Local ID Number: \_\_\_\_\_

California Department of Public Health Center for Infectious Diseases Division of Communicable Disease Control Infectious Diseases Branch Surveillance and Statistics Section MS 7306, P.O. Box 997377 Sacramento, CA 95899-7377

# LYME DISEASE CASE REPORT

PATIENT INFORMATION										
Last Name	First Name				e Name	Ī	Suffix	Primary Langu  ☐ English	age	
Social Security Number (9 digits	;)		DOB (mm/dd/	<sup>(</sup> /уууу)		Age	☐ Years ☐ Months ☐ Days	☐ Spanish ☐ Other:  Ethnicity (check one)		
Address Number & Street – Res	sidence			Aparti	ment / L	Jnit Numl	ber	☐ Hispanic/La ☐ Non-Hispan	tino	10
City / Town				State		Zip (	Code	☐ Unknown  Race(s)		
Census Tract	County of Res	idenc	е	Count	try of Re	esidence		The response	to this item	descriptions on page 7) should be based on the elf-reporting. Therefore,
Country of Birth			ot U.S. Born - [	Date of				patients should patients should more than one	d be offered	I the option of selecting
Home Telephone	Cellula	Phon	ne / Pager		Work /	School 7	Telephone	☐ American In		
E-mail Address	1		Other Electron			ormation		□ Asian ( <i>cnec</i> □ Asian Ind	dian .	ply, see list on page 7) □ Korean □ Laotian
Work / School Location  Gender			Work / School	Contac	ct			□ Cambod □ Chinese		□ Malaysian □ Pakistani
☐ Female ☐ Trans female / trans male / tran			nderqueer or no	on-bina	•	Unknow	n d to answer	☐ Filipino ☐ Hmong ☐ Indonesi	an	□ Sri Lankan □ Taiwanese □ Thai
Pregnant? □ Yes □ No □ Unknown			If Yes, Est. De	elivery L	Date (m	m/dd/yyy	y)	☐ Japanes ☐ Other:	е	☐ Vietnamese
Medical Record Number			Patient's Pare	nt/Gua	rdian Na	ame		☐ Black or Afri		
Occupation Setting (see list on p	page 8)		Other Describe	e/Spec	ify				at apply, se	er Pacific Islander ee list on page 7) □ Samoan
Occupation (see list on page 8)			Other Describe	e/Spec	ify			□ Fijian □ Guaman		□ Tongan
								☐ Other: _ ☐ White		
								□ Other:		
								□ Unknown		
ADDITIONAL PATIENT DE										
Sex Assigned at Birth  ☐ Female ☐ Unknown ☐ Male ☐ Declined to ans		erosex , lesbi	ntation kual or straight ian, or same-ge		oving		tioning, unsure tation not listed	e, or patient does	n't know	☐ Declined to answer ☐ Unknown
CLINICAL INFORMATION										
Physician Name - Last Name						First Nar	me		Telephone	Number

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LYME	DISEASE	CASE	REPORT	

First three letters of		
patient's last name:		

