State of California—Health and Human Services Agency

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

Local ID Number				
(Please use the same ID Number on the preliminary and final reports to allow linkage to the same case.)				
Report Status (check one)				
□ Preliminary □ Final				

LYME DISEASE CASE REPORT

PATIENT INFORMATION	N												
Last Name	First Name			Middle Name Suffix			Primary Language						
										□ English			
Social Security Number (9 digit	ts)			DOB (mm/dd	l/yyyy)		Age		☐ Years	☐ Spanish			
									□ Months □ Days	☐ Other:			
Address November 9 Otrest De	-!-!				A		I Imit NI	6		Ethnicity (che	,		
Address Number & Street - Res	siaence	9			Apan	menv	Unit Nur	nbe	ſ	☐ Hispanic/Latino☐ Non-Hispanic/Non-Latino			
										□ Unk	iic/Non-Lau	110	
City/Town					State		Z	ip C	ode	Race*			
											apply, race	descriptions on	page 7)
Census Tract	Coun	ty of Resid	dence	e	Coun	try of I	Residen	ce		☐ African-Ame	erican/Black		,
										☐ American Ir	ndian or Alas	ska Native	
Country of Birth			If no	ot U.S. Born - L	Date of	Arriva	al in U.S	. (m	m/dd/yyyy)	☐ Asian (check all that apply)			
										☐ Asian In		□ Japanese	
Home Telephone		Cellular	Phon	one/Pager Work/Scho			k/School	Tel	elephone □ Cambo		lian	□ Korean	
										☐ Chinese		□ Laotian	
E-mail Address		L		Other Electronic Contact Information						☐ Filipino		□ Thai	
								☐ Hmong		☐ Vietnamese)		
Work/School Location				Work/School Contact						☐ Other:_			
World Gorioor Education				Work School Contact						□ Pacific Islander (check all that apply)			
Candar										☐ Native Hawaiian ☐ Samoan			
Gender □ Male □ Female □ O	ther:									☐ Guamanian			
									☐ Other:				
Pregnant?				If Yes, Est. Delivery Date (mm/dd/yyyy)				□ White					
☐ Yes ☐ No ☐ Unk								□ Other:					
Medical Record Number				Patient's Parent/Guardian Name				□Unk					
								*Commont: oo	lf identity o	r calf raparting			
Occupation Setting (see list on page 7)			Other Describe/Specify				*Comment: self-identity or self-reporting The response to this item should be based on the						
							patient's self-i	dentity or se	elf-reporting. The	erefore,			
Occupation (see list on page 7)			Other Describe/Specify				patients shoul more than one		d the option of se	electing			
										more than one	, racial acci	griation.	
CLINICAL INFORMATIO	N									4			
Physician Name - Last Name							First N	lam	е		Telephone	Number	

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DISEASE	CASE	PEDORT

First three letters of		
oatient's last name:		

SIGNS AND SYMPTO	омѕ										
Symptomatic? ☐ Yes ☐ No ☐ Unk	Onset	Date (/mm/dd/	уууу)			Date First Sought Me	dical Care (mm/dd/yyyy)	Dui	ration of Acute Symptoms (days)
Signs and Symptoms		Yes	No	Unk	If Yes, S	Spe	cify as Noted				
Erythema migrans (EM)					Onset d	late	(mm/dd/yyyy)	Location or	n body	EM si	ze at examination, diameter (cm)
Brief recurrent attacks o swelling in one or a few					Onset d	late	(mm/dd/yyyy)	Joint(s) aff	ected		
Chronic progressive arth not preceded by brief at					Onset d	late	(mm/dd/yyyy)				
Facial (VII) palsy or othe cranial neuropathy	er				Onset d	late	(mm/dd/yyyy)				
Radiculoneuropathy					Onset d	late	(mm/dd/yyyy)				
Paresthesias, dysesthes	sias				Onset d	Inset date (mm/dd/yyyy)					
Lymphocytic meningitis					Onset d	nset date (mm/dd/yyyy)					
Encephalomyelitis					Onset d	Onset date (mm/dd/yyyy)					
Second or third degree atrioventricular block					Onset d	late	(mm/dd/yyyy)				
Other signs / symptoms (specify) Onset date (mm/dd/yyyy)											
PAST MEDICAL HIS	TORY										
Prior Lyme disease diag ☐ Yes ☐ No ☐ Unk	ınosis?				Specify	dia	gnosis date(s) (mm/do	l/yyyy)			
PAST MEDICAL HIS	TORY -	ОТН	ER								
Specify											
HOSPITALIZATION											
Did patient visit emerger ☐ Yes ☐ No ☐ Unk	ncy room	for illr	ness?		Was patient hospitalized? ☐ Yes ☐ No ☐ Unk				If Yes, how many total hospital nights?		
If there were any ER or	hospital s	stays r	elated to	this il	lness, spe	ecif	y details below.				
HOSPITALIZATION -	DETAIL	LS									
Hospital Name 1 Street Address								Admit Da	Admit Date (mm/dd/yyyy)		
	City							Discharge / Transfer Date (mm/dd/yyyy)			dd/yyyy)
	State	Zip	Code	Tei	lephone N	ephone Number			Medical Record Number Discharge Diagnosis		
Hospital Name 2	Street A	Addres	s	•				Admit Date (mm/dd/yyyy)			
	City			1.1				Discharg	ge / Transfer Date	(mm/c	dd/yyyy)
	State	Zip	Code	Tele	ephone N	lum	ber	Medical	Record Number		Discharge Diagnosis
								•			•

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EXPOSURES/RISK FACTORS - TICK BITE

If Yes, describe

Where (anatomic)?

