

Laboratory Surveillance Report

Influenza (Week ending April 20, 2019)

Surveillance Data Synopsis

- Influenza activity is decreasing.
- An increasing number of A (H3N2) viruses are antigenically distinguishable from the vaccine strain.
- Rotavirus was the predominant gastropathogen reported.

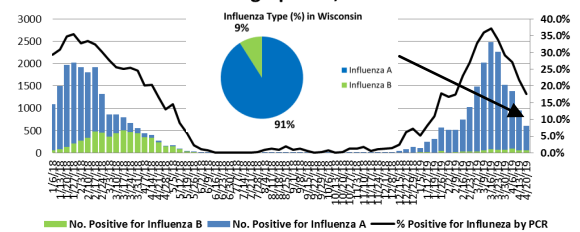
National Influenza Update (CDC)

- Nationally, the CDC reported decreasing activity with 8.1% of the 18,777 surveillance specimens testing positive for influenza virus (A and B).
- The majority of influenza viruses detected were influenza A (76.2%). Of those subtyped, the majority (77%) were influenza A (H3N2) and antigenically distinguishable from the vaccine strain.
- Influenza B activity increased nationally with 23.8% of specimens testing positive for influenza B virus.

Wisconsin Influenza Update

- 3,450 specimens were tested by PCR with a decreasing percentage (17.6%) positive for influenza virus. The majority were influenza A (91%).
- Influenza B activity (9%) in Wisconsin is lower than seen nationally.
- Of those Flu A's subtyped, 67% were (H3N2).

% Positive for Influenza by PCR (Wisconsin), Week Ending April 20, 2019



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 April 20, 2019

Resp. Pathogen PCR	# Tested	% Positive
Influenza	3,450	17.6↓
Rhinovirus/ enterovirus	699	10.3↑
Human Metapneumovirus	761	6.3↑
Parainfluenza	723	5.4
Coronavirus	393	5.1
RSV	1,297	1.7
Adenovirus	393	<1
<i>B. pertussis</i>	274	<1

Respiratory

- Rhinovirus/ enterovirus and human metapneumovirus activities are increasing.

Gastropathogens

- Rotavirus activity is at high levels and was the predominant gastropathogen detected.
- Other gastropathogens reported included EPEC (2%), EAEC (2%), *Y. enterocolitica* (<1%) and Adeno 40/41 (1.1%).
- *Please send WSLH a sampling of Rotavirus positive specimens (e.g. 1 per week maximum).

Week Ending April 20, 2019

GI Pathogen PCR	# Tested	% Positive
Rotavirus	333	14.1
Norovirus	314	8.9
Astrovirus	199	4.5
Sapovirus	199	2.0
Salmonella	552	1.8
STEC	491	1.6
Campylobacter	500	1.4
Cryptosporidium	233	1.3
Shigella	398	<1
Giardia	233	<1
<i>E. coli</i> O157	198	0