LYME DISEASE

NON-IMMEDIATE NOTIFICATION

EPIDEMIOLOGY PROGRAM

Event Name:	LYME	
Event Time Period:	One year based on calendar year (January through December)	
Clinical Description (CDC 2021):	Not applicable for high incidence jurisdictions including Massachusetts	
CDC Event Classification (2021):	Confirmed	Not applicable for high incidence jurisdictions including Massachusetts
	Probable Suspect	 A case that meets the following confirmatory laboratory evidence: Isolation of <i>B. burgdorferi sensu stricto</i> or <i>B. mayonii</i> in culture, OR Detection of <i>B. burgdorferi sensu stricto</i> or <i>B. mayonii</i> in a clinical specimen by a <i>B. burgdorferi</i> group-specific NAAT assay, OR Detection of <i>B. burgdorferi</i> group-specific antigens by immunohistochemical assay on biopsy or autopsy tissues, OR Positive serologic tests in a two-tier or equivalent format, including:
	1	1. Positive IgG immunoblot, interpreted according to established criteria4, without a positive or equivocal first-tier screening assay.
Massachusetts Event Classification (2021):	Suspect	A case with positive or equivocal laboratory evidence that does not meet the probable case definition above.

MDPH Case Classification Manual Lyme disease

Page 1 of 4 Last modified: 8/28/2023

LYME DISEASE (continued)

Report Type	Test	Result	Source	New event or beyond report period?	Data Entry
Laboratory report	Culture	Borrelia burgdoferi or	Clinical Specimen	Yes	New event PROBABLE
		Borrelia mayonii		No	Same event
Select:	Microorganism: PrId: Pt: x	xx : Nom : Aerobic o	culture		
Laboratory report	EIA	Positive or	Serum, CSF,	Yes	New event
	ELISA C6 Peptide Ab	Equivocal	synovial fluid	No	SUSPECT Same event
Select (total Ab):	Borrelia burgdorferi Ab: ACı	nc. Pt · vvv · On· FI	Δ	INO	Same event
Select (MTTT total Ab):	MTTT Borrelia VlsE1/pepC1		1		
Select (MTTT total Ab):	MTTT LIAISON Lyme Total Antibody Plus test				
Select (C6 Peptide):	Borrelia burgdorferi C6 Ab: ACnc: Ser :Pt: Qn				
Select (Borrelia sp	Borrelia species Ab [European].EIA				
European):					
Select (IgM-specific):	Borrelia burgdorferi Ab.IgM : ACnc : Pt : Flu : Qn : EIA				
Select (MTTT IgM-	MTTT B. burgdorferi IgM ELISA				
specific):					
Select (IgG-specific):	Borrelia burgdorferi Ab.IgG : ACnc : Pt : Flu : Qn : EIA				
Select (MTTT IgG-	MTTT B. burgdorferi IgG ELISA				
specific):		ı	1		
Laboratory report	IFA	Positive or	Serum, CSF,	Yes	New event
		Equivocal	synovial fluid	N	SUSPECT
C 1	Daniel Lance Landari Ale Tin	D C O IE		No	Same event
Select: Select (IgM-specific):	Borrelia burgdorferi Ab.: Tita Borrelia burgdorferi Ab.IgM		. TE		
Select (IgG-specific):	Borrelia burgdorferi Ab.IgG				
	MFI (Multiplex Flow	Positive or	Serum, CSF,	Yes	New event
Laboratory Report	Immunoassay)	Equivical	synovial fluid	ies	SUSPECT
	minunoassay)	Equivical	Syllovial Huld	No	Same event
Select (total Ab):	Borrelia burgdorferi Total Ab MFI			~ mile of our	
· · ·	RIBA OR Western Blot OR	OR Positive	Serum, CSF, synovial fluid	Yes	New event
J J	Immunoblot, WB IgM or				SUSPECT
	WB IgG			No	Same event

MDPH Case Classification Manual Lyme disease

Page 2 of 4 Last modified: 8/28/2023

Report Type	Test	Result	Source	New event or beyond report period?	Data Entry
Select (IgM-specific):	Borrelia burgdorferi Ab.IgM : ACnc : Pt : Flu : Ord : IB				
Select (IgG-specific):	Borrelia burgdorferi Ab.IgG : ACnc : Pt : xxx : Ord : IB				
Select (Borrelia sp European, IgM):	Borrelia species Ab [European].IgM.IB				
Select (Borrelia sp European, IgG):	Borrelia species Ab [European].IgG.IB				
Laboratory report	PCR OR DNA OR Genomic OR Plasmid	Positive	Serum, CSF, synovial fluid	Yes	New event PROBABLE
	(Borrelia burgdorferi)			No	Same event
Select (test is specific for B. burgdorferi):	Borrelia burgdorferi DNA:ACnc:PT: xxx : Ord : Probe.Amp.Tar				
Laboratory report	PCR OR DNA (Borrelia species)	Borrelia burgdorferi	Serum, CSF, synovial fluid	Yes	New event PROBABLE
		OR Borrelia mayonii		No	Same event
Select (test is for Borrelia species):	Borrelia sp DNA: Prid: Pt: XXX: Nom: Probe.amp.tar				
Laboratory report	IGXSpot Test (Antigen- specific T-cell Detection	Positive	Serum, CSF, synovial fluid	Yes	New event SUSPECT
	Test)			No	Same event
Select:	Borrelia burgdorferi IGXSpo	t			

Data entry note: When entering Lyme disease EIA or ELISA labs, the type of test to select may not be obvious. Please refer to the table below to determine the type of Lyme EIA/ELISA tests being performed by the facility specific subfolder you are entering. [Other test types such as PCR/DNA, Western blots, can continue to be entered as usual using the table above.]

\RightFaxInput\GENERAL EPI PROGRAM\7. Lyme	Lyme tests being performed
ACCU Reference	These tests should be entered as standard EIA total Ab, IgM, or IgG. They
	then reflex to a standard IgM or IgG Western blot.
Compass Medical	MTTT LIAISON Lyme Total Antibody Plus test
East Side Clinical Labs	East Side Clinical Labs send out to Sunrise Medical Laboratories who are
	using MTTT. They are running the MTTT Borrelia VlsE1/pepC10
	IgG/IgM ELISA and reflexing to MTTT B. burgdorferi IgM ELISA and

MDPH Case Classification Manual Lyme disease

Page 3 of 4

Last modified: 8/28/2023

	MTTT B. burgdorferi IgG ELISA.
IGeneX	Refer to separate data entry protocol
Interstate	Since these do not come in any standard format, unless specifically noted to
	be a MTTT approved test these serology tests should be entered as standard
	EIA total Ab, IgM or IgG specific tests when reported. Any questions can
	be sent to the Zoonotic Liaison.
Medical Diagnostic Laboratories	They perform Western blots, C6 peptide ELISAs and PCR tests. They also
	perform a Lyme total Ab test which can be entered as: Borrelia burgdorferi
	Ab: ACnc: Pt: xxx: Qn: EIA.
RI Women and Infants Hospital	This hospital performs the MTTT Lyme Total Antibody Plus Test followed
	by the MTTT B. burgdorferi IgM ELISA and MTTT B. burgdorferi IgG
	ELISA
The Miriam Hospital (TMH)/Lifespan	Borrelia burgdorferi Total Ab MFI followed by IgM and IgG Western blots
VA Healthcare System	VA CT is doing regional Lyme testing for other VAMCs and they are
	performing the MTTT Borrelia VlsE1/pepC10 IgG/IgM ELISA followed
	by the MTTT B. burgdorferi IgM ELISA and MTTT B. burgdorferi IgG
	ELISA