

Madison County Communicable Disease Activity: Week 15, ending 4/14/18

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

COMMUNICABLE DISEASES: Madison County

Communicable Diseases

Reported: 5 chlamydia, 1 campylobacter, 1 cryptosporidiosis, and 1 new chronic Hepatitis C

Primary Care Providers

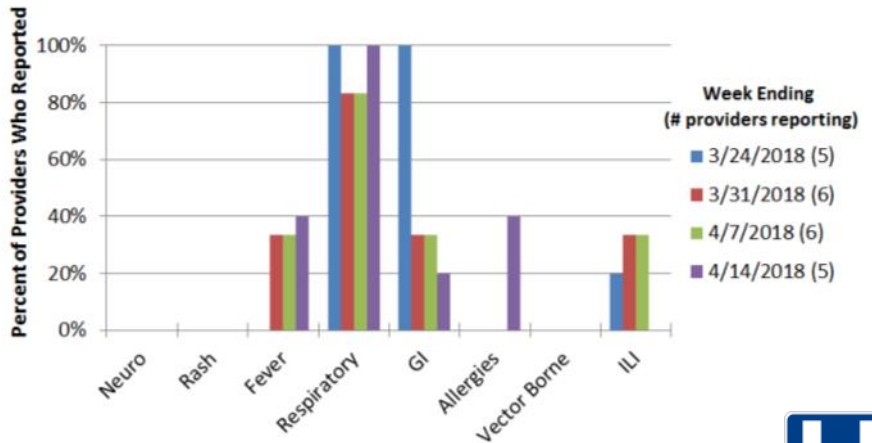
Reported*: Fever, respiratory illness, gastrointestinal illness (GI), upper respiratory illness (URI), flu, strep throat, coughs, pink eye, allergies, pneumonia, and sinus infections (Fig. 1).

College Health Centers Reported*: Fever, respiratory illness, GI, URI, and flu

Syndromic Surveillance in Emergency Department—4/6/18 to 4/14/18: Mild sensitivity for rash and respiratory illness

Medicaid Over-the-Counter (OTC) & Script Medication Alerts—3/123/18 to 4/1/18: No alerts reported

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



Hospitals

Reported: Rash, fever, respiratory illness, gastrointestinal illness (GI), upper respiratory illness (URI), flu, and influenza-like illness (ILI)



Issue Highlight: LYME DISEASE IN MADISON COUNTY



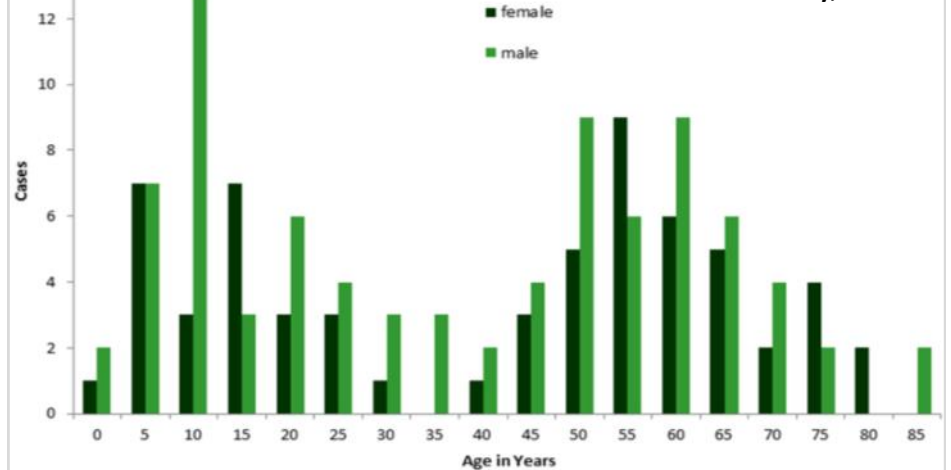
Lyme disease is the most common vector-borne disease in the U.S.

- From 2011-17, 57.8% (85 cases) of cases in Madison County have been among males.

Madison County follows the national trend of disproportionately higher disease rates in males and within specific age groups (5-9 and 55-59) (Fig. 2); the cause for this difference is unknown.

