

Madison County Communicable Disease Activity: Week 12, ending 3/23/19

*Information denoted with an asterisk is subjective and provided on a voluntary basis.

COMMUNICABLE DISEASES: Madison County

Communicable Diseases

Reported: 7 Chlamydia, 1 Gonorrhea, and 1 chronic Hepatitis C

Primary Care Providers

Reported*: Fever, respiratory illness, gastrointestinal illness (GI), influenza-like illness (ILI), influenza (flu), strep throat, coughs, upper respiratory infections (URI), sinus infections, and congestion

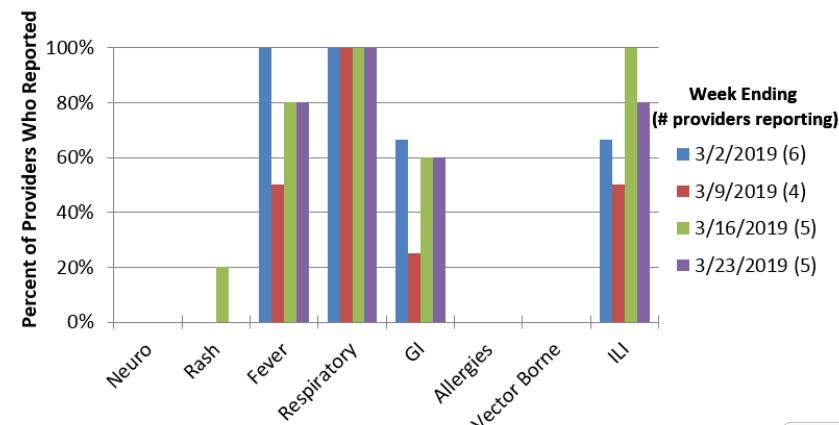
Colleges Reported*: Respiratory illness, ILI, flu, URI, and strep throat

Syndromic Surveillance in Emergency Department—3/15/19-3/24/19: Mild to moderate sensitivity for GI and respiratory illness

Medicaid Over-the-Counter (OTC) & Script Medication Alerts—3/2/19 to 3/11/19: No alerts were reported

Hospitals Reported:
neurologic illness¹, rash, fever, respiratory illness, GI, ILI, flu, pneumonia, and asthma

Figure 1: Weekly Symptoms Reported Among a Proportion of Healthcare Providers



¹Neurologic illness can include non-specific diagnosis of neurological infection (e.g. Meningitis, Encephalitis, etc.) or non-specific conditions (e.g. headache, numbness, dizziness, blurry/double vision, speech difficulty, confusion, disorientation, or anxiety)

ISSUE HIGHLIGHT: MEASLES CASES CONTINUE TO CLIMB

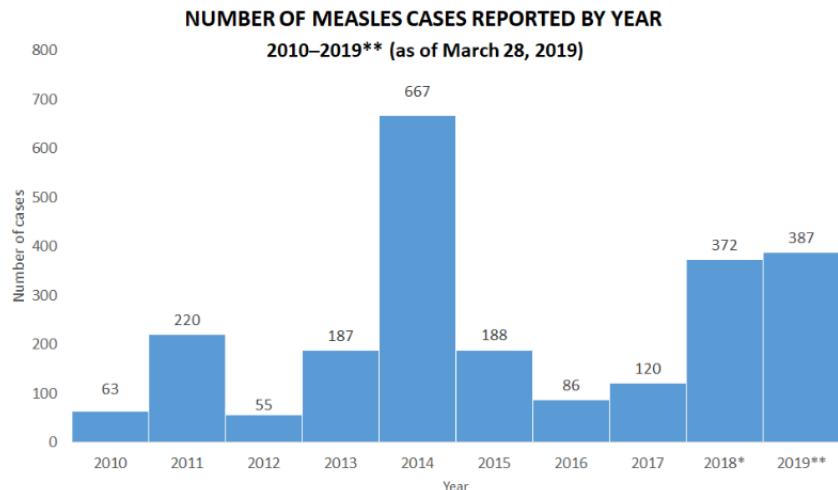
New York is experiencing its worst measles outbreak in decades, along with other states, which has hit unvaccinated young children under the age of 10 particularly hard.

The measles virus is one of the most infectious diseases known. A person with measles can cough in a room and leave, and if you're unvaccinated, you could catch the virus from the droplets in the air the infected person left behind for up to two hours. The measles vaccine is very effective and recommended for everyone over age 1.

Six outbreaks (defined as 3 or more cases) have been reported in 2019. These outbreaks are linked to travelers who brought measles back from other countries, where large measles outbreaks are occurring. [Make sure you are vaccinated against measles](#) before traveling internationally.

