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

# MALARIA CASE REPORT

PATIENT INFORMATION									
Last Name	First Name		Middle N	Vame	ame Suffix		<i>Primary Lan</i> □ English	guage	
Social Security Number (9 digits	:)	DOB (mm/de	d/yyyy)	Age	е	☐ Years ☐ Months	☐ Spanish ☐ Other:		
						□ Days		nook onol	
Address Number & Street – Res	sidence		Apartme	ent / Un	it Numb	per	Ethnicity (ch ☐ Hispanic/	,	
			7.100.11110					ւaւուն anic/Non-Lat	tino
City / Town			State		Zip C	Code	☐ Unknown		iiio
							Race(s)		
Census Tract	County of Res	idence	Country	of Res	esidence (check all that apply, race description			, , ,	
Country of Birth		If not U.S. Born -	Date of Ar	rival in	al in U.S. (mm/dd/yyyy)		The response to this item should be based on the patient's self-identity or self-reporting. Therefore, patients should be offered the option of selecting more than one racial designation.		
Home Telephone	Cellular	Phone / Pager	И	/ork / S	Chool T	elephone		Indian or Ala	
							☐ Asian <i>(ch</i>	eck all that a	pply, see list on page 6)
E-mail Address		Other Electro	nic Contac	t Inforn	mation		☐ Asian	Indian	☐ Korean
							□ Bangl	adeshi	☐ Laotian
Work / School Location		Work / School	ol Contact				□ Camb	odian	☐ Malaysian
Condon							☐ Chine	se	□ Pakistani
Gender  ☐ Female ☐ Trans female / tra	anawaman [	☐ Genderqueer or i	nan hinamı		Jnknowi	_	☐ Filipin	0	☐ Sri Lankan
☐ Male ☐ Trans male / trans		☐ Identity not listed	•			l to answer	☐ Hmon	O	☐ Taiwanese
Pregnant?	isiliali L	If Yes, Est. D					☐ Indon		□ Thai
☐ Yes ☐ No ☐ Unknown		11 103, E31. D	civery Dat	ic (iiiiii	/uu/yyy	<b>y</b> )	☐ Japan		☐ Vietnamese
Medical Record Number		Patient's Pare	ent/Guardi:	an Nan	☐ Other:				
Wedida Record Particol		r allone or an	on o o o o o	annvan	☐ Black or African-American				ican
Occupation Setting (see list on p	page 7)	Other Describ	be/Specify		□ Native Hawaiian or Other Pacific Islander				
companies county							(check all that apply, see list on page 6)		
Occupation (see list on page 7)		Other Describ	ha/Cnaaifi				□ Native Hawaiian □ Samoan □ Fijian □ Tongan		
Occupation (see list on page 7)		Other Describ	oe/Specify				☐ Guamanian		
								<u> </u>	
							□ White		
							☐ Unknown		
ADDITIONAL PATIENT DE	MOGRAPHIC	 S							
	<u> </u>								
Sex Assigned at Birth  ☐ Female ☐ Unknown		Orientation		_	7 04			'4 les	□ Dealined to answer
☐ Female ☐ Unknown ☐ Male ☐ Declined to ans		rosexual or straight lesbian, or same-g				ioning, unsure ation not listed	•	esn i know	<ul><li>□ Declined to answer</li><li>□ Unknown</li></ul>
I wate Declined to ans	□ Bise	_	gerider lovii	ilg L	oneni	ation not listed	•		- OTKHOWII
CLINICAL INFORMATION									
Physician Name - Last Name				Fir	First Name Telephone Number			Number	

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MA	LARIA	CASE F	REPORT
First three letters of			