Read Madison County's Lyme Profile: <http://bit.ly/lymeMCDOH>

Figure 2: Confirmed and Probable Lyme Disease Cases by Age and Sex, Madison County, 2011-17



Madison County Disease Surveillance & Risk Report

Madison County Flu Activity: Week 15, ending 4/14/18: *Regional*

No Report

No Activity

Sporadic

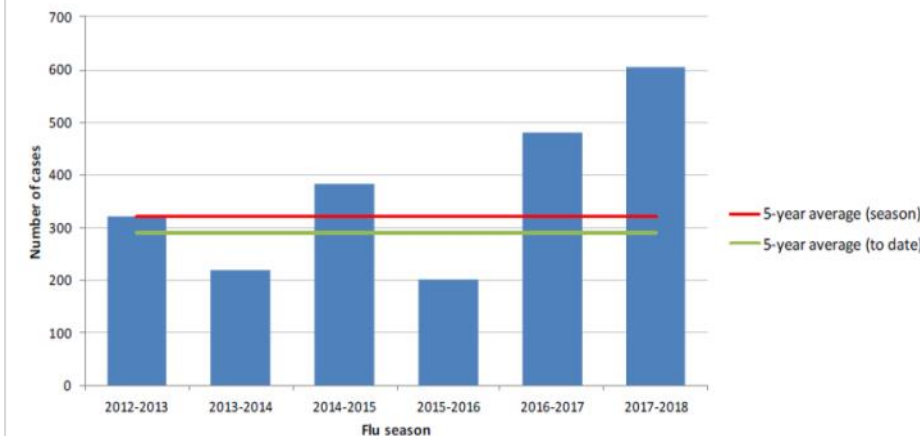
Local

Regional

Widespread

Weekly Lab-confirmed flu: 27 cases (15 flu Type A and 12 flu Type B) were reported; this is a 35% increase from the previous week (Fig. 3 & 4).

Figure 3: Positive Influenza Laboratory Results Reported to Madison County, by Year

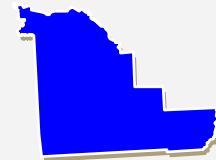


Influenza-like or flu-like illness (ILI) includes:

- 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:

604 (385 Flu Type A-64% & 219 Type B-36%), this is 109% higher than average (290), to date.



Incidence Rate (the number of new flu cases): 36.8 per 100,000 population



Hospitals:

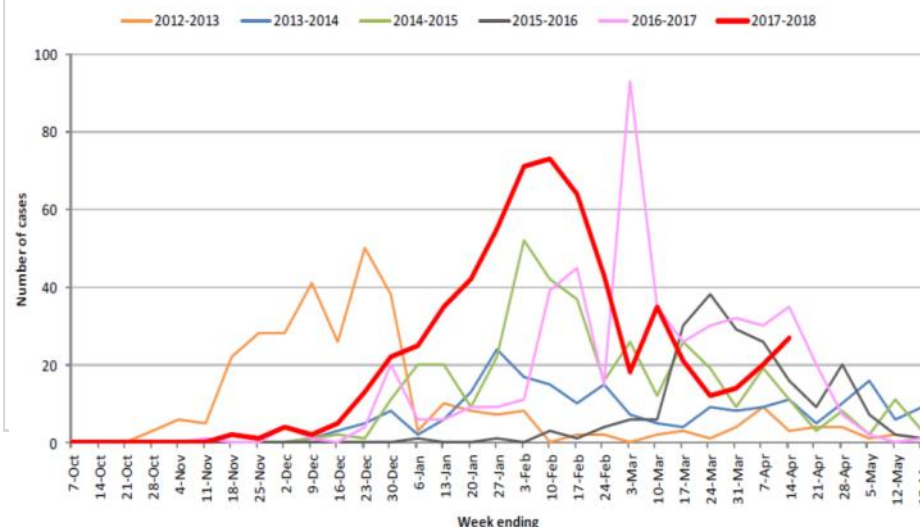
ILI and flu was reported

Flu-Related

Hospitalizations: Four hospitalized patient with lab-confirmed flu was reported in Madison County; this is a slight increase from the previous week.

