Mosquito-borne Disease Laboratory Testing

Clinical suspicion of a mosquito-borne disease (MBD) based on the following:
- Symptoms including, but not limited to:
  - Fever
  - Headache
  - Meningitis
  - Encephalitis
  - Meningoencephalitis
- Time of year (e.g., during active mosquito seasons)
- Exposure history (refer to the following for potential exposure guidance):
  - https://www.cdc.gov/travel/destinations/list

Testing should be tailored based on clinical presentation, exposure history, and known endemic mosquito-borne pathogens.

If Powassan virus is suspected see Acute Tick-Borne Disease Testing Algorithm.
If any of the following are suspected, contact your local public health department or the CDC for testing options:
- Bourbon virus
- Heartland virus
- Jamestown Canyon virus

### Algorithm for information

**Malaria suspected**
- Refer to the Malaria Laboratory Testing Algorithm for information

**Filaria suspected**
- Order:
  - FIL / Filaria, Blood
  - FFAG4 / Filaria, IgG4

**Arbovirus infection suspected**
- Specimen collected ≤7 days after symptom onset
- Specimen collected >7 days after symptom onset

**If** mosquito exposure occurred **within** the United States (US), consider the following tests:

- **ARBOP** / Arbovirus Antibody Panel, IgG and IgM, Serum
- **ABOPC** / Arbovirus Antibody Panel, IgG and IgM, Spinal Fluid
- **CAVPC** / California Virus (La Crosse) Encephalitis Antibody Panel, IgG and IgM, Spinal Fluid
- **CAV** / California Virus (La Crosse) IgG and IgM, Serum
- **EEEP** / Eastern Equine Encephalitis Antibody Panel, IgG and IgM, Serum
- **EEPC** / Eastern Equine Encephalitis Antibody, IgG and IgM, Serum
- **STLPC** / St. Louis Encephalitis Antibody Panel, IgG and IgM, Serum
- **STLP** / St. Louis Encephalitis Antibody, IgG and IgM, Serum
- **WEEP** / Western Equine Encephalitis Antibody Panel, IgG and IgM, Spinal Fluid
- **WEE** / Western Equine Encephalitis Antibody, IgG and IgM, Serum
- **CAVP** / California Virus (La Crosse) IgG and IgM, Serum
- **CAVPC** / California Virus (La Crosse) Encephalitis Antibody Panel, IgG and IgM, Spinal Fluid
- **EEEP** / Eastern Equine Encephalitis Antibody Panel, IgG and IgM, Spinal Fluid
- **EEPC** / Eastern Equine Encephalitis Antibody, IgG and IgM, Spinal Fluid
- **STLPC** / St. Louis Encephalitis Antibody Panel, IgG and IgM, Spinal Fluid
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