

Laboratory Surveillance Report

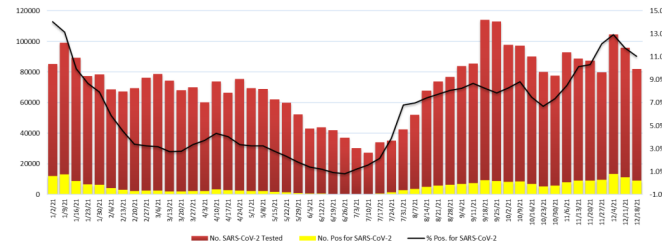
SARS-CoV-2 & Influenza Surveillance Updates

Surveillance Data Synopsis

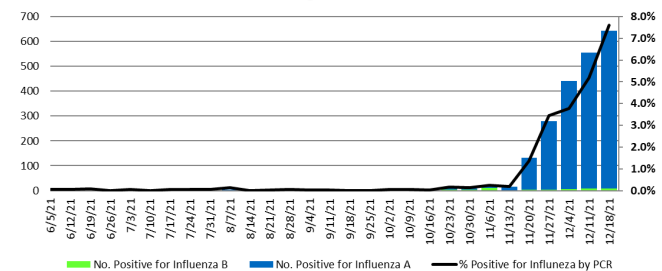
- Rhinovirus/Enterovirus activity remains high in Wisconsin.
- SARS-CoV-2 activity remains high in Wisconsin.
- Delta variant was the predominant lineage detected (62%).
- The proportion of Omicron variant is increasing in Wisconsin (38%) and nationally (73%)
- Influenza activity is increasing in Wisconsin and nationally.
- The dominant Influenza subtype is H3N2.

- In Wisconsin, SARS-CoV-2 positivity was 11.0% of the 82,068 specimens tested by PCR and reported to WSLH.
- In the US, the 7 day average SARS-CoV-2 percent positivity is 7.2%.
- Wisconsin genomic sequencing data showed Delta [B.1.617.2 and its sublineages] as the predominant lineage of SARS-CoV-2 detected (62%).
- The percentage of Omicron [B.1.1.529 and its sublineages] in Wisconsin is increasing (38%)
- The WSLH sequencing dashboard is available at <https://dataportal.slh.wisc.edu/sc2dashboard>
- In the US, the influenza positivity rate is 5.6%

% Positive SARS-CoV-2 by PCR (Wisconsin), January 2021 to Week Ending December 18, 2021



% Positive for Influenza by PCR (Wisconsin), June 2021 to Week Ending December 18, 2021



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. Specimens that fail to subtype (Ct <35) if subtyping for 2009 pdmH1 and H3 were performed.
3. Please send a maximum of 5 SARS-CoV-2 specimens per week.

Other Surveillance Data-Wisconsin

Week Ending December 18, 2021*

Resp. Pathogen PCR	# Tested	% Positive
SARS-CoV-2	82,068	11.0
Rhinovirus/Enterovirus	1029	14.9
Influenza	8469	7.6 ↑
RSV	3984	6.0
Parainfluenza	1081	6.0
Seasonal coronaviruses	313	5.4
Human metapneumovirus	1097	2.8
Adenovirus	313	1.3
<i>B. pertussis</i>	356	0

Respiratory

- SARS-CoV-2 activity in WI remains high.
- Rhinovirus/Enterovirus activity remains high.
- Seasonal respiratory virus activities are increasing including influenza, seasonal coronaviruses and human metapneumovirus.

Gastropathogens

- Others detected included: Astrovirus (5.4%), EPEC (3.3%), Adenovirus 40/41 (2.6%), Aeromonas (1.3%), STEC (1.1%), EAEC (0.8%) and EIEC (0.6%)

Week Ending December 18, 2021*

GI Pathogen PCR	# Tested	% Positive
Norovirus	246	2.8
Sapovirus	130	2.3
<i>Campylobacter</i>	351	1.7
STEC	351	1.1
<i>Salmonella</i>	351	0.9
<i>Giardia</i>	148	0.7
Rotavirus	248	0
<i>Cryptosporidium</i>	148	0
<i>Shigella</i>	247	0
<i>E. coli</i> O157	122	0
<i>Cyclospora</i>	122	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.