Schools Districts*: 0.5% of children seen by school nurses had symptoms of influenza-like illness; this is *no change* from the previous week (0.5%).

Figure 4: Weekly Positive Influenza Laboratory Results Reported to Madison County, by Season



College Health Centers*: Flu was reported

Primary Care Providers*: Flu was reported

Flu-Associated Pediatric Deaths: No reports this season to date.

FLU: Madison County

Madison County Disease Surveillance & Risk Report

New York State Flu Activity: Week 14, ending 4/7/18: **Widespread (decreasing)**

No Report

No Activity

Sporadic

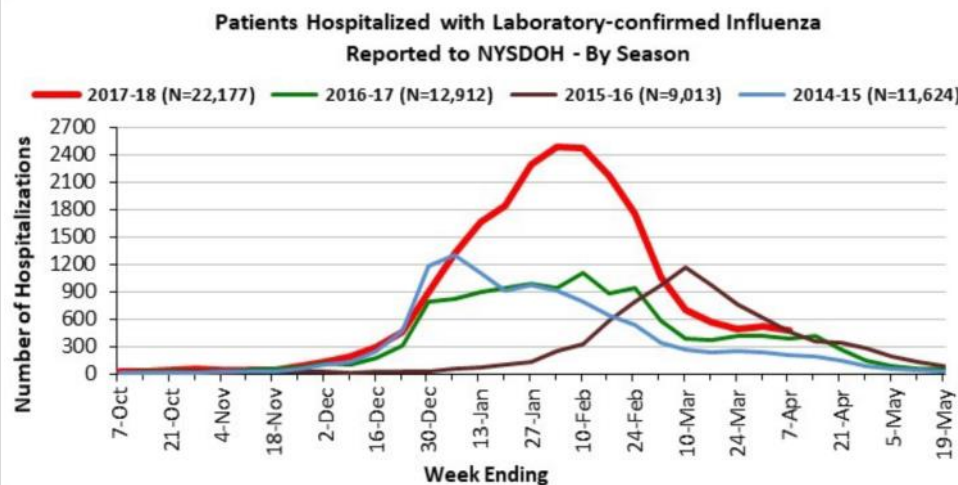
Local

Regional

Widespread

Weekly Lab-Confirmed Flu: 2,287 reports, a 28% decrease over last week (Figure 6). Flu was reported in all 62 counties.

Figure 5: Patients Hospitalized with Lab-Confirmed Flu Reported to NYSDOH—By Week, 2017-18 (N=21, 655)



Flu-Related Hospitalizations: 480 reports, a 7% decrease over last week (figure 5).

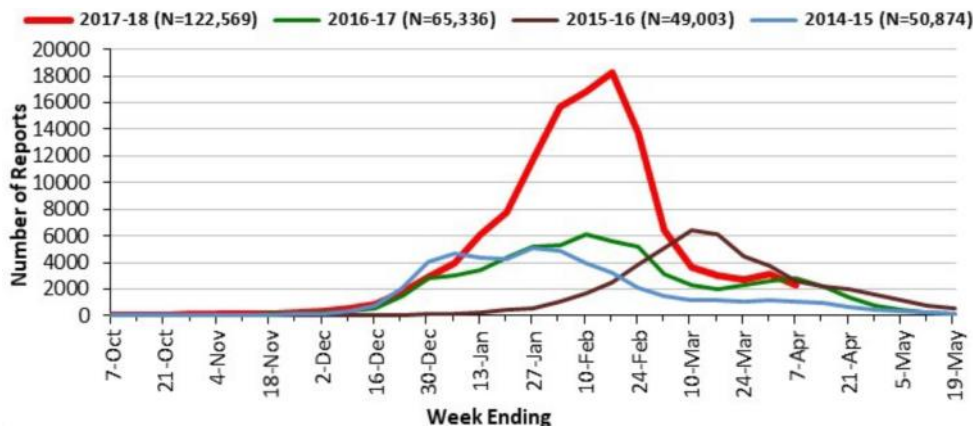
ILInet Healthcare Providers: 2.7% of weekly patient complaints were flu-like illness (ILI); this a decrease from the previous week and is below the regional baseline of 3.10% (Figure 6). (ILInet providers report the total number of patients seen and the total number of those with complaints of influenza-like illness (ILI) weekly in an outpatient setting.)

