

Laboratory Surveillance Report

Influenza (Week ending December 14, 2019)

Surveillance Data Synopsis

- Influenza and RSV were the predominant respiratory viruses reported.
- Influenza activity is classified as regional in Wisconsin and activity is increasing.
- Norovirus and EPEC were the most frequently reported gastro-pathogens.

National Influenza Update (CDC)

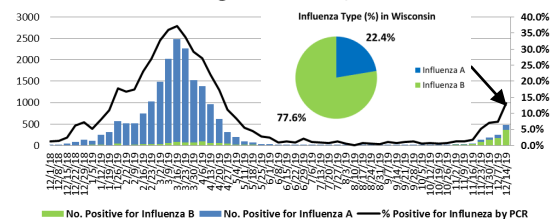
- Nationally, the CDC reported influenza activity was widespread in 30 US states.
- Influenza B accounted for the majority (61.5%) of the influenza positives reported in the US.
- 87.2% of the influenza A viruses subtyped were seasonal (H1N1)pdm09.
- The majority of influenza A and B strains characterized were similar to those strains included in the 2019-2020 vaccine.

Circulating Strains	% Similar to vaccine strain
Inf B (Vic)	76
Inf B (Yam)	100
Inf A (H3N2)	70.6
Inf A (H1N1)pdm09	100

Wisconsin Influenza Update

- WI labs reported a total of 13.2% of the 3,587 specimens tested by PCR were positive for influenza virus (A & B).
- Influenza B (B/Victoria lineage) was the predominant influenza virus (77.6%).
- Of the influenza A viruses subtyped, the majority were seasonal H1N1 pdm09 (71%).

% Positive for Influenza by PCR (Wisconsin), Week Ending December 14, 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. no more than 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 December 14, 2019

Resp. Pathogen PCR	# Tested	% Positive
Influenza	3,587	13.2↑
RSV	1,327	12.7↑
Rinovirus/ Enterovirus	668	10.6
Human metapneumovirus	723	4.7↑
Coronavirus	295	4.4↑
Adenovirus	295	3.4
Parainfluenza	697	3.3
<i>B. pertussis</i>	510	2.7

Respiratory

- Influenza and RSV were the predominant respiratory pathogens reported in WI.

Gastropathogens

- Other gastropathogens reported included EPEC (7.1%), ETEC (<1%), EAEC (3.9%), *P. shigelloides* (<1%), *Y. enterocolitica* (1.6%), Astrovirus (<1%) and Adeno 40/41 (<1%).
- *Please send WSLH a sampling of rotavirus positive specimens (e.g. 1 per week).

Week Ending December 14, 2019

GI Pathogen PCR	# Tested	% Positive
Norovirus	384	9.1↑
Sapovirus	154	3.2
Campylobacter	540	2.0
Salmonella	564	1.2
STEC	514	<1
Giardia	332	<1
Cryptosporidium	332	<1
Shigella	483	<1
<i>E. coli</i> O157	233	<1
Rotavirus	354	0
Cyclospora	290	0