Measles cases have been confirmed in 15 states so far this year, and continue to climb.

(Source <https://www.cdc.gov/measles/cases-outbreaks.html>)



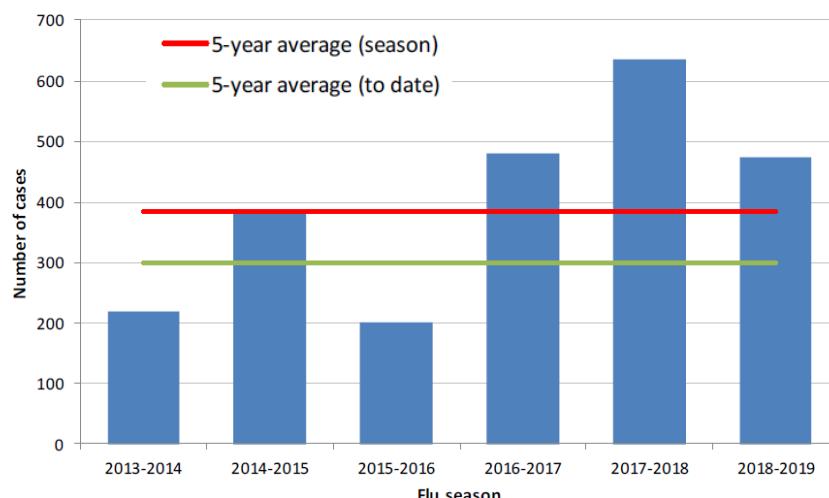
Madison County Disease Surveillance & Risk Report

Madison County Flu Activity: Week 12, ending 3/23/19: **Widespread**



Weekly Lab-confirmed flu: 32 flu case were reported; this is a 33% decrease from the previous week (48).

Figure 3: Positive Influenza Laboratory Results Reported to MCDOH, by Season

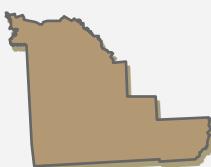


Influenza-like or flu-like illness (ILI) includes:

- 1) a fever greater than 100°F measured with a thermometer AND
- (2) a cough AND/OR sore throat in the absence of a known cause other than influenza.

Total Lab Confirmed Flu Reported to Date: 473
 (469 type A and 4 type B)
This is 58% higher than the average, to date (299), see Figure 3.

Incidence Rate (the number of new flu cases):
 43.6 per 100,000 population



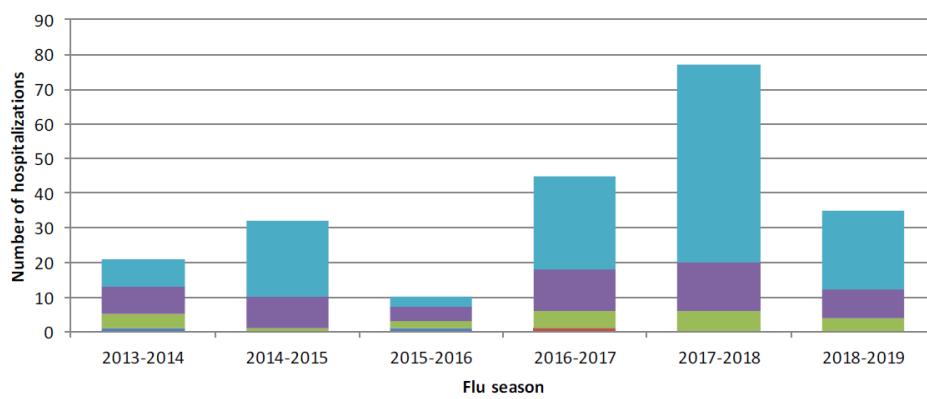
Hospitals:
 ILI and flu was reported



Flu-Related Hospitalizations: Two hospitalized patients with lab-confirmed flu were reported by hospitals in Madison County; this is a *decrease* from the previous week (6). 37 hospitalizations have been reported this season to date, see Fig. 4.

