Lymphocytic Choriomeningitis (LCM) Virus by IFA

Test Highlights

Detects IgG and/or IgM antibodies against lymphocytic choriomeningitis virus in either serum or cerebrospinal fluid (CSF).

Disease Overview

- LCM is a rodent-borne viral disease.
- The virus can present as an aseptic meningitis, encephalitis, or meningoencephalitis. However, asymptomatic infection is common.

Epidemiology

- Infection in humans can occur via contact with droppings, urine, and saliva from infected mice.
- Anti-LCM antibody prevalence may vary depending on the prevalence of mice in the area, but has been reported to be as high as 4.7 percent in inner cities, where large mouse populations exist in close proximity to humans.

Indications for Ordering

Suspected LCM infection.

Interpretation

- A positive result of 1:10 or greater indicates a detectable level of corresponding IgG or IgM antibodies.
- A result of <1:10 is considered negative for anti-LCM virus antibodies.

Limitations

- This test has been validated for serum and CSF samples only; no other sample types may be used.
- Antibody testing has limited utility in patients who are HIV positive or otherwise immunocompromised.

Methodology

Indirect fluorescent antibody (IFA).

References

1. Mandell G, Bennett J, Dolin R, eds. *Principles and Practice of Infectious Diseases*, 5th ed. New York: Churchill Livingston, 2000.
2. Marrie TJ, Saron MF. Seroprevalence of lymphocytic choriomeningitis virus in Nova Scotia. *Am J Trop Med Hyg* 1998(58):47–9.
3. Barton LL, Hyndman NJ. Lymphocytic choriomeningitis virus: reemerging central nervous system pathogen. *Pediatrics* 2000(105):e35.

Test Information

2001628	Lymphocytic Choriomeningitis (LCM) Virus Antibodies, IgG & IgM, CSF
2001629	Lymphocytic Choriomeningitis (LCM) Virus Antibody, IgG, CSF
2001630	Lymphocytic Choriomeningitis (LCM) Virus Antibody, IgM, CSF
2001633	Lymphocytic Choriomeningitis (LCM) Virus Antibody, IgG
2001634	Lymphocytic Choriomeningitis (LCM) Virus Antibody, IgM
2001635	Lymphocytic Choriomeningitis (LCM) Virus Antibodies, IgG & IgM

For specific collection, transport, and testing information, refer to the ARUP Web site at www.aruplab.com.
For information on test selection, ordering, and interpretation, refer to ARUP Consult® at www.arupconsult.com.

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