



# PUBLIC HEALTH DATA BRIEF

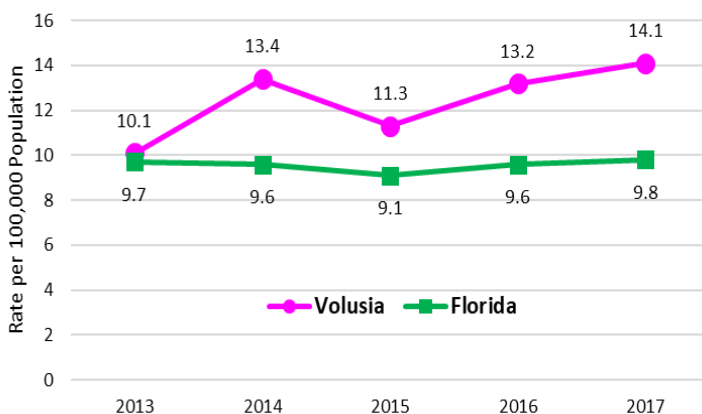


## INFLUENZA AND PNEUMONIA IN VOLUSIA COUNTY

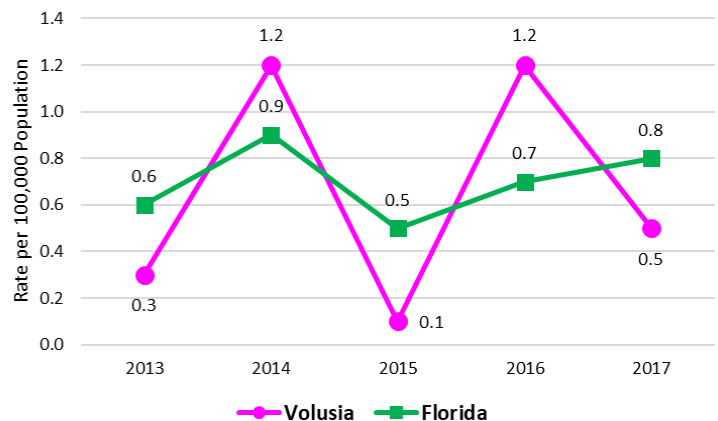
The Centers for Disease Control and Prevention (CDC) states that influenza, also known as flu, is an upper respiratory disease which can cause mild to severe illness, and at times can be deadly. Sometimes people can develop complications, such as pneumonia, as a result of the flu. The flu is caused by different viruses. There are a number of tests available to detect influenza viruses. CDC estimates 959,000 hospitalizations and 79,400 deaths from influenza occurred in U.S. during the 2017–2018 season. Florida Health CHARTS reported 255 deaths in Florida and five deaths in Volusia County from influenza in 2017. This represented a 48 percent increase in Florida and 29 percent decrease in Volusia County from 2016.

Anyone at any age can get the flu; however, adults age 65 and older, people with chronic medical conditions regardless of age, and very young children are more likely to get complications from influenza. CDC recommends the best way to prevent seasonal flu is to get a flu shot every year.