SIGNS AND SYMPTO	OMS								
Symptomatic?  ☐ Yes ☐ No ☐ Unknow		nset Dat	e (mm/dd/)	yyy)	Date First Soug	nht Medical Ca	are (mm/dd/yyyy	y) Durati	on of Acute Symptoms (days)
Signs and Symptoms	Y	es N	lo Unk	If Yes, Specify a	s Noted				
Erythema migrans (EM)				Onset date (mm	n/dd/yyyy)	Location on	body	EM size at	examination, diameter (cm)
Brief recurrent attacks of swelling in one or a few jo				Onset date (mm	n/dd/yyyy)	Joint(s) affect	cted		
Chronic progressive arth not preceded by brief atta				Onset date (mm	n/dd/yyyy)				
Facial (VII) palsy or other cranial neuropathy				Onset date (mm	/dd/yyyy)				
Radiculoneuropathy				Onset date (mm	/dd/yyyy)				
Paresthesias, dysesthesi	as			Onset date (mm	/dd/yyyy)				
Lymphocytic meningitis				Onset date (mm	/dd/yyyy)				
Encephalomyelitis				Onset date (mm	/dd/yyyy)				
Second or third degree atrioventricular block				Onset date (mm	/dd/yyyy)				
Myocarditis				Onset date (mm/dd/yyyy)					
Other signs / symptoms	(specify)			Onset date (mm	/dd/yyyy)				
PAST MEDICAL HIST	TORY								
Prior Lyme disease diagr  ☐ Yes ☐ No ☐ Unknown				Specify diagnos	is date(s) (mm/do	d/yyyy)			
PAST MEDICAL HIST	TORY - C	THER		•					
Specify									
HOSPITALIZATION									
Did patient visit the emer	•	om for illi	ness?						
Was patient hospitalized  ☐ Yes ☐ No ☐ Unkn			If Y	es, how many tota	al hospital nights?	ar		unit (ICÚ) c	alization, did the patient stay in or a critical care unit (CCU)?
If there were any ER or h	nospital st	ays relat	ed to this i	llness, specify deta	ails in the Hospita	alization – Dei	tails section bel	ow.	
HOSPITALIZATION -	DETAIL	S							
Hospital Name 1	Street A	ddress					Admit Date (m	nm/dd/yyyy)	
	City						Discharge / Tr	ransfer Date	e (mm/dd/yyyy)
	State	Zip Cod	de Te	lephone Number			Medical Reco	rd Number	Discharge Diagnosis
Hospital Name 2	Street A	ddress					Admit Date (m	nm/dd/yyyy)	
	City						Discharge / Tr	ransfer Date	(mm/dd/yyyy)
	State	Zip Cod	de Te	lephone Number			Medical Reco	rd Number	Discharge Diagnosis

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LYME DIS	SEASE	CASE F	REPORT	Γ
First three letters of patient's last name:				

TREATMENT / MANAGEN	<i>MENT</i>							
Received treatment? □ Yes □ No □ Unknown	If Yes, s	pecify the treatments	below.					
TREATMENT / MANAGE	MENT D	ETAILS						
Treatment Type 1  ☐ Antibiotic ☐ Other	If Antib	iotic, specify route	Treatment Name	е	Date Started (mm	n/dd/yyyy)	Date Ended (mm/dd	<i>'yyyy)</i>
Treatment Type 2  ☐ Antibiotic ☐ Other	If Antib	iotic, specify route	Treatment Name	е	Date Started (mm	n/dd/yyyy)	Date Ended (mm/dd	<i>'yyyy)</i>
OUTCOME								
Outcome?		If Survived,				Date of Dea	nth (mm/dd/yyyy)	
□ Survived □ Died □ Unkn		Survived as of	reports must h	•	n/dd/yyyy)			
LABORATORY RESULTS	SUMM						T=	
Specimen Type		Collection Date (mm	/dd/yyyy)	Laboratory Name			Telephone Number	
Type of Test	Spe	cify Test Results as N	loted					
EIA / IFA First Tier (standard two- tier or modified two-tier)  □ EIA □ IFA □ Not done		ibody gG □ lgM □ Tota other:	al □ Unspecifie —	Specify titer o	or OD value	Interpreta  □ Positiv □ Unkno	ve □ Negative □	Equivocal
EIA second tier (modified two-tie		body gG □ lgM □ Tota other:	al 🗆 Unspecifie	Specify titer o	or OD value	Interpreta  □ Positiv □ Unkno	/e □ Negative □	Equivocal
IgM Western Immunoblot  □ Done □ Not done		ecify Bands Present	11			Interpreta  □ Positiv □ Unkno	/e □ Negative □	Equivocal
IgG Western Immunoblot  □ Done □ Not done		ecify Bands Present 8-20 □ 21-24 □ 2 8 □ 93	8 🗆 30 🗆 35	□39 □41 □	<b>□</b> 45 □ 58 □ 66	Interpreta □ Positiv □ Unkno	/e □ Negative □	Equivocal
B. burgdorferi, B. mayonii specific NAAT assay  □ Done □ Not done		pretation esitive □ Negative	e □ Equivocal	□ Unknown [	□ Pending	•		
IHC on biopsy tissue	Spe	cify tissue		Interpretation				
☐ Done ☐ Not done	Sne	ecify Test(s)		☐ Positive ☐ Result(s)	Negative □ Equ	uivocal □ l	Jnknown ☐ Pending	J
Other test				r (count(c)				
EPIDEMIOLOGIC INFORM	MATION							
		INCUBATIO	N PERIOD: 30 D	AYS PRIOR TO II	LLNESS ONSET			
EXPOSURES/RISK FACT	ORS							
DID THE PATIENT PARTICIP	PATE IN	ANY OUTDOOR ACT	TIVITIES IN WOO	DDED, BRUSHY, (	OR GRASSYAREA	S DURING	THE INCUBATION PE	RIOD?
Outdoor Activity 1		Describe Activity						
<ul><li>☐ Hiking, camping, picnicking</li><li>☐ Other recreational</li><li>☐ Occupational / non-recreational</li></ul>		Location				Date (	mm/dd/yyyy)	
Outdoor Activity 2		Describe Activity						
<ul><li>☐ Hiking, camping, picnicking</li><li>☐ Other recreational</li><li>☐ Occupational / non-recreation</li></ul>		Location				Date (	mm/dd/yyyy)	
Outdoor Activity 3		Describe Activity						
<ul><li>☐ Hiking, camping, picnicking</li><li>☐ Other recreational</li><li>☐ Occupational / non-recreational</li></ul>		Location				Date (	mm/dd/yyyy)	

