



What are Tickborne Diseases?

Tickborne diseases can be acquired throughout the Untitled States from a variety of ticks, which carry and pass on different microorganisms to humans and animals.



Symptoms:

Tickborne diseases can cause a variety of symptoms and usually develop within several days to a few weeks after a tick bite. Symptoms of tickborne diseases include:

- Fever and/or chills
- Headache
- Bell's palsy
- Neck stiffness
- Fatigue
- Muscle or joint aches/pains
- GI symptoms: nausea, vomiting, diarrhea
- Change in cognitive or psychological status

- Loss of appetite
 - Weight loss
- Anemia
- Enlarged, tender lymph nodes
- Rash
- Painful abdomen
- Dizziness or shortness of breath
- Numbness or weakness in limbs



Chills

Jeck stiffness

Shortness

Muscle pains

- Tick Exposure Risks: Ticks are commonly found in wooded, brushy or grassy areas. They often sit on the tips of tall grass or shrubs waiting for a human or animal host to pass.
- Common Tickborne Diseases: The most common tickborne diseases (TBDs) in the United States are Anaplasmosis, Babesiosis, Bartonella infections, Ehrlichiosis, Rickettsiosis, Rocky Mountain spotted fever (RMSF), and Lyme disease
- Lyme Disease: Lyme disease is among the most familiar of tickborne diseases that can affect humans.

The U.S. Centers for Disease Control and Prevention (CDC) estimates that the true incidence rate of Lyme disease is 10 times greater than what is reported. This is partly attributed to the limitations in diagnosis. Researchers are being encouraged to find ways to improve the diagnosis of Lyme and tickborne diseases.

The Vibrant Tickborne Disease panel provides you with a tool for early identification and differentiation between different tickborne diseases. Vibrant utilizes silicon micro-array technology for an improved sensitivity & specificity for the detection of tickborne diseases.

Lyme + TBRF

Lyme Immunochip IgM

Borrelia burgdorferi VIsE1 IgM Borrelia burgdorferi C6 peptide IgM Borrelia burgdorferi spp. 18 kDa lgM Borrelia burgdorferi spp. 23-25 kDa IgM Borrelia burgdorferi spp. 28 kDa IgM Borrelia burgdorferi spp. 30 kDa IgM Borrelia burgdorferi spp. 31 kDa IgM Borrelia burgdorferi spp. 34 kDa IgM Borrelia burgdorferi spp. 39 kDa IgM Borrelia burgdorferi spp. 41 kDa IgM Borrelia burgdorferi spp. 45 kDa IgM Borrelia burgdorferi spp. 58 kDa IgM Borrelia burgdorferi spp. 66 kDa IgM Borrelia burgdorferi spp. 83-93 kDa IgM

Lyme Immunochip IgG

Borrelia burgdorferi VIsE1 IgG Borrelia burgdorferi C6 peptide IgG Borrelia burgdorferi spp. 18 kDa IgG Borrelia burgdorferi spp. 23-25 kDa IgG Borrelia burgdorferi spp. 28 kDa IgG Borrelia burgdorferi spp. 30 kDa IgG Borrelia burgdorferi spp. 31 kDa IgG Borrelia burgdorferi spp. 34 kDa IgG Borrelia burgdorferi spp. 39 kDa IgG Borrelia burgdorferi spp. 41 kDa IgG Borrelia burgdorferi spp. 45 kDa IgG Borrelia burgdorferi spp. 58 kDa IgG Borrelia burgdorferi spp. 66 kDa IgG Borrelia burgdorferi spp. 83-93 kDa IgG

Lyme PCR

Borrelia burgdorferi spp. Borrelia afzelii Borrelia garinii

TBRF Immunochip IgM

Borrelia miyamotoi IgM Borrelia hermsii IgM Borrelia turicatae IgM

TBRF Immunochip IgM

Borrelia miyamotoi IgM Borrelia hermsii IgM Borrelia turicatae IgM

TBRF PCR

Borrelia TBRF spp. Borrelia Ionestari Borrelia mivamotoi

Coinfections

Babesia Immunochip IgM

Babesia microti IRA IgM Babesia microti p32 lgM Babesia microti p41 IgM

Babesia Immunochip IgG

Babesia microti IRA IgG Babesia microti p32 IgG Babesia microti p41 IgG

Babesia PCR

Babesia microti Babesia duncani

Bartonella Immunochip IgM

Bartonella henselae 17 kDa IgM Bartonella henselae 26 kDa IgM Bartonella henselae SucB IgM

Bartonella Immunochip IgG

Bartonella henselae 17 kDa IgG Bartonella henselae 26 kDa IgG Bartonella henselae SucB IgG

Bartonella PCR

Bartonella spp.

HGA Immunochip IgM

Anaplasma phagocytophilum Msp5 IgM Anaplasma phagocytophilum p44 lgM Anaplasma phagocytophilum Msp5 lgG Anaplasma phagocytophilum p44 IgĞ

HME and HGA PCR

Anaplasma phagocytophilum Ehrlichia chaffeensis Ehrlichia ewingii

Chlamydophila pneumoniae

Chlamydophila pneumoniae IgM Chlamydophila pneumoniae IgG

Chlamydophila pneumoniae

Chlamydophila pneumoniae

Mycoplasma PCR

Mycoplasma spp.

RMSF PCR Rickettsia rickettsii

Tularemia PCR

Francisella spp.



Tips to Prevent Tick Bites

Here are some recommended measures to prevent tick bites and reduce disease exposure risk:

- Avoid tick-infested areas such as shortcuts through heavily wooded or grassy areas. Stay on designated paths.
- Wear long sleeve shirts and long pants to reduce skin exposure.
- Use repellent that contains 20 to 30 percent DEET on exposed skin and clothing.



Types of Ticks (Image source: Mayo Foundation for Medical Education and Research)



American Dog Tick (aka Wood Tick)

Location: East of the Rocky Mountains and some parts of the Pacific coast

Transmits: Rocky Mountain spotted fever (RMSF), Tularemia



Blacklegged Tick

Location: Northeastern and upper midwestern U.S.; prevalent on the Pacific coast

Transmits: Lyme disease, Anaplasmosis, Babesiosis, Powassan disease



Brown Dog Tick

Location: Worldwide

Transmits: RMSF in Southwestern U.S. and along U.S.-Mexico border



Groundhog Tick

Location: Eastern U.S. and Canada Transmits: Powassan disease



Gulf Coast Tick

Location: Atlantic and Gulf coasts Transmits: Rickettsiosis



Lone Star Tick

Location: Southeastern and Eastern U.S. Transmits: Tularemia, Ehrlichiosis, Southern tick associated rash illness (STARI)



Rocky Mountain Wood Tick

Location: Rocky Mountain states, Southwestern Canada Transmits: RMSF, Tularemia, Colorado tick fever



Soft Tick

Location: Western U.S., Southwestern Canada Transmits: Tickborne relapsing fever

Regulatory Statement



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