

**EXECUTIVE SUMMARY**  
**MMWR Week 4: January 25, 2015-January 31, 2015****Current Trends**

- Influenza-Associated Hospitalizations (IAH)\*\*
  - There were a total of 4 IAH cases reported for this week
  - IAH cases decreased by 63.6% compared to last week (Week 3)
  - Adults aged 45-64 accounted for the largest percentage of hospitalizations at 75%
  - Females represented the highest percentage of IAH cases at 75%
  - African-Americans represented 75% of all IAH cases
  - Cuyahoga County has 17.6% of all IAH cases in Ohio
  - The City of Cleveland has 7.5% of all IAH cases in Ohio
- Influenza Deaths
  - There were 4 influenza deaths (None of the deaths were Cleveland residents) reported during Week 4 for Cuyahoga County, for a total of 38 deaths in Cuyahoga County (13 total deaths in Cleveland) over the 2014-2015 influenza season

**IAH Cases: Comparison to Previous Years**

- State of Ohio  
MMWR Week 40-Week 3, 2014: 1598  
MMWR Week 40-Week 3, 2015: 7199  
*351% increase in IAH cases*
- Northeast Region of Ohio  
Week 3, 2014: 45  
Week 3, 2015: 45  
*0% increase or decrease in IAH cases (Cases were the same)*

**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: 02.5.2015

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



## January 25th to January 31st, 2015 (MMWR Week 4) Highlights

### Influenza Deaths:

There were a total of 4 influenza deaths reported this week

- Adults aged 65-74 and adults aged 85 years and over each equally accounted for 50% of all influenza related deaths
- Influenza deaths accounted for 1.27% of all deaths reported this week
- The number of influenza deaths **decreased** (↓) compared to last week (7 deaths)

Influenza Deaths	Age	Sex	Race	Residence
#1	73	Female	White	Parma Heights
#2	66	Male	White	Middlefield Township
#3	93	Female	Black	Richmond Heights
#4	86	Female	White	North Olmstead

*\*Underlying medical conditions included: Pneumonia, Respiratory Failure, Septic Shock, Dementia, and Cerebrovascular Disease*

### Influenza-Associated Hospitalizations:

There were a total of 4 influenza-associated hospitalizations reported this week

- Adults aged 45-64 accounted for the largest percentage of hospitalizations at 75%
- Hospitalizations decreased by **63.6%** (↓) compared to last week (11 hospitalizations)
- The average age of influenza-associated hospitalizations was 60 years
- African-Americans accounted for 75% of all the hospitalizations
- Females accounted for 75% of hospitalizations; compared to 25% for males

Race	Number of Reported Hospitalizations	Percentage of Hospitalizations
African-American	3	75%
Asian	0	0%
White	1	25%
Other	0	0%
Unknown	0	0%

Sex	Number of Reported Hospitalizations	Percentage of Hospitalizations
Female	3	75%
Male	1	25%
Unknown	0	0%