								i	Jalieni Shasi n	ame.	
SIGNS AND SYMPTO	OMS										
Symptomatic?  ☐ Yes ☐ No ☐ Unknow	'n		Onse	set Date (mm/dd/yyyy) Da				Date First Soug	ght Medical Ca	are (mm/dd/yyyy)	
Signs and Symptoms	Yes	s No	Unk	If Yes, S	pecify as Noted			L			
Fever				Highest	temperature (spec	cify °F/°C)					
Headache											
Abdominal pain											
Chills											
Sweats											
Myalgia											
Other signs / symptoms	(specify	<i>')</i>									
PAST MEDICAL HIST	TORY										
Has the patient previous		diagnose	d with r	nalaria?	Previous Diagno □ P. falciparum □ P. vivax			Not determined Unknown		Previous Illness (mm/dd/yyyy)	
Did the patient have a ble	ood trar known	nsfusion d	or trans <sub>i</sub>	olant within	the last 12 month	ıs?	If Yes, s	specify	·		
CLINICAL COMPLICA	ATION	S FOR	THIS A	TTACK							
Cerebral malaria? □ Yes □ No □ Unkno		If Yes, sp	ecify			Anemia (hemoglobin [Hb] <7g/dL)? If Yes, specify  ☐ Yes ☐ No ☐ Unknown				y	
Spleen rupture?  ☐ Yes ☐ No ☐ Unkno		lf Yes, sp	ecify			Acute kidney injury? If ` □ Yes □ No □ Unknown			If Yes, specif	If Yes, specify	
ARDS pulmonary edema		lf Yes, sp	ecify			High parasitemia (≥5%)? If \\ □ Yes □ No □ Unknown			If Yes, specif	If Yes, specify	
HOSPITALIZATION									1		
Did patient visit the emer  ☐ Yes ☐ No ☐ Unkn		room for i	illness?								
Was patient hospitalized  ☐ Yes ☐ No ☐ Unkn	?			If Yes, ho	w many total hosp	oital nights?		During any part of the hospitalization, did the patient stay in an intensive care unit (ICU) or a critical care unit (CCU)?  ☐ Yes ☐ No ☐ Unknown			
If there were any ER or I	nospital	stays rela	ated to	this illness,	specify details in	the Hospital	ization –	Details section l	below.		
HOSPITALIZATION -	- DETA	AILS									
Hospital Name 1	Street	Address						Admit Date	Admit Date (mm/dd/yyyy)		
	City							Discharge /	Discharge / Transfer Date (mm/dd/yyyy)		
	State	Zip C	ode	Telephor	ne Number			Medical Re	cord Number	Discharge Diagnosis	
Hospital Name 2	Street	Address						Admit Date	(mm/dd/yyyy)		
	City			_				Discharge /	Transfer Date	e (mm/dd/yyyy)	
	State	Zip C	ode	Telephor	ne Number			Medical Re	cord Number	Discharge Diagnosis	

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MA	LARIA	CASE	REPOR	
First three letters of patient's last name:				

TREATMENT/MANAGEMENT						
Received treatment? □ Yes □ No □ Unknown	Therapy for this attack  ☐ Mefloquine ☐ Chloroquine ☐ Primaquine ☐ Tetracycline/doxycyclin				Atovaquone-proguanil (Malarone™) Artesunate Other: Unknown	
OUTCOME						
Outcome?  □ Survived □ Died □ Unknown	If Survived, Survived as of		(n	mm/dd/yyyy)	Date of Death (mm/dd/yyyy)	
MALARIA CHEMOPROPHYLAX	ris					
Was malaria chemoprophylaxis taker □ Yes □ No □ Unknown	n?	Drugs Take  □ Chloroqu  □ Mefloquir	ine   Doxycycl		one-proguanil (Malarone™) pecify):	
Were all pills taken as prescribed?  ☐ Yes, missed no doses ☐ No, missed one to few doses ☐ No, missed more than a few, but le ☐ No, missed half or more of the dos ☐ Don't know ☐ Other (specify):	☐ Forgot☐ Didn't thin☐ Had a sid☐ Was adv	If doses were missed, what was the reason?  If had a side effect, specify				
LABORATORY INFORMATION						
LABORATORY RESULTS SUMI	MARY					
Microscopy of Blood Smear  ☐ Positive ☐ Negative ☐ Not done ☐ Unknown	If Positive, specify  □ P. falciparum □ P. vi  Collection Date (mm/dd/y)		nalariae □ P. ov Laboratory Name	rale □ Not determin	ned □ Unknown Telephone Number	
PCR of Blood  ☐ Positive ☐ Negative ☐ Not done ☐ Unknown	If Positive, specify  □ P. falciparum □ P. vi  Collection Date (mm/dd/y				ned □ Unknown  Telephone Number	
Rapid Diagnostic Test (RDT)  ☐ Positive ☐ Negative ☐ Not done ☐ Unknown	If Positive, specify □ P. falciparum □ P. v Specify RDT	ivax, malariae	e, or ovale □ Mi	xed infection ( <i>P. falcip</i>	parum and P. vivax, malariae, or ovale)	
	☐ BinaxNOW™ ☐ Other		Laboratory Name		Telephone Number	
EPIDEMIOLOGIC INFORMATION	N					
	INCUBATION P	ERIOD IS 30	DAYS PRIOR TO	ILLNESS ONSET		
TRAVEL HISTORY						
Did patient travel <b>out of county of re</b> prior to illness onset?  ☐ Yes ☐ No ☐ Unknown	sidence during the three n	nonths	If No, did patier prior to illness o	onset?	of residence during the three years	
If Yes for one of these questions, ans	wer the following two quest	ions, and spe	cify all locations a	nd dates in the Trave	l History - Details table (see on page 4).	
☐ Military ☐ Airlines/s	riends/relatives [ ship crew [	☐ Refugee/im ☐ Student/tea		Did patient reside in  ☐ Yes, for > 12 mon ☐ Yes, for < 12 mon ☐ No. specify country	ths 🗆 Unknown	

