Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN–MADISON
2601 Agriculture Dr.
Madison, WI 53718
608.224.4261

March 7, 2022

Laboratory Surveillance Report

SARS-CoV-2 & Influenza Surveillance Updates:

Surveillance Data Synopsis

SARS-CoV-2

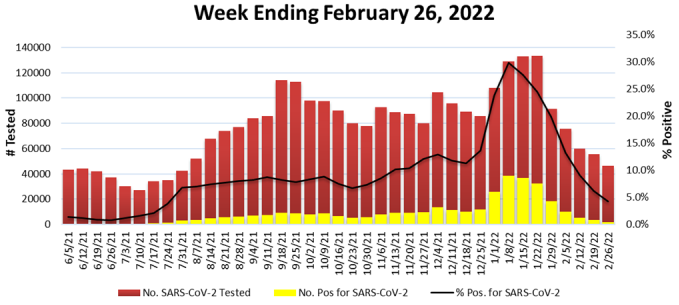
- SARS-CoV-2 activity is decreasing in Wisconsin.
- Omicron variant was the predominant lineage detected in Wisconsin (>99%) and nationally (100%).

Influenza

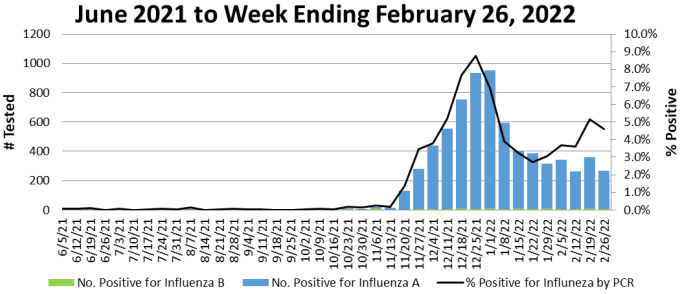
- Influenza activity is increasing slightly in Wisconsin (4.6%) and nationally (4.1%).
- The dominant Influenza subtype is H3N2.

- In Wisconsin, SARS-CoV-2 positivity was 4.3% of the 46,305 specimens tested by PCR and reported to WSLH.
- In the US, the 7 day average SARS-CoV-2 percent positivity is 3.8%.
- 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%).

% Positive SARS-CoV-2 by PCR (Wisconsin), June 2021 to Week Ending February 26, 2022



% Positive for Influenza by PCR (Wisconsin), June 2021 to Week Ending February 26, 2022



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 up to 5 SARS-CoV-2 specimens per week.

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 26, 2022*

Resp. Pathogen PCR	# Tested	% Positive
SARS-CoV-2	46305	4.3
Human metapneumovirus	660	10.9
Rhinovirus/ Enterovirus	704	9.1
Seasonal coronaviruses	161	7.5
Influenza A	5823	4.6
Parainfluenza	641	2.8
Adenovirus	161	1.9
RSV	2374	1.6
B. pertussis	268	1.1

Other Surveillance Data-Wisconsin:

Respiratory pathogens

- SARS-CoV-2 activity in WI is decreasing.
- Seasonal respiratory virus activities are increasing including seasonal coronaviruses, human metapneumovirus and rhinoviruses/ enteroviruses

Gastropathogens

- Norovirus activity in WI is increasing.
- Others detected included: EPEC (5.0%), Astrovirus (2.2%), EAEC (2.0%), ETEC (1.6%), Adenovirus 40/41(1.1%), *Yersinia enterocolitica* (0.7%), *Plesiomonas shigelloides* (0.5%), and *Vibrio* (0.2%)

Week Ending February 26, 2022*

GI Pathogen PCR	# Tested	% Positive
Norovirus	514	17.4↑
Rotavirus	481	10.2
Campylobacter	556	2.5
Sapovirus	360	1.9
Salmonella	556	1.4
Giardia	437	0.5
Cryptosporidium	437	0.5
STEC	556	0.2
E. coli 0157	340	0
Shigella	503	0
Cyclospora	343	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.*