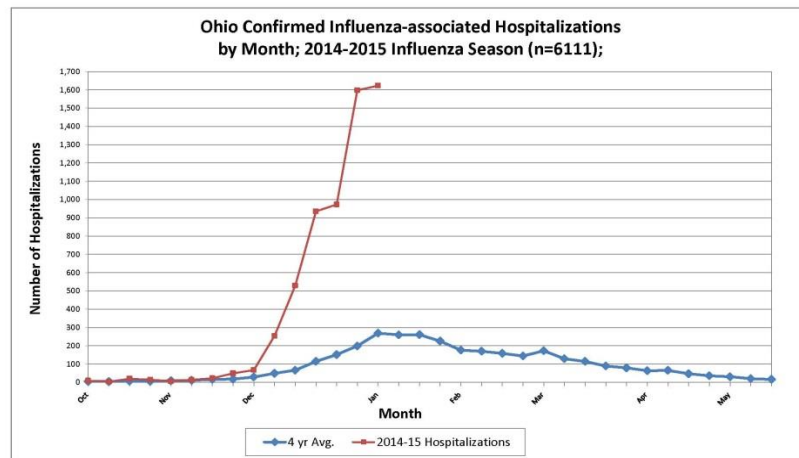
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Confirmed Influenza-Associated Hospitalizations (IAH) by Month for the State of Ohio:

- There have been a total of 6111 influenza associated hospitalizations in the State of Ohio as of January 10th, 2015
- Cuyahoga County has 1193 out of the 6111 influenza associated hospitalizations (19.5%)
- The City of Cleveland has 512 out of the 6111 influenza associated hospitalizations (8.4%)

**National IAH Data from CDC for MMWR Weeks 40-1 (September 28, 2014 to January 10, 2015)**

- Overall hospitalization rate was 29.9 per 100,000 population
- The highest rate of hospitalization was among adults aged ≥65 years (143.3 per 100,000 population), followed by children aged 0-4 years (30 per 100,000 population)
- Among all hospitalizations, 96.8% were associated with influenza A, 2.5% with influenza B, 0.3% with influenza A and B co-infection, and 0.4% had no virus type information
- Among those with influenza A subtype information, 99.6% were H3N2 virus, 0.3% were 2009 H1N1 and 0.1% was A(H1) unspecified
- The majority (93.4%) of hospitalized adults had at least one reported underlying medical condition; the most commonly reported were metabolic disorders, cardiovascular disease, and obesity
- The most commonly reported underlying medical conditions among pediatric patients were asthma, obesity, and immune suppression
- A total of 45 influenza-associated pediatric deaths have been reported during the 2014-2015 season from nine states; Ohio is one of these states with 4 pediatric deaths

National IAH Data from CDC for MMWR Week 1 (January, 4 2015 to January 10, 2015)

- During week 1, 8.5% of all deaths reported through the 122 Cities Mortality Reporting System were due to Pneumonia & Influenza (P&I)

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