West Nile Virus

Following the introduction of West Nile Virus (WNV) into the US in 1999, severe periodic outbreaks have occurred and are expected to continue in the coming years.1 West Nile Virus is primarily transmitted through mosquitoes and during peak adult mosquito season (July through October), laboratory testing may be indicated for individuals with symptoms. While most infections are asymptomatic, 1 in 5 individuals infected with WNV demonstrate symptoms, and 1 in 150 shows CNS involvement.1 A fulminant course is fatal.

Symptoms may include general malaise, fever, chills, headache, fatigue, myalgias, stiff neck, arthralgia, with 50% of patients presenting with maculopapular rash. Severity of disease, including CNS involvement, is correlated with age, being more severe in individuals older than 50.1 Flu-like symptoms occur after an incubation period of 3 to 14 days.1

Laboratory Testing

West Nile Virus Antibody, Serum .......................... 138842
West Nile Virus Antibody, Cerebrospinal Fluid .......... 138966

Arbovirus

Excluding West Nile Virus, there are four main arbovirus agents of encephalitis: La Crosse encephalitis (LAC); Eastern Equine Encephalitis (EEE); Western Equine Encephalitis (WEE); and St. Louis Encephalitis (SLE). SLE is the most commonly mosquito-transmitted human pathogen in the US.2 Incidence of disease varies with occurrence and intensity of epidemic transmission. Populations at increased risk include children (LAC), rural residents of the West (WEE), and the elderly (SLE).2

Laboratory Testing

Arboviral Encephalitis Antibodies Profile, IgG ........... 162008
  California/LaCrosse Encephalitis IgG Ab, Eastern Equine
  Encephalitis IgG Ab, St Louis Encephalitis IgG Ab, Western
  Equine Encephalitis IgG Ab
Arbovirus IgM Antibody Panel ............................. 162305
  California/LaCrosse Encephalitis IgM Ab, Eastern Equine
  Encephalitis IgM Ab, St Louis Encephalitis IgM Ab, Western
  Equine Encephalitis IgM Ab

Individual Arbovirus Tests

California Encephalitis Virus Antibodies, IgG ............ 162016
California Encephalitis Virus Antibodies, IgM .......... 162313
Eastern Equine Encephalitis Virus Antibodies, IgG .... 162024
Eastern Equine Encephalitis Virus Antibodies, IgM .... 162321
St Louis Encephalitis Virus Antibodies, IgG ............ 162032
St Louis Encephalitis Virus Antibodies, IgM .......... 162339
Western Encephalitis Virus Antibodies, IgG ........... 162040
Western Encephalitis Virus Antibodies, IgM .......... 162347

For more information, contact LabCorp client services at 800-762-4344.

References