

Laboratory Surveillance Report

Influenza (Week ending May 4, 2019)

Surveillance Data Synopsis

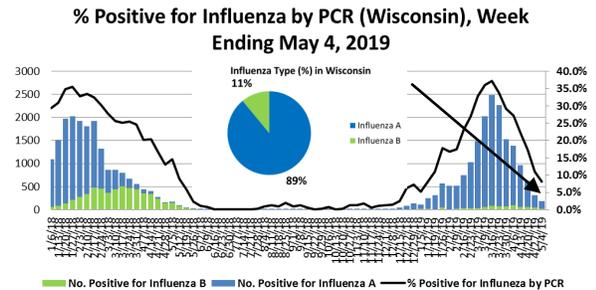
- **Influenza activity is decreasing.**
- **Rhinovirus/ enterovirus and parainfluenza virus activities are increasing.**
- **Rotavirus was the predominant gastro pathogen reported.**

National Influenza Update (CDC)

- Nationally, the CDC reported decreasing activity with 4.7% of the 14,666 surveillance specimens testing positive for influenza virus (A and B).
- The majority of influenza viruses detected were influenza A (66%). Of those subtyped, the 82.4% were influenza A (H3N2). 73% belong to the 3C.3a clade and are antigenically *distinct* from the vaccine strain.
- Influenza B accounted for 34% of specimens testing positive for influenza virus.

Wisconsin Influenza Update

- 2,294 specimens were tested by PCR with a decreasing percentage (8.1%) positive for influenza virus. The majority were influenza A (89%).
- Influenza B activity is low accounting for 11% of the positives reported.
- Of those Flu A's subtyped, 55% were (pdm H1N1).



To enhance surveillance activities for influenza viruses, the WSLH asks labs to please send:

1. A sampling of specimens from influenza-related hospitalizations (e.g. 1 per week).
2. Specimens that fail to subtype (Ct <35) if subtyping for 2009 pdmH1 and H3 were performed.

Other Surveillance Data-Wisconsin

Week Ending May 4, 2019

| Resp. Pathogen PCR | # Tested | % Positive |
|-------------------------|----------|------------|
| Rhinovirus/ enterovirus | 638 | 12.1↑ |
| Parainfluenza | 673 | 10.5↑ |
| Influenza | 2,294 | 8.1↓ |
| Human Metapneumovirus | 673 | 6.4 |
| Coronavirus | 294 | 3.7 |
| RSV | 1,078 | 1.1 |
| Adenovirus | 294 | <1 |
| <i>B. pertussis</i> | 242 | 0 |

Respiratory

- Rhinovirus/ enterovirus and parainfluenza virus activities are increasing.

Gastro pathogens

- Rotavirus activity is at high levels, but is decreasing. It was the predominant gastro pathogen reported.
- Other gastro pathogens reported included EPEC (5.8%), EAEC (2.1%) and Adeno 40/41 (3.1%).
- *Please send WSLH a sampling of Rotavirus positive specimens (e.g. 1 per week maximum).

Week Ending May 4, 2019

| GI Pathogen PCR | # Tested | % Positive |
|---------------------|----------|------------|
| Rotavirus | 339 | 10.9↓ |
| Norovirus | 362 | 6.9 |
| Astrovirus | 189 | 5.8 |
| Sapovirus | 189 | 2.6 |
| Campylobacter | 615 | 2.1 |
| Salmonella | 552 | 1.8 |
| STEC | 540 | <1 |
| Cryptosporidium | 242 | <1 |
| Shigella | 500 | <1 |
| Giardia | 242 | 0 |
| <i>E. coli</i> O157 | 183 | 0 |