Incidence (the # of new cases) of lab-confirmed flu is calculated based on lab-confirmed influenza cases per 100,000 population.

Flu-Associated Pediatric Deaths: No reports this week. Five deaths were reported this season to-date.

Incidence ranged from: 1.64-68.07 cases per 100,000 population.

Figure 6: Positive Flu Lab Results Reported to NYS, by Season



FLU: New York State

Madison County Disease Surveillance & Risk Report

National Flu Activity: Week 14, ending 4/7/18: **Regional (decreasing)**

No Report

No Activity

Sporadic

Local

Regional

Widespread

Flu activity **decreased** in the U.S.

Geographic Flu Activity Summary (Figure 7):

(Geographic spread of influenza viruses, not a measure of severity.)

- Widespread influenza activity was reported by seven states
- Regional influenza activity was reported by Guam, Puerto Rico and 22 states
- Local influenza activity was reported by the District of Columbia and 16 states
- Sporadic influenza activity was reported by the U.S. Virgin Islands and five states

Flu Activity from ILINet Data (Figure 8):

Two states experienced high ILI activity; two states experienced moderate ILI activity; eleven states experienced low ILI activity; and New York City, the District of Columbia, Puerto Rico, and 35 states experienced minimal ILI activity. *(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:

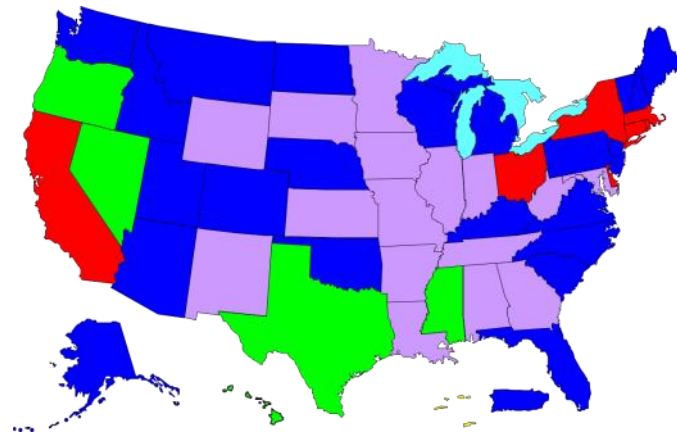
Outpatient illness visits reported through the Network was 2.1%, this percentage is *below* the national baseline of 2.2% and a decrease from the previous week. Six of 10 regions in the U.S. reported flu-like illness *at or above* their region-specific baselines.

Flu and Pneumonia-Associated Deaths:

7.0% of all deaths reported through the National Center for Health Statistics mortality surveillance data, occurring during week 12 ending 3/24, were attributed to pneumonia and flu; this is *below* the week 12 epidemic threshold of 7.3%.

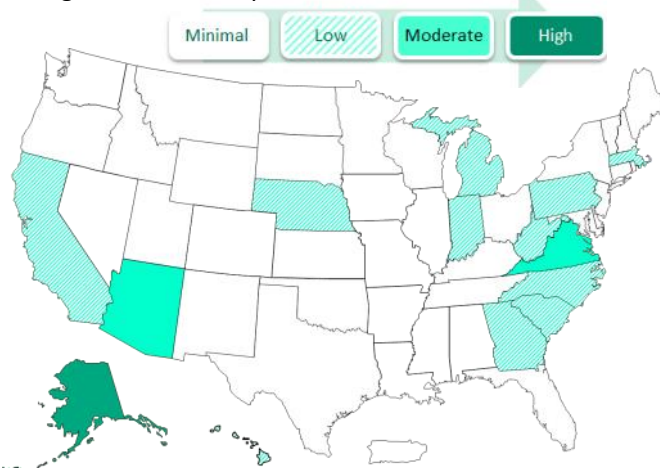
Flu-Associated Pediatric Deaths: Nine pediatric deaths were reported. 151 flu-associated pediatric deaths have been reported this season to date.

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:**
101.6 per 100,000
population.

Figure 8: ILI Activity from ILINet Data



ILI Net 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>

FLU: United States