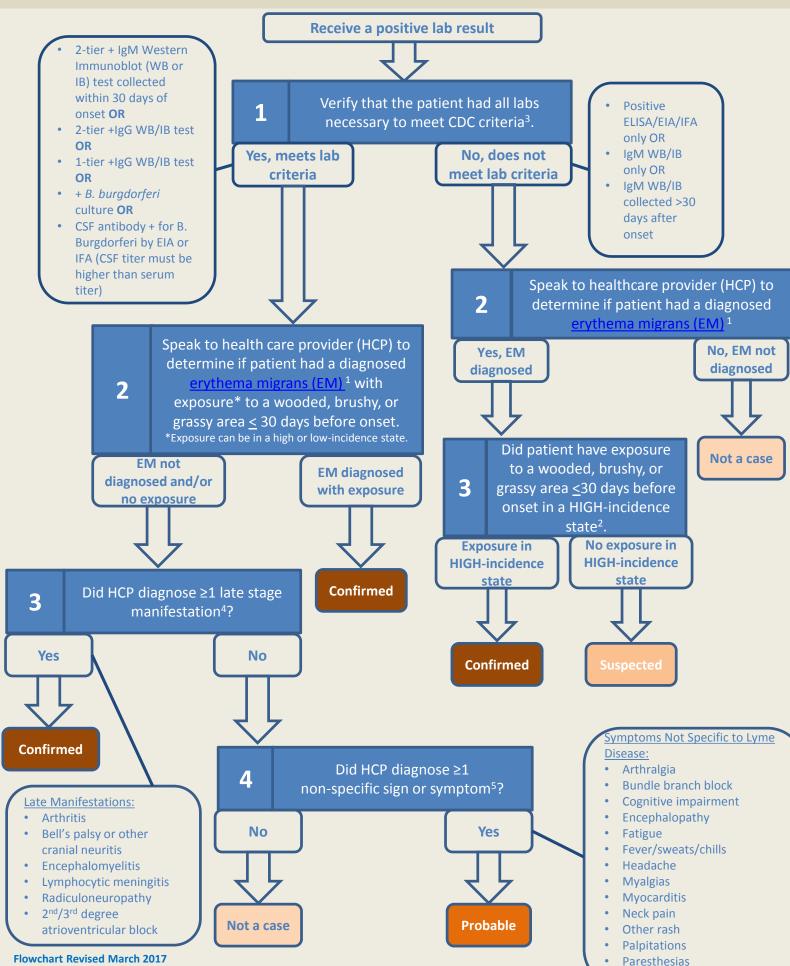
Michigan Department of Health and Human Services Guidance for Lyme Disease Case Report Classification