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LYME DIS	LYME DISEASE CASE REPORT										
First three letters of											

		pa	atient's last name:			
EXPOSURES/RISK FACTORS -	TICK BITE					
Tick bite during incubation period?  ☐ Yes ☐ No ☐ Unknown	If Yes, describe		Date Noticed (mr	n/dd/yyyy)	)	
Where (county, habitat)?	Where (anatomic)?		Approximate Dui	ation of A	ttachm	nent
NOTES / REMARKS						
REPORTING AGENCY			,			
Investigator Name	Local Health Jurisdiction	Telephone Number	Date (mm/dd/yyyy)			
Date First Reported to Public Health (	mm/dd/yyyy)	First Reported by  □ Clinician □ Laboratory □ Other	(specify):			
EPIDEMIOLOGICAL LINKAGE		,				
Epi-linked to known case?  ☐ Yes ☐ No ☐ Unknown	Contact Name / Case Number					
DISEASE CASE CLASSIFICATION	ON					
Case Classification (see case definition ☐ Confirmed ☐ Probable ☐ Sus						
STATE USE ONLY						
State Case Classification  ☐ Confirmed ☐ Probable ☐ Sus	pected □ Not a case □ Need ad	ditional information				

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First three letters of										
patient's last name:										

I VME DISEASE CASE REPORT

# **CASE DEFINITION**

# LYME DISEASE (2022)

#### **CLINICAL CRITERIA**

An illness characterized by one of the following early or late-stage manifestations, as reported by a healthcare provider, and in the absence of another known etiology:

• Erythema migrans (EM) rash. For purposes of surveillance, EM is defined as a skin lesion (observed by a healthcare provider) that typically begins as a red macule or papule and expands over a period of days to weeks to form a large round lesion, often with partial central clearing. A single primary lesion must reach a size of ≥5 cm in diameter.

Note: Secondary lesions also may occur.

Musculoskeletal system. Recurrent, brief attacks (weeks or months) of objective joint swelling in one or a few joints.

Note: Objective joint swelling may sometimes be followed by chronic arthritis in one or a few joints.

- Nervous system. Any of the following signs that cannot be explained by any other etiology, alone or in combination: lymphocytic meningitis; cranial neuritis, particularly facial palsy (unilateral or bilateral); radiculoneuropathy; or, rarely, encephalomyelitis.
- Cardiovascular system. Acute onset of high-grade (2nd-degree or 3rd-degree) atrioventricular conduction defects that resolve in days to weeks.

Note: Atrioventricular conduction defects may sometimes be associated with myocarditis.