Figure 4: Total Patients Hospitalized with Lab-Confirmed Flu by Age and Season,

Age group: ■ 0-4 years ■ 5-17 years ■ 18-49 years ■ 50-64 years ■ 65+ years



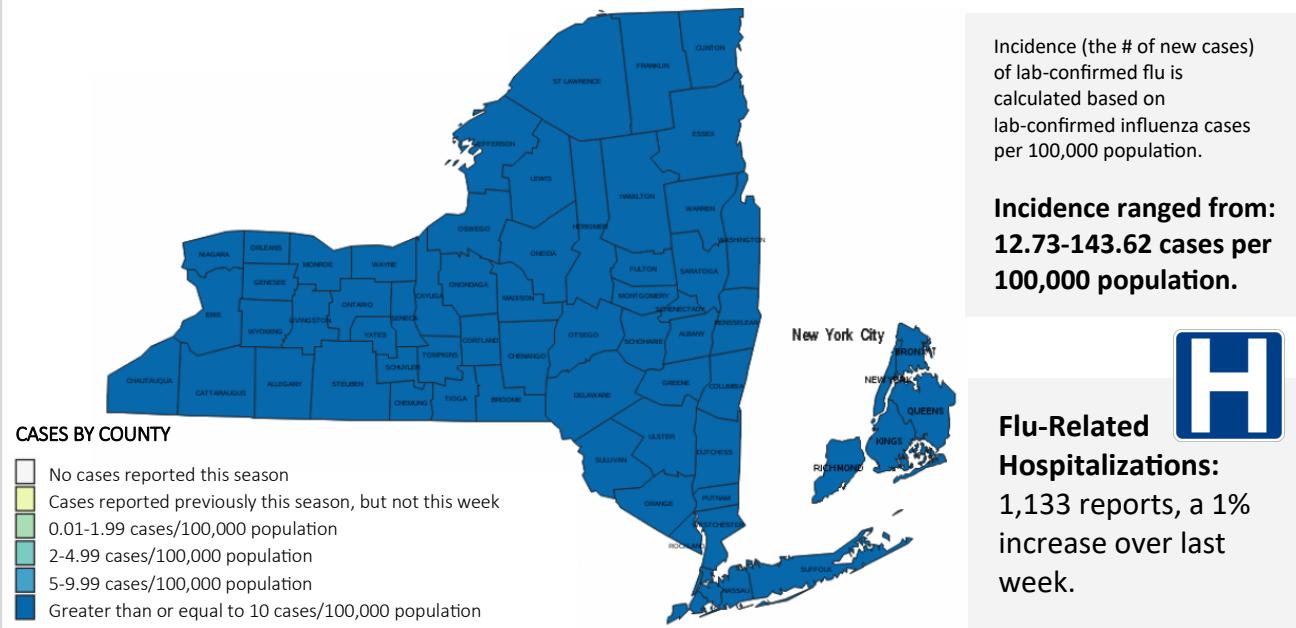
Madison County Disease Surveillance & Risk Report

New York State Flu Activity: Week 11, ending 3/16/19: **Widespread**



Weekly Lab-Confirmed Flu: 7,160 reports, a 10% increase over last week. Flu was reported in 62 counties (Figure 5).

Figure 5: Lab-Confirmed Flu Reported by County to NYS

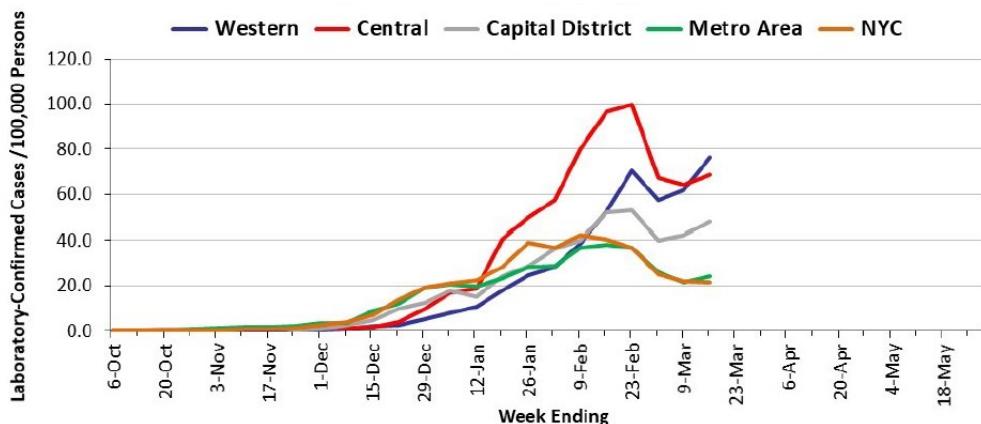


FLU: New York State

ILInet Healthcare Providers: 3.02% of weekly patient complaints were flu-like illness (ILI); this is an *increase* from the previous week, and is *below* the regional baseline of 3.10%. (*ILInet providers* report the total number of patients seen and the total number of those with complaints of influenza-like illness (ILI) weekly in an outpatient setting.)