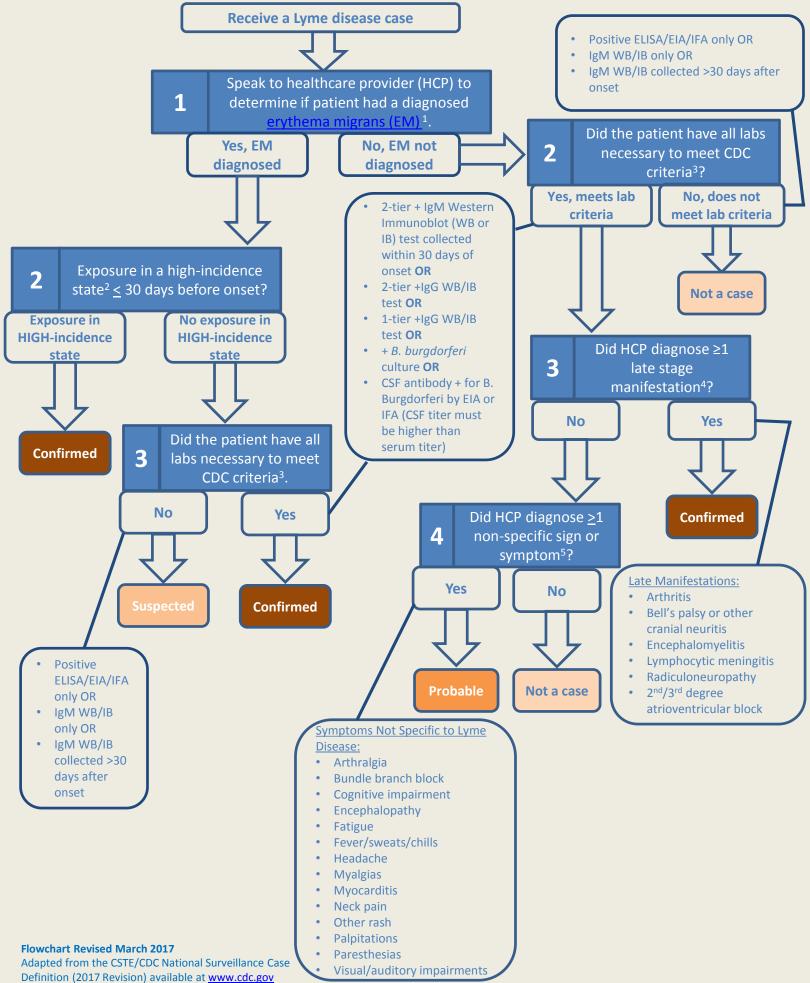


Visual/auditory impairments

Adapted from the CSTE/CDC National Surveillance Case Definition (2011 Revision) available at <u>www.cdc.gov</u>

Michigan Department of Health and Human Services Guidance for Lyme Disease Case Report Classification



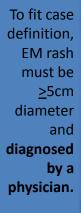


Michigan Department of Health and Human Services Guidance for Lyme Disease Case Report Classification

 Erythema migrans (EM) is the rash characteristic of acute Lyme disease infection and appears usually 7-10 days (range 1-33 days) after a tick bite. Often referred to as the "bull's-eye rash" it may appear either as a single expanding red patch, or a central spot surrounded by clear skin that is in turn ringed by an expanding red rash. Erythema migrans occurs in 70% of all cases of Lyme disease.

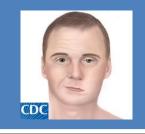
If EM rash is indicated in the case report, or reported by the patient; please **verify** that the rash was documented by a physician or other health care professional in the medical record.

EM rash is often accompanied by acute symptoms such as: fatigue, fever, headache, stiff neck, arthralgia or myalgia.





- 3. Two-tier testing includes an initial screen by enzyme immunoassay (EIA, ELISA, or C6 peptide) or indirect immunofluorescence assay (IFA), followed by a Western Immunoblot (WB or IB) on any positive or equivocal EIA, ELISA, C6 or IFA results.
- 4. Late stage manifestations include EM rash or any of the following: arthritis (objective episodes of joint swelling), Bells palsy or other cranial neuritis, encephalomyelitis (CSF titer must be higher than serum titer), lymphocytic meningitis, radiculoneuropathy, or 2nd or 3rd degree atrioventricular block.





- 5. Non-specific signs or symptoms include arthralgia, bundle branch block, cognitive impairment, encephalopathy, fatigue, fever/sweats/chills, headache, myalgias, myocarditis, neck pain, other rash, palpitations, paresthesias, visual/auditory impairments.
- 2. Not all ticks carry or transmit Lyme disease. Patients may not have removed a tick or remember a tick bite so it is important to determine if there was exposure to wooded or grassy habitats less than or equal to 30 days before the onset of clinical signs. Since infected ticks are not uniformly distributed, a detailed history to verify whether exposure occurred in a high or low incidence state is needed. A high-incidence state is defined as those states with the average Lyme disease incidence of at least 10 confirmed cases/100,000 for the previous three years. A low-incidence state is defined as those states with the average disease incidence of < 10 confirmed cases/100,000. As of 2017, Michigan is considered a low-incidence state. High-incidence states for 2017 include (www.cdc.gov/lyme/stats/tables.html):</p>
 - Connecticut (CT)
 - Delaware (DE)
 - Maine (ME)
 - Maryland (MD)
 - Massachusetts (MA)
 - Minnesota (MN)
 - New Hampshire (NH)

- New Jersey (NJ)
- New York (NY)
- Pennsylvania (PA)
- Rhode Island (RI)
- Vermont (VT)
- Virginia (VA)
- Wisconsin (WI)



Flowchart Revised March 2017

Adapted from the CSTE/CDC National Surveillance Case Definition (2017 Revision) available at <u>www.cdc.gov</u>