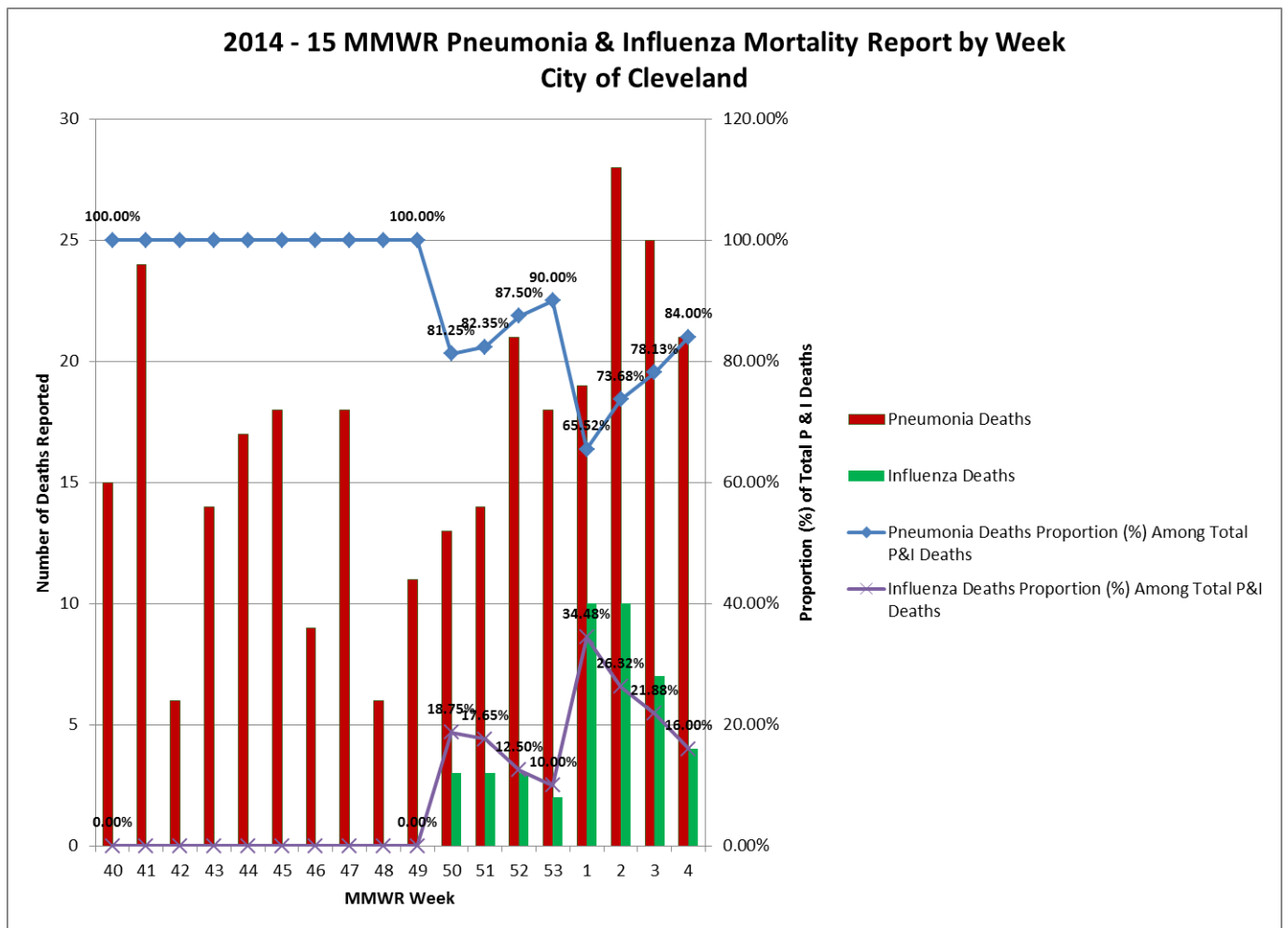
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Age	Number of Reported Hospitalizations	Percentage of Hospitalizations
0-14 years	0	0%
15-24 years	0	0%
25-44 years	0	0%
45-64 years	3	75%
65-74 years	0	0%
75-84 years	1	25%
85 years and older	0	0%
Age not reported	0	0%

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



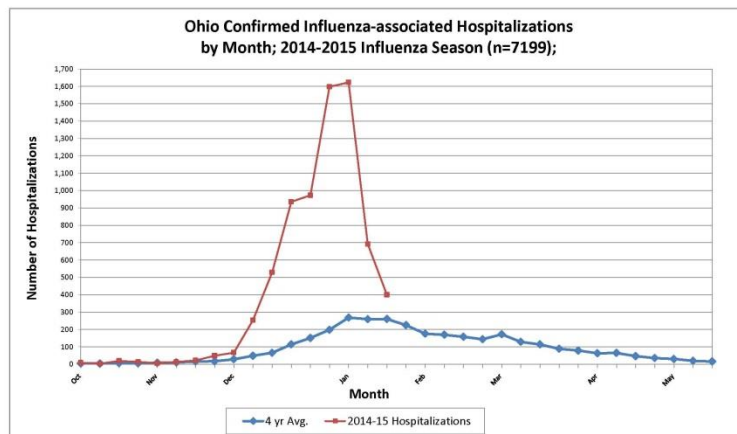
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**Confirmed Influenza-Associated Hospitalizations (IAH) by Month for the State of Ohio:**

- There have been a total of 7199 influenza associated hospitalizations in the State of Ohio as of January 24<sup>th</sup>, 2015
- Cuyahoga County has 1266 out of the 7199 influenza associated hospitalizations (17.6%)
- The City of Cleveland has 538 out of the 7199 influenza associated hospitalizations (7.5%)

**National IAH Data from CDC for MMWR Weeks 40-3 (January 18, 2015 to January 24, 2015)**

- Overall hospitalization rate was 40.5 per 100,000 population
- The highest rate of hospitalization was among adults aged  $\geq 65$  years (198.4 per 100,000 population), followed by children aged 0-4 years (38.2 per 100,000 population)
- Among all hospitalizations, 96.6% were associated with influenza A, 2.6% with influenza B, 0.3% with influenza A and B co-infection, and 0.5% had no virus type information
- Among those with influenza A subtype information, 99.7% were H3N2 virus and 0.3% were 2009 H1N1
- The majority (93.7%) 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, neurologic disorders and immune suppression
- A total of 61 influenza-associated pediatric deaths have been reported during the 2014-2015 season from 24 states; Ohio is one of these states with 5 pediatric deaths

**National IAH Data from CDC for MMWR Week 3 (January 18, 2015 to January 24, 2015)**

- During week 3, 9.1% of all deaths reported through the 122 Cities Mortality Reporting System were due to Pneumonia & Influenza (P&I)

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