Tick bite during incubation period?

☐ Yes ☐ No ☐ Unk

Where (county, habitat)?

DISEASE	CVCE	

						atient's last r			
TREATMENT / MANAGE	WENT								
Received treatment? ☐ Yes ☐ No ☐ Unk	If Yes, specify the treatments below.								
TREATMENT / MANAGE	MENT D	ETAILS							
Treatment Type 1 ☐ Antibiotic ☐ Other	If Antib	iotic, specify route	Treatment Nam	ne	Date Started (mn	n/dd/yyyy)	/yyyy) Date Ended (mm/dd/yyyy)		
Treatment Type 2 ☐ Antibiotic ☐ Other	If Antib	iotic, specify route	Treatment Nam	e	Date Started (mn	n/dd/yyyy)	Date Ended (mm/dd/yyy	'y)	
LABORATORY INFOR	MATIO	N (Copies of labora	tory reports mu	ust be included	with case history.)			
LABORATORY RESULTS	SUMM	ARY							
Specimen Type		Collection Date (mm.	/dd/yyyy)	Laboratory Nan	пе		Telephone Number		
Type of Test	Specify	Test Results as Note	d						
EIA / IFA □ Not done	Antiboo	□ IgM □ Total	□ Unspecified	Specify titre or	OD value	Interpretation ☐ Positive ☐ Unknown	☐ Negative ☐ Equiv	/ocal	
IgG Western Immunoblot □ Done □ Not done	Specify ☐ 18-2 ☐ 88	Pands Present 0 □ 21-24 □ 28 □ 93	□30 □35 □	39 🗆 41 🗀 4	95 □ 58 □ 66	Interpretation ☐ Positive ☐ Unknown	☐ Negative ☐ Equiv	/ocal	
IgM Western Immunoblot □ Done □ Not done	I =				☐ Negative ☐ Equiv	/ocal			
Other test	Specify	Test(s)		Result(s)					
EPIDEMIOLOGIC INFO	RMAT	ION		l					
INCUBATION PERIOD: 30 DAYS PRIOR TO ILLNESS ONSET									
EXPOSURES/RISK FACTORS									
DID THE PATIENT PARTICIPATE IN ANY OUTDOOR ACTIVITIES IN WOODED, BRUSHY, OR GRASSY AREAS DURING THE INCUBATION PERIOD?									
Outdoor Activity 1		Describe Activity							
☐ Hiking, camping, picnicking☐ Other recreational☐ Occupational / non-recreati	Location		Date (Date (mm/dd/yyyy)					
Outdoor Activity 2 Describe Activity									
☐ Hiking, camping, picnicking☐ Other recreational☐ Occupational / non-recreati		Location	Date (mm/dd/yyyy)						
Outdoor Activity 3		Describe Activity							
☐ Hiking, camping, picnicking ☐ Other recreational ☐ Occupational / non-recreational		Location				Date (mm/dd/yyyy)		

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Date Noticed (mm/dd/yyyy)

Approximate Duration of Attachment

☐ Confirmed ☐ Probable

☐ Suspected

		0 4 0 E B E B O B E	
I YME	DISEASE	CASE REPORT	

First three letters of

		pa	ient's last name:			
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 ☐ Unk	Contact Name / Case Number					
DISEASE CASE CLASSIFICATION	ON					
Case Classification (see case definition						
□ Confirmed □ Probable □ Susp	pecied					
STATE USE ONLY						
State Case Classification						

 \square Not a case \square Need additional information

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CASE DEFINITION

LYME DISEASE (2017)

CLINICAL DESCRIPTION

A systemic, tick-borne disease with protean manifestations, including dermatologic, rheumatologic, neurologic, and cardiac abnormalities. The most common clinical marker for the disease is erythema migrans (EM), the initial skin lesion that occurs in 60%-80% of patients.

For purposes of surveillance, EM is defined as a skin lesion 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 greater than or equal to 5 cm in size across its largest diameter. Secondary lesions also may occur. Annular erythematous lesions occurring within several hours of a tick bite represent hypersensitivity reactions and do not qualify as EM. For most patients, the expanding EM lesion is accompanied by other acute symptoms, particularly fatigue, fever, headache, mildly stiff neck, arthralgia, or myalgia. These symptoms are typically intermittent. The diagnosis of EM must be made by a physician. Laboratory confirmation is recommended for persons with no known exposure.

