

LEPTOSPIROSIS**NON-IMMEDIATE NOTIFICATION****EPIDEMIOLOGY PROGRAM**

Leptospirosis was removed from the reportable disease list in MA in 2017. Results received no longer need to be entered.

Event Name:	LEPTO	
Event Time Period:	1 year	
Clinical Description (CDC 2013):	<p>An illness characterized by fever, headache, myalgia, and less frequently by conjunctival suffusion, meningitis, rash, jaundice, or renal insufficiency. Symptoms may be biphasic.</p> <p>Clinical presentation includes <u>history of fever within the past two weeks AND at least two of the following</u>: myalgia, headache, jaundice, conjunctival suffusion without purulent discharge, or rash <u>OR at least one of the following</u>: aseptic meningitis, GI symptoms (e.g., abdominal pain, nausea, vomiting or diarrhea), pulmonary complications (e.g., cough, breathlessness, hemoptysis), cardiac arrhythmias, ECG abnormalities, renal insufficiency (e.g., anuria, oliguria), hemorrhage (e.g., intestinal, pulmonary, hematuria, hematemesis), jaundice with acute renal failure.</p>	
CDC Event Classification (2013):	<i>Confirmed</i>	A case with any of the following confirmatory laboratory results: <ol style="list-style-type: none">1. Isolation of <i>Leptospira</i> from a clinical specimen OR2. Fourfold or greater increase in <i>Leptospira</i> agglutination titer between acute- and convalescent-phase serum specimens obtained studied at the same laboratory; OR3. Demonstration of <i>Leptospira</i> in tissue by direct immunofluorescence; OR4. <i>Leptospira</i> agglutination titer of ≥ 800 by Microscopic Agglutination Test (MAT) in one or more serum specimens; OR5. Detection of pathogenic <i>Leptospira</i> DNA from a clinical specimen.
	<i>Probable</i>	A clinically compatible case with at least one of the following: <ul style="list-style-type: none">• Involvement in an exposure event (e.g., adventure race, triathlon, flooding) with known associated cases; OR• Any of the following supportive laboratory results:<ol style="list-style-type: none">1. <i>Leptospira</i> agglutination titer of ≥ 200 but < 800 by MAT in one or more serum specimens;2. Demonstration of anti-<i>Leptospira</i> antibodies in a clinical specimen by indirect immunofluorescence3. Demonstration of <i>Leptospira</i> in a clinical specimen by dark field microscopy4. Detection of IgM antibodies against <i>Leptospira</i> in an acute phase serum specimen
Massachusetts Event Classification (2014):	<i>Follows the CDC event classification</i>	

LEPTOSPIROSIS (continued)

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry
Laboratory Report	Culture	Clinical specimen	Leptospira species	Yes	New event SUSPECT
				No	Same event
Select (no species identified):	Microorganism : PrId : Pt : xxx : Nom : Aerobic culture				
Select (species identified):	Microorganism : PrId : Pt : Islt : Nom : Bacterial subtyping				
Laboratory Report	Stain	Clinical specimen	Leptospira species	Yes	New event SUSPECT
				No	Same event
Select:	Microscopy: Prld: Pt: xxx: Nom: xxx stain				
Laboratory Report	IFA	Clinical specimen	Leptospira species	Yes	New event SUSPECT
				No	Same event
Select:	Leptospira sp : ACnt : Pt : Tiss : Ord : IF				
Laboratory Report	EIA	Serum	Positive	Yes	New event SUSPECT
				No	Same event
Select:	Leptospira sp Ab. ACnc : Pt : Ser : Ord : EIA				
Select (IgM-specific):	Leptospira sp Ab.IgM : ACnc : Pt : Ser : Ord : EIA				
Select (IgG-specific):	Leptospira sp Ab.IgG : ACnc : Pt : Ser : Ord : EIA				
Laboratory Report	PCR	Clinical specimen	Leptospira species	Yes	New event SUSPECT
				No	Same event
Select:	Leptospira sp DNA : ACnc : Pt : Flu : Ord : Probe.Amp.Tar				
Laboratory Report	Rapid latex agglutination (LA) Indirect Hemagglutination Assay (IHA)	Serum	Positive	Yes	New event SUSPECT
				No	Same event
Select:	Leptospira sp Ab: Titr:Pt:Ser:Qn:Aggl				
Laboratory Report	Microscopic agglutination test (MAT)	Serum	Positive	Yes	New event SUSPECT
				No	Same event
Select:	Leptospira sp Ab:Titr:Pt:Ser:Qn:Microscopic Aggl				