**Influenza and Pneumonia Age-Adjusted Death Rates  
Volusia County and Florida, 2013-2017**

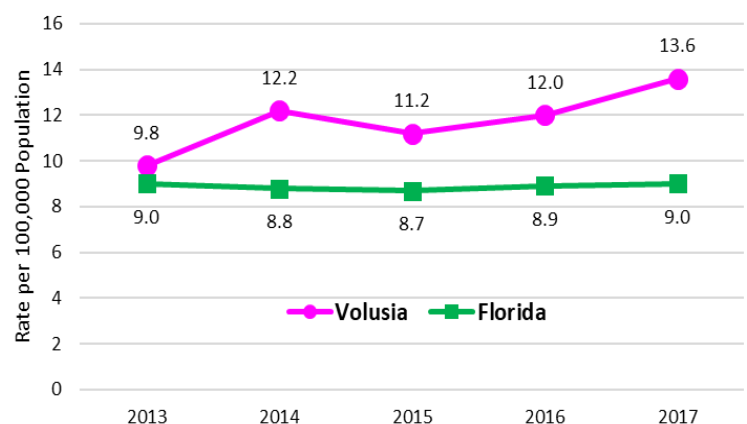


**Influenza Age-Adjusted Death Rates  
Volusia County and Florida, 2013-2017**

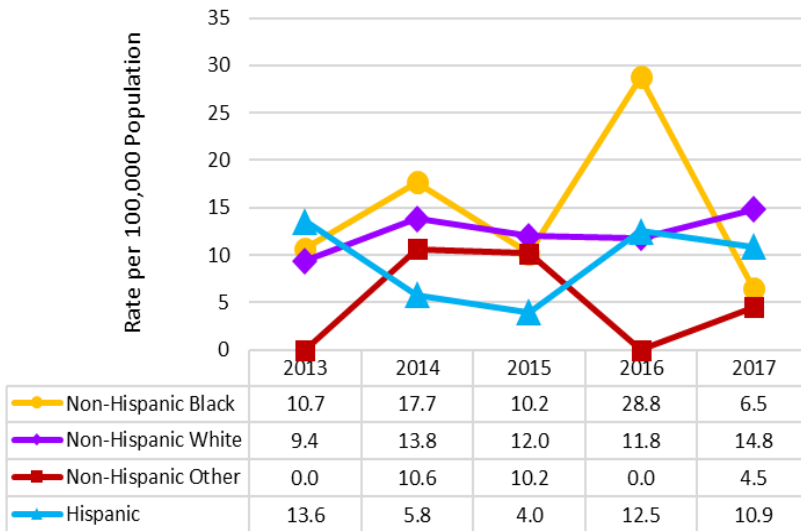


- ↑ Volusia County had an overall 40 percent increase in influenza and pneumonia age-adjusted death rate, while Florida increased by one percent from 2013 to 2017.
- ↗ Volusia County's influenza age-adjusted death rates fluctuated in the five year period increasing by 67 percent compared to Florida's 33 percent increase from 2013 to 2017.
- ⇒ Pneumonia age-adjusted death rates in Volusia County increased by 39 percent from 2013 to 2017.

**Pneumonia Age-Adjusted Death Rates  
Volusia County and Florida, 2013-2017**



## Influenza and Pneumonia Age-Adjusted Death Rates by Race/Ethnicity, Volusia County, 2013-2017



Non-Hispanic black residents had the highest age-adjusted rates for emergency department (ED) visits, hospitalizations, and deaths in every quadrant except for hospitalizations and deaths in the Southwest quadrant during 2016.

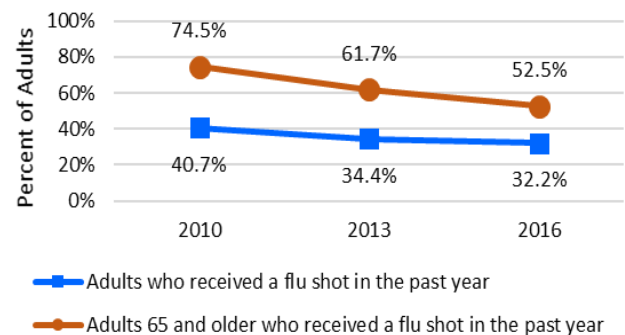
## Influenza and Pneumonia Age-Adjusted Rates of ED Visits, Hospitalizations, and Deaths by Race/Ethnicity and Quadrant, Volusia County, 2016

| Location           | Condition        | Non Hispanic |       |       | Hispanic | Total  |
|--------------------|------------------|--------------|-------|-------|----------|--------|
|                    |                  | Black        | White | Other |          |        |
| Northwest Quadrant | ED Visits        | 1612.0       | 754.3 | 557.6 | 818.6    | 840.1  |
|                    | Hospitalizations | 458.1        | 314.7 | 291.6 | 314.0    | 336.3  |
|                    | Deaths           | 31.6         | 9.9   | 0.0   | 22.0     | 13.4   |
| Northeast Quadrant | ED Visits        | 1961.8       | 861.2 | 307.2 | 602.2    | 1088.8 |
|                    | Hospitalizations | 371.8        | 218.3 | 35.7  | 137.3    | 239.1  |
|                    | Deaths           | 27.1         | 11.1  | 0.0   | 0.0      | 13.2   |
| Southwest Quadrant | ED Visits        | 886.7        | 569.5 | 446.6 | 753.9    | 645.4  |
|                    | Hospitalizations | 255.6        | 249.2 | 331.5 | 266.3    | 261.3  |
|                    | Deaths           | 6.3          | 16.7  | 0.0   | 14.5     | 15.6   |
| Southeast Quadrant | ED Visits        | 1632.9       | 788.4 | 299.5 | 421.3    | 781.3  |
|                    | Hospitalizations | 298.6        | 217.0 | 66.8  | 68.4     | 204.6  |
|                    | Deaths           | 48.8         | 7.4   | 0.0   | 22.5     | 8.5    |
| Volusia County     | ED Visits        | 1339.8       | 746.0 | 388.8 | 721.4    | 841.3  |
|                    | Hospitalizations | 341.3        | 237.5 | 164.2 | 241.3    | 248.0  |
|                    | Deaths           | 29.5         | 11.3  | 0.0   | 12.7     | 12.8   |

Non-Hispanic black residents had an 182 percent increase in the age-adjusted death rate from influenza and pneumonia from 2015 to 2016 and then a 77 percent decrease from 2016 to 2017.

Non-Hispanic white residents had a 57 percent increase in influenza and pneumonia deaths from 2013 to 2017, while non-Hispanic black residents and Hispanic residents had 39 and 20 percent decreases respectively.

## Percentage of Adults Who Received a Flu Shot in the Past Year, Volusia County, 2010, 2013, and 2016



The percentage of all adults and adults 65 years of age and older who received a flu shot in the past year declined by 21 percent and 30 percent respectively from 2010 to 2016.

Visit the Florida Flu Review for up to date information on influenza activity at:

<http://www.floridahealth.gov/diseases-and-conditions/influenza/>

### Sources:

CDC; FLHealthCHARTS; Florida Agency for Health Care Administration, Hospitalization and Emergency Department Visits Files, 2016; Florida Department of Health, Bureau of Vital Statistics, Death File, 2016; Florida Behavioral Risk Factor Surveillance System