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MA	LARIA	CASE F	REPORT	
First three letters of				
oatient's last name:				

TRAVEL HISTORY	Y – DETAILS							
Travel Type		State	Country	Other location details (cit	y, resort, etc.)	Date Travel Started (mm/dd/yyyy)	Date Travel Ended (mm/dd/yyyy)	
☐ Domestic ☐ ☐ International	Unknown							
☐ Domestic ☐ ☐ International	Unknown							
☐ Domestic ☐ ☐ International	Unknown							
NOTES / REMARK	(S							
REPORTING AGE	NCY							
Investigator Name			Local Health Jurisdiction		Telephone Number	Date (mm/d	Date (mm/dd/yyyy)	
First Reported By  ☐ Clinician ☐ Labor	ratory □ Other	(specify):						
EPIDEMIOLOGICA	AL LINKAGE							
Epi-linked to known o		Contact Na	ame / Case Nun	nber				
DISEASE CASE C	LASSIFICAT	ION						
Case Classification (s		ion below)						
STATE USE ONLY	,							
State Case Classifica  ☐ Confirmed ☐ Sus		case □ Nee	ed additional info	ormation				

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M	ALARIA	CASE F	REPORT
First three letters of			
patient's last name:			

## **CASE DEFINITION**

## **MALARIA (2014)**

## **CLINICAL DESCRIPTION**

The first symptoms of malaria (most often fever, chills, sweats, headaches, muscle pains, nausea and vomiting) are often not specific and are also found in other diseases (such as influenza and other common viral infections). Likewise, the physical findings are often not specific (elevated temperature, perspiration, tiredness). In severe malaria (caused by *P. falciparum*), clinical findings (confusion, coma, neurologic focal signs, severe anemia, respiratory difficulties) are more striking and may increase the suspicion index for malaria.

#### LABORATORY CRITERIA FOR DIAGNOSIS

- Detection of circulating malaria-specific antigens using rapid diagnostic test (RDT), OR
- Detection of species specific parasite DNA in a sample of peripheral blood using a Polymerase Chain Reaction (PCR) test. (Note: Laboratory-developed malaria PCR tests must fulfill Clinical Laboratory Improvement Amendments [CLIA] requirements, including validation studies), OR
- Detection of malaria parasites in thick or thin peripheral blood films, determining the species by morphologic criteria, and calculating the percentage of red blood cells infected by asexual malaria parasites (parasitemia).

# CRITERIA TO DISTINGUISH A NEW CASE FROM AN EXISTING CASE

A subsequent attack experienced by the same person but caused by a different Plasmodium species is counted as an additional case.

A subsequent attack experienced by the same person and caused by the same species in the United States may indicate a relapsing infection or treatment failure caused by drug resistance or a separate attack.

## **CASE CLASSIFICATION**

#### Suspected

 Detection of *Plasmodium* species by rapid diagnostic antigen testing without confirmation by microscopy or nucleic acid testing in any person (symptomatic or asymptomatic) diagnosed in the United States, regardless of whether the person experienced previous episodes of malaria while outside the country.

