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February 21, 2022

Laboratory Surveillance Report

SARS-CoV-2 & Influenza Surveillance Updates:

Surveillance Data Synopsis

SARS-CoV-2

- SARS-CoV-2 activity is high, but decreasing in Wisconsin.
- Omicron variant was the predominant lineage detected in Wisconsin (>99%) and nationally (100%).

Influenza

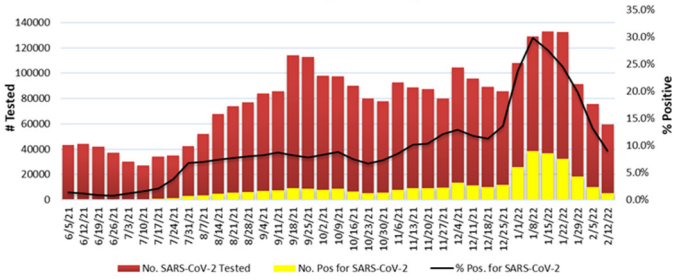
- Influenza activity is increasing slightly in Wisconsin (3.6%) and nationally (3.0%).
- The dominant Influenza subtype is H3N2.

- In Wisconsin, SARS-CoV-2 positivity was 9.0% of the 59,644 specimens tested by PCR and reported to WSLH.
- In the US, the 7 day average SARS-CoV-2 percent positivity is 8.4%.
- Wisconsin genomic sequencing data showed the Omicron [B.1.1.529/BA.1 and its sublineages] variant of concern was the *predominant* lineage detected (>99%).

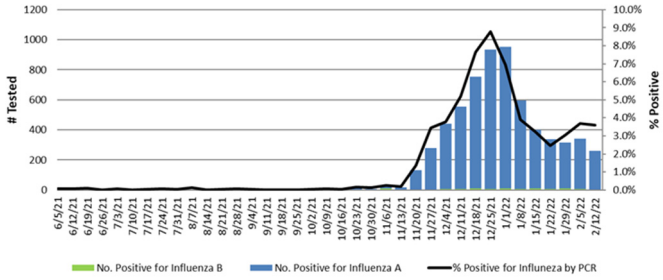
To enhance surveillance activities, the WSLH asks labs to please send:

1. A sampling of specimens from influenza-related hospitalizations (e.g. 1 per week).
2. Influenza A specimens that fail to subtype (Ct <35) if subytping for 2009 pdmH1 and H3 were performed.
3. Please send a maximum of 5 SARS-CoV-2 specimens per week.

% Positive SARS-CoV-2 by PCR (Wisconsin), January 2021 to Week Ending February 12, 2022



% Positive for Influenza by PCR (Wisconsin), June 2021 to Week Ending February 12, 2022



Links:

- The WSLH sequencing dashboard is available here: https://dataportal.slh.wisc.edu/sc2dashboard
- A current summary of COVID-19 data for Wisconsin can be found here: https://www.dhs.wisconsin.gov/covid-19/data.htm
- The influenza, RSV and respiratory virus activity graphs can be viewed here: http://www.slh.wisc.edu/wcln-surveillance/surveillance/virology-surveillance/
- The bacterial, viral and parasitic activity graphs can be viewed here: http://www.slh.wisc.edu/wcln-surveillance/surveillance/gastropathogen-surveillance/

Week Ending February 12, 2022*

Resp. Pathogen PCR	# Tested	% Positive
SARS-CoV-2	59644	9.0↓
Seasonal coronaviruses	162	7.4
Human metapneumovirus	702	6.3
Rhinovirus/ Enterovirus	649	5.5
Influenza	7300	3.6
Parainfluenza	682	3.1
RSV	3160	2.2
Adenovirus	162	1.2
B. pertussis	376	0.5

Other Surveillance Data-Wisconsin:

Respiratory pathogens

- SARS-CoV-2 activity in WI is high but decreasing.
- Seasonal respiratory virus activities are increasing including seasonal coronaviruses and human metapneumovirus.

Gastropathogens

- Norovirus activity in WI is increasing.
- Others detected included: EAEC (4.2%), EPEC (3.5%), Astrovirus (2.4%), Adenovirus 40/41(2.1%), ETEC (2.1%), *Yersinia enterocolitica* (0.7%), EIEC (0.6%) and *Plesiomonas shigelloides* (0.5%).

Week Ending February 12, 2022*

GI Pathogen PCR	# Tested	% Positive
Norovirus	269	10.4↑
Rotavirus	268	3.7
Sapovirus	166	3.6
Campylobacter	371	1.3
Giardia	193	1.0
Salmonella	371	0.8
E. coli 0157	144	0.7
STEC	371	0.5
Cryptosporidium	193	0.5
Shigella	287	0.3
Cyclospora	144	0.0

* *On a weekly basis, participating Wisconsin clinical laboratories voluntarily report to WSLH the total number of tests performed, the method used for detection, and the number of those tests with positive results.*