

MLS Laboratory Update: Ending Mosquito-borne Arbovirus Testing for the 2024 Season

DECEMBER 2, 2024

Purpose of this Message:

To notify clinical laboratory partners of the seasonal discontinuation of arboviral testing services at the Minnesota Department of Health-Public Health Laboratory (MDH-PHL).

Action Item:

Note update to mosquito-borne arboviral testing offered and share with partners.

Background:

With the change of seasons, surveillance for most mosquito-borne arboviral diseases, including West Nile virus (WNV), will be ending for 2024. Because ticks remain active longer than mosquitoes, testing for antibodies to the tickborne-borne Powassan virus (POW) will continue until temperatures remain consistently below 40° F. Clinicians should be aware that Powassan viral infection is still possible when evaluating a patient with encephalitis. Please provide symptom onset dates when requesting serology testing for Powassan in the *Test and Epidemiology Information* section of the [MDH Infectious Disease Laboratory Submission Form](https://www.health.state.mn.us/diseases/idlab/mdh_lab_submission.pdf) (https://www.health.state.mn.us/diseases/idlab/mdh_lab_submission.pdf)

In summary:

- Testing for West Nile, Jamestown Canyon, and other mosquito-borne viruses will end after 12/2/2024.
- MDH will continue to test for Powassan virus until temperatures are consistently below 40° F (estimated to be mid-December)

Acceptable specimen types for POW serological testing include both CSF and serum. Information regarding acceptable specimen types can be found on the [MDH-IDL Test Catalog page](https://labinventory.web.health.state.mn.us/#/) (<https://labinventory.web.health.state.mn.us/#/>).

More information about POW can be found at [Powassan Virus Disease](https://www.health.state.mn.us/diseases/powassan/index.html) (<https://www.health.state.mn.us/diseases/powassan/index.html>)

Additional Information:

Key Points:

- MDH-PHL continues to offer Powassan virus testing for the 2024 season.
- **Symptom onset date must be provided** for testing to be performed. [The General Infectious Disease Laboratory Submission Form](#)

<https://www.health.state.mn.us/diseases/idlab/forms.html> provides a place for this information to be recorded.

- Healthcare providers and clinical laboratories are required to report all suspect and confirmed arboviral disease cases to MDH within one working day.

Testing Done at MDH-PHL: Any specimen submitted for arboviral testing after 12/2/2024 will be tested for the presence of IgM antibodies for Powassan virus.

Our current arboviral panel currently includes:

- Serum and/or CSF specimens:
 - Powassan (POW) IgM enzyme-linked immunosorbent assay (EIA)

Specimen Requirements:

- 1 ml of serum (preferred)
- 1 ml CSF (preferably with a paired serum)
- Please ship specimens on cold packs (2-8°C) within 48 hours of collection. If shipping will be delayed, please freeze specimens and ship to MDH frozen.

If travel-associated arboviral infections are suspected –such as Zika, dengue, or chikungunya – or if you have additional questions about arboviral disease, please contact MDH Epidemiology at 651-201-5414.

For more information about arboviruses, please see [Vectorborne Diseases](https://www.health.state.mn.us/diseases/vectorborne/index.html) (<https://www.health.state.mn.us/diseases/vectorborne/index.html>).

For the most up to date submission form, please see [Forms for the Infectious Disease Laboratory](https://www.health.state.mn.us/diseases/idlab/forms.html) (<https://www.health.state.mn.us/diseases/idlab/forms.html>)

Questions:

For specimen or assay-specific questions, please contact:

Sarah Namugenyi, Interim Virology Unit Supervisor; 651-201-5691,
Sarah.Namugenyi@state.mn.us

OR the MN LabSystem inbox at health.mnlabssystem@state.mn.us

For case reporting or arbovirus information:

Vectorborne Disease Epidemiology at 651-201-5414

Thank you for your partnership and continued arboviral disease surveillance efforts in Minnesota.

THIS IS AN UPDATE FROM THE MINNESOTA DEPARTMENT OF HEALTH – PUBLIC HEALTH LABORATORY (MDH-PHL) AND THE MINNESOTA LABORATORY SYSTEM (MLS). THIS MESSAGE IS BEING SENT TO MLS LABORATORY CONTACTS SERVING MINNESOTA RESIDENTS. YOU ARE NOT REQUIRED TO REPLY TO THIS MESSAGE.

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12/02/24

To obtain this information in a different format, call: 651-201-5200.