# Confirmed

- Detection and specific identification of malaria parasite species by microscopy on blood films in a laboratory with appropriate expertise in any person (symptomatic or asymptomatic) diagnosed in the United States, regardless of whether the person experienced previous episodes of malaria while outside the country, OR
- Detection of Plasmodium species by nucleic acid test\* in any person (symptomatic or asymptomatic) diagnosed in the United States, regardless of whether the person experienced previous episodes of malaria while outside the country, OR
- Detection of unspeciated malaria parasite by microscopy on blood films in a laboratory with appropriate expertise in any person (symptomatic or asymptomatic) diagnosed in the United States, regardless of whether the person experienced previous episodes of malaria while outside the country.
- \* Laboratory-developed malaria PCR tests must fulfill CLIA requirements, including validation studies.

#### CASE CLASSIFICATION COMMENTS

Clinical samples including Blood smears or EDTA whole blood from all cases can be referred to the CDC Division of Parasitic Diseases and Malaria Diagnostic Laboratory for confirmation of the diagnosis and antimalarial drug resistance testing. Any questionable cases should be referred to the CDC Division of Parasitic Diseases and Malaria Diagnostic Laboratory for confirmation of the diagnosis.

### **COMMENTS**

Blood smears from questionable cases should be referred to the CDC Division of Parasitic Diseases Diagnostic Laboratory for confirmation of the diagnosis.

Cases also are classified according to the following World Health Organization categories:

- Autochthonous:
  - o Indigenous: malaria acquired by mosquito transmission in an area where malaria is a regular occurrence
  - o Introduced: malaria acquired by mosquito transmission from an imported case in an area where malaria is not a regular occurrence
- Imported: malaria acquired outside a specific area (e.g., the United States and its territories)
- Induced: malaria acquired through artificial means (e.g., blood transfusion, common syringes, or malariotherapy)
- Relapsing: Recurrence of disease after it has been apparently cured. In malaria, true relapses are caused by reactivation of dormant liver-stage
  parasites (hypnozoites) of P. vivax and P. ovale.

• Cryptic: an isolated case of malaria that cannot be epidemiologically linked to additional cases.

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Guamanian

• Melanesian

MA	MALARIA CASE REPORT							
First three letters of								
patient's last name:								

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RACE DESCRIPTIONS	3						
Race	[	escription					
American Indian or Alaska	a Native F	atient has origins	in <b>any</b> of the original	peoples of North and Sout	h America (including	Central Americ	ca).
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	F	atient has origins	in any of the black ra	cial groups of Africa.			
Native Hawaiian or Other	Pacific Islander F	atient has origins	in <b>any</b> of the original	peoples of Hawaii, Guam,	American Samoa, or	other Pacific Is	slands.
White Patient has origins in <b>any</b> of the original peoples of Europe, the Middle East, or North Africa				rica.			
ASIAN GROUPS							
Bangladeshi	<ul> <li>Filipino</li> </ul>	•	Japanese	<ul> <li>Maldivian</li> </ul>	• Sı	ri Lankan	
<ul> <li>Bhutanese</li> </ul>	<ul> <li>Hmong</li> </ul>	•	Korean	<ul> <li>Nepalese</li> </ul>	• Ta	aiwanese	
• Burmese	<ul> <li>Indian</li> </ul>	•	Laotian	<ul> <li>Okinawan</li> </ul>	• Th	hai	
Cambodian	<ul> <li>Indonesian</li> </ul>	•	Madagascar	<ul> <li>Pakistani</li> </ul>	• Vi	ietnamese	
• Chinese	<ul> <li>Iwo Jiman</li> </ul>	•	Malaysian	<ul> <li>Singaporean</li> </ul>			
NATIVE HAWAIIAN A	ND OTHER PACIFIC	ISLANDER GI	ROUPS				
Carolinian	<ul> <li>Kiribati</li> </ul>	•	Micronesian	<ul> <li>Pohnpeian</li> </ul>	• Ta	ahitian	
• Chamorro	<ul> <li>Kosraean</li> </ul>	•	Native Hawaiian	<ul> <li>Polynesian</li> </ul>	• To	okelauan	
<ul> <li>Chuukese</li> </ul>	Mariana Isla	der •	New Hebrides	<ul> <li>Saipanese</li> </ul>	• To	ongan	
• Fijian	<ul> <li>Marshallese</li> </ul>	•	Palauan	<ul> <li>Samoan</li> </ul>	• Ya	apese	

Papua New Guinean

• Solomon Islander

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MA	MALARIA CASE REPOR						
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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