Primary Resource: Public Health Ontario - Lyme Disease

Assessment and Diagnostics
- Centers for Disease Control [www.cdc.gov/lyme](http://www.cdc.gov/lyme)
- Public Health Ontario (PHO) Public Health Ontario-Lyme Disease

European Lyme Disease
- Different strains of Borrelia - B. garinii and B afzelii
- Routine EIA screen will be positive, but requires Immunoblot testing specific to these strains
- If suspected, clinician must specifically request on requisition AND include risk area travelled (see endemic risk areas below)

Endemic/Risk Areas
Ontario: [www.publichealthontario.ca](http://www.publichealthontario.ca) (search “Ontario Lyme disease risk areas map” - updated annually)
USA: Centers for Disease Control [www.cdc.gov/lyme/stats/index.html](http://www.cdc.gov/lyme/stats/index.html)
International: International Association for Medical Assistance to Travellers (IAMAT) [www.iamat.org/risks/lyme-disease](http://www.iamat.org/risks/lyme-disease)

Clinical Practice Guidelines and Treatment
- IDSA 2020 Guidelines for the Prevention, Diagnosis and Treatment of Lyme Disease [IDSA Lyme](http://www.cdc.gov/lyme) (most current IDSA guidelines also linked on PHO website - Lyme Disease)
- Ontario Clinical Guidance on Lyme Disease (accessible at Ontario.ca/lyme-disease)
- Canadian Clinical Guidance on Lyme Disease (accessible at Canada.ca/lyme-disease)

Two-tiered testing for Lyme Disease

First test
- Enzyme Immunoassay (EIA) or Immunofluorescence Assay (IFA)
- Positive or Equivocal Result
- Negative Result

Second test
- Signs or symptoms ≤ 30 days
- Signs or symptoms > 30 days
- IgM and IgG Western Blot
- IgG Western Blot ONLY

Consider alternative diagnosis or If patient with signs/symptoms consistent with Lyme disease for ≤ 30 days, consider obtaining a convalescent serum

Figure 1: Recommended two-tiered testing for Lyme disease by CDC and Public Health Ontario (PHO)

Note: PHO lab replaced Western Blot with Line Blot - same test, different manufacturer

Alternate formats of this document are available upon request.

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