#### LABORATORY CRITERIA

For the purposes of surveillance, laboratory evidence includes:

#### Confirmatory laboratory evidence:

- 1. Isolation of B. burgdorferi sensu stricto or B. mayonii in culture, OR
- 2. Detection of *B. burgdorferi* sensu stricto or *B. mayonii* in a clinical specimen by a *B. burgdorferi* group-specific nucleic acid amplification test (NAAT) assay, **OR**
- 3. Detection of B. burgdorferi group-specific antigens by immunohistochemical assay on biopsy or autopsy tissues, OR
- Positive serologic tests<sup>1</sup> in a two-tier or equivalent format, including:
  - a. Standard two-tier test (STTT): a positive or equivocal first-tier screening assay, often an enzyme immunoassay [EIA] or immunofluorescence assay [IFA] for immunoglobulin M (IgM), immunoglobulin G (IgG), or a combination of immunoglobulins, followed by a concordant positive IgM<sup>2</sup> or IgG<sup>3</sup> immunoblot interpreted according to established criteria, **OR**
  - b. Modified two-tier test (MTTT): positive or equivocal first-tier screen, followed by a different, sequential positive or equivocal EIA in lieu of an immunoblot as a second-tier test<sup>4</sup>.

#### Presumptive laboratory evidence:

1. Positive IgG immunoblot<sup>5</sup>, interpreted according to established criteria<sup>3</sup>, without positive or equivocal first-tier screening assay.

Note: The categorical labels used here to stratify laboratory evidence are intended to support the standardization of case classifications for public health surveillance. The categorical labels should not be used to interpret the utility or validity of any laboratory test methodology.

# CRITERIA TO DISTINGUISH A NEW CASE FROM AN EXISTING CASE

A new case is one that has not been reported within the same calendar year (January through December).\*\*

\*\* Using calendar year allows case counting which more closely corresponds with the seasonality of Lyme disease than using a number of months between case reports.

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LYME DIS	SEASE	CASE F	REPORT	•

First three letters of		
patient's last name:		

#### **CASE DEFINITION (continued)**

# **CASE CLASSIFICATION**

#### Suspect

High-incidence jurisdictions (as defined in Case Classification Comments below)

• A case that meets presumptive laboratory evidence.

Low-incidence jurisdictions (as defined in Case Classification Comments below)

- A case that meets confirmatory or presumptive laboratory criteria, but no clinical information is available, **OR**
- A case of erythema migrans rash with no laboratory evidence of infection.

#### **Probable**

High-incidence jurisdictions (as defined in Case Classification Comments below)

A case that meets confirmatory laboratory evidence.

Low-incidence jurisdictions (as defined in Case Classification Comments below)

• A clinically compatible case that meets presumptive laboratory criteria.

# Confirmed

High-incidence jurisdictions (as defined in Case Classification Comments below)

N/A

Low-incidence jurisdictions (as defined in Case Classification Comments below)

A clinically compatible case that meets confirmatory laboratory criteria.

Note: This CSTE case definition is intended solely for public health surveillance purposes and does not recommend diagnostic criteria for clinical partners to utilize in diagnosing patients with potential Lyme Disease.

# **CASE CLASSIFICATION COMMENTS**

High-incidence jurisdictions are those that have had an average Lyme disease incidence of ≥10 confirmed cases/100,000 population for a period of three consecutive years. At the time of CSTE position statement 21-ID-05 (spring 2021), those jurisdictions were: Connecticut, Delaware, Maine, Maryland, Massachusetts, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia, Wisconsin, and the District of Columbia (http://www.cdc.gov/lyme/stats/tables.html).

Low-incidence jurisdictions are those that have not had an average Lyme disease incidence of ≥10 confirmed cases/100,000 population for a period of three consecutive years. Once ≥10 confirmed cases/100,000 population have been observed in a low-incidence jurisdiction for a period of three consecutive years, they become a high-incidence jurisdiction for the purposes of surveillance and should permanently switch reporting criteria.

For determining incidence for case classification and reporting purposes, calculations should be made at the state or territory level. Case classification for reporting should not be differentially applied at the subdivision level.

A clinically compatible case is defined as a case that meets the clinical criteria defined above.