For purposes of surveillance, late manifestations include any of the following when an alternate explanation is not found:

- <u>Musculoskeletal system</u>: Recurrent, brief attacks (weeks or months) of objective joint swelling in one or a few joints, sometimes followed by chronic
 arthritis in one or a few joints. Manifestations not considered as criteria for diagnosis include chronic progressive arthritis not preceded by brief attacks
 and chronic symmetrical polyarthritis. Additionally, arthralgia, myalgia, or fibromyalgia syndromes alone are not criteria for musculoskeletal involvement.
- 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 (may be bilateral); radiculoneuropathy; or, rarely, encephalomyelitis. Headache, fatigue, paresthesia, or mildly stiff neck alone, are not criteria for neurologic involvement.
- <u>Cardiovascular system</u>: Acute onset of high-grade (2nd-degree or 3rd-degree) atrioventricular conduction defects that resolve in days to weeks and are sometimes associated with myocarditis. Palpitations, bradycardia, bundle branch block, or myocarditis alone are not criteria for cardiovascular involvement.

LABORATORY CRITERIA FOR DIAGNOSIS

For the purposes of surveillance, laboratory evidence includes:

- A positive culture for B. burgdorferi, OR
- A positive two-tier test. (This is defined as a positive or equivocal enzyme immunoassay (EIA) or immunofluorescent assay (IFA) followed by a positive
 Immunoglobulin M¹ (IgM) or Immunoglobulin G² (IgG) western immunoblot (WB) for Lyme disease), OR
- A positive single-tier IgG2 WB test for Lyme disease3.
 - ¹ IgM WB is considered positive when at least two of the following three bands are present: 24 kilodalton (kDa) outer surface protein C (OspC)*, 39 kDa basic membrane protein A (BmpA), and 41 kDa (Fla). Disregard IgM results for specimens collected >30 days after symptom onset.
 - ² IgG WB is considered positive when at least five of the following 10 bands are present: 18 kDa, 24 kDa (OspC)*, 28 kDa, 30 kDa, 39 kDa (BmpA), 41 kDa flagellin (Fla), 45 kDa, 58 kDa (not GroEL), 66 kDa, and 93 kDa.
 - ³While a single IgG WB is adequate for surveillance purposes, a two-tier test is still recommended for patient diagnosis.
 - *Depending upon the assay, OspC could be indicated by a band of 21, 22, 23, 24 or 25 kDa.

CRITERIA TO DISTINGUISH A NEW CASE FROM AN EXISTING CASE

Case not previously reported to public health authorities.

EXPOSURE

Exposure is defined as having been (less than or equal to 30 days before onset of EM) in wooded, brushy, or grassy areas (i.e., potential tick habitats) of Lyme disease vectors. Since infected ticks are not uniformly distributed, a detailed travel history to verify whether exposure occurred in a high or low incidence state is needed. An exposure in a high-incidence state is defined as exposure in a state with an average Lyme disease incidence of at least 10 confirmed cases/100,000 for the previous three reporting years. A low-incidence state is defined as a state with a disease incidence of <10 confirmed cases/100,000. (see https://www.cdc.gov/lyme/stats/tables.html). A history of tick bite is not required.

(continued on page 6)

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CASE DEFINITION (continued)

CASE CLASSIFICATION

Suspected

- A case of EM where there is no known exposure (as defined above) and no laboratory evidence of infection (as defined above), OR
- A case with evidence of infection but no clinical information available (e.g., a laboratory report).

Probable

Any other case of physician-diagnosed Lyme disease that has laboratory evidence of infection (as defined above).

Confirmed

- A case of EM with exposure in a high incidence state (as defined above), OR
- A case of EM with laboratory evidence of infection and a known exposure in a low incidence state, OR
- Any case with at least one late manifestation that has laboratory evidence of infection.

CASE CLASSIFICATION COMMENTS

Lyme disease reports will not be considered cases if the medical provider specifically states this is not a case of Lyme disease, or the only symptom listed is "tick bite" or "insect bite."

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RACE DESCRIPTIONS						
Race	Description					
American Indian or Alaska Native	Patient has origins in any of the original peoples of North and South America (including Central America).					
Asian	Patient has origins in any 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 any of the black racial groups of Africa.					
Native Hawaiian or Other Pacific Islander	Patient has origins in any of the original peoples of Hawaii, Guam, American Samoa, or other Pacific Islands.					
White	Patient has origins in any of the original peoples of Europe, the Middle East, or North Africa.					

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

- · Adult film actor/actress
- 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 server
- 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 nurse
- · Medical other/unknown
- · Military
- · Police officer
- · Professional, technical, or related profession
- Retired
- · Sex worker
- · Stay at home parent/guardian
- Student preschool or kindergarten
- · Student elementary or middle school
- · Student high school
- Student college or university
- · Student other/unknown
- Teacher/employee preschool or kindergarten
- Teacher/employee elementary or middle school
- · Teacher/employee high school
- Teacher/instructor/employee college or university
- Teacher/instructor/employee other/unknown
- Unemployed seeking employment
- · Unemployed not seeking employment
- · Unemployed other/unknown
- Volunteer
- Other
- Refused
- Unknown

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