Flu-Associated Pediatric Deaths: None reported this week. There have been four deaths reported this season to-date.

Figure 6: Incidence of Laboratory-Confirmed Influenza Reported to NYSDOH-By Region, 2018-19



Madison County Disease Surveillance & Risk Report

National Flu Activity: Week 11, ending 3/16/19: **Widespread**



Flu activity remains elevated in the U.S. Influenza A(H1N1)pdm09, influenza A(H3N2), and influenza B viruses continue to co-circulate.

Geographic Flu Activity Summary (Figure 7): (Geographic spread of influenza viruses, not a measure of severity.)

- Widespread flu activity was reported by 44 states
- Regional flu activity was reported by Puerto Rico and four states
- Local flu activity was reported by the District of Columbia and two states
- Sporadic flu activity was reported by the U.S. Virgin Islands
- Guam did not report

Flu Activity from ILINet Data (Figure 8):

26 states experienced high ILI activity; 12 states experienced moderate ILI activity; New York City, Puerto Rico, and eight states experienced low ILI activity; Four states experienced minimal ILI activity; and data were insufficient to calculate an ILI activity level from the District of Columbia and the U.S. Virgin Islands.

(This data is based on the percent of outpatient visits in a state due to ILI compared to the average percent of ILI visits during weeks with little or no influenza virus circulation.)

U.S. ILINet Healthcare Providers:

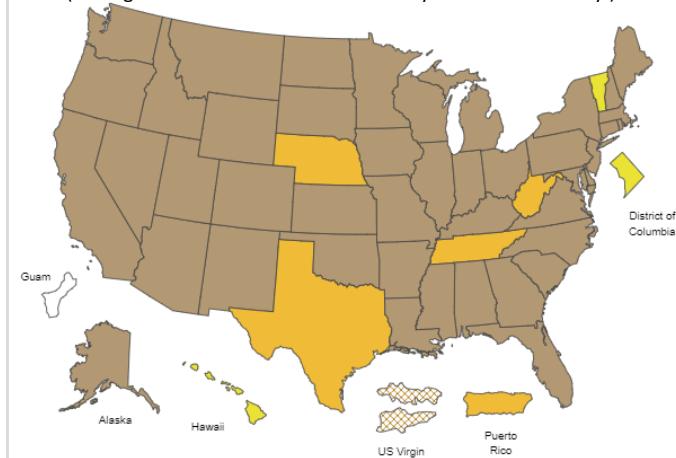
Outpatient illness visits reported through the Network slightly decreased to 4.4%, this percentage remains *above* the national baseline of 2.2%. All 10 regions in the U.S. reported flu-like illness *at or above* their region-specific baselines.

Flu and Pneumonia-Associated Deaths:

7.1% of all deaths reported through the National Center for Health Statistics, occurring week 10, ending March 9th, were attributed to pneumonia and flu; this is *below* the week 10 epidemic threshold of 7.3%.

Flu-Associated Pediatric Deaths: Eight deaths were reported during week 11. 76 flu-associated pediatric deaths have been reported this season to date.

Figure 7: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists
(This figure does not measure the severity of influenza activity.)



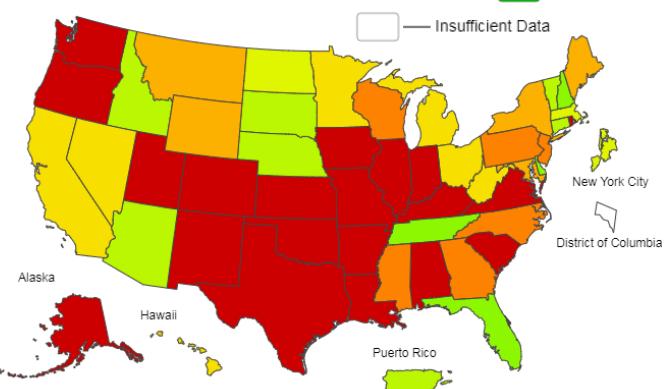
Overall Flu-Related Hospitalization

Rate: 47.1 per 100,000 population was reported



Hospitalizations by Age Group: The highest rate was among adults aged 65 or older (146.0 per 100,000 population)

Figure 8: ILI Activity from ILINet Data



ILINet Data based on percent of outpatient visits in states due to ILI, more on Fig. 2 at: <http://1.usa.gov/1d3PGtv>

Sources: FluView: Weekly U.S. Influenza and Surveillance Report. Centers for Disease Control and Prevention. <http://1.usa.gov/1eDDFh>