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First three letters of		
patient's last name:		

RACE DESCRIPTIONS					
Race	Description				
American Indian or Alaska Native	Patient has origins in <b>any</b> of the original peoples of North and South America (including Central America).		ncluding Central America).		
Asian	Patient has origins in <b>any</b> of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent (e.g., including Bangladesh, Cambodia, China, India, Indonesia, Japan, Korea, Malaysia, Nepal, Pakistan, the Philippine Islands, Thailand, and Vietnam).				
Black or African American	Patient has origins in <b>any</b> of the black racial groups of Africa.				
Native Hawaiian or Other Pacific Islander	Patient has origins in <b>any</b> of the original peoples of Hawaii, Guam, American Samoa, or other Pacific Islands.				
White	Patient has origins in <b>any</b> of the original peoples of Europe, the Middle East, or North Africa.				
ASIAN GROUPS					
Bangladeshi     Filipino	Japanese	Maldivian	Sri Lankan		
• Bhutanese • Hmong	<ul> <li>Korean</li> </ul>	<ul> <li>Nepalese</li> </ul>	<ul> <li>Taiwanese</li> </ul>		
• Burmese • Indian	<ul> <li>Laotian</li> </ul>	<ul> <li>Okinawan</li> </ul>	• Thai		
• Cambodian • Indonesi	an • Madagascar	<ul> <li>Pakistani</li> </ul>	<ul> <li>Vietnamese</li> </ul>		
Chinese     Iwo Jima	n • Malaysian	<ul> <li>Singaporean</li> </ul>			
NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER GROUPS					
• Carolinian • Kiribati	Micronesian	<ul> <li>Pohnpeian</li> </ul>	Tahitian		
• Chamorro • Kosraea	Native Hawaiian	<ul> <li>Polynesian</li> </ul>	<ul> <li>Tokelauan</li> </ul>		
• Chuukese • Mariana	slander • New Hebrides	<ul> <li>Saipanese</li> </ul>	<ul> <li>Tongan</li> </ul>		
• Fijian • Marshall	ese • Palauan	<ul> <li>Samoan</li> </ul>	<ul> <li>Yapese</li> </ul>		
Guamanian     Melanes	an • Papua New Guinean	Solomon Islander			

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First three letters of		
patient's last name:		

# **OCCUPATION SETTING**

- · Childcare/Preschool
- · Correctional Facility
- · Drug Treatment Center
- · Food Service
- · Health Care Acute Care Facility
- Health Care Long Term Care Facility
- · Health Care Other

- · Homeless Shelter
- Laboratory
- · Military Facility
- · Other Residential Facility
- · Place of Worship
- School
- Other

# **OCCUPATION**

- Agriculture farmworker or laborer (crop, nursery, or greenhouse)
- · Agriculture field worker
- · Agriculture migratory/seasonal worker
- · Agriculture other/unknown
- · Animal animal control worker
- · Animal farm worker or laborer (farm or ranch animals)
- · Animal veterinarian or other animal health practitioner
- · Animal other/unknown
- · Clerical, office, or sales worker
- · Correctional facility employee
- · Correctional facility inmate
- · Craftsman, foreman, or operative
- Daycare or child care attendee
- Daycare or child care worker
- · Dentist or other dental health worker
- · Drug dealer
- Fire fighting or prevention worker
- · Flight attendant
- · Food service cook or food preparation worker
- · Food service host or hostess
- · Food service waiter or waitress
- Food service other/unknown
- Homemaker
- Laboratory technologist or technician
- · Laborer private household or unskilled worker
- · Manager, official, or proprietor
- · Manicurist or pedicurist
- Medical emergency medical technician or paramedic
- Medical health care worker

- · Medical medical assistant
- · Medical pharmacist
- · Medical physician assistant or nurse practitioner
- · Medical physician or surgeon
- · Medical registered nurse
- · Medical other/unknown
- · Military officer
- · Military recruit or trainee
- · Protective service police officer
- · Protective service other
- · Professional, technical, or related profession
- Retired
- · Sex worker
- · Student preschool or kindergarten
- · Student elementary or middle school
- · Student high (secondary) school
- · Student college or university
- Student other/unknown
- Teacher/employee preschool or kindergarten
- Teacher/employee elementary or middle school
- Teacher/employee high (secondary) school
- Teacher/instructor/employee college or university
- · Teacher/instructor/employee other/unknown
- Unemployed seeking employment
- · Unemployed not seeking employment
- Unemployed other/unknown
- Other
- Refused
- Unknown

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