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

Q FEVER CASE REPORT

PATIENT INFORMATIO	N										
Last Name	First Name			Middle	e Name)	Suffix	Primary Language			
							□English				
Social Security Number (9 digits) DOE			DOB (mm/dd/yyyy)			Age	□Years	□Spanish			
							□Months	□Other:			
				1			□Days	Ethnicity (check one)			
Address Number & Street - Re	esidence			Apartr	ment/U	nit Numb	ber	□Hispanic/La			
								□Non-Hispan	ic/Non-Lati	no	
City/Town				State Zip Code			Code				
								Race*	annly race	e descriptions on page 9)	
Census Tract	County of Res	idence	e	Count	try of R	esidence	;				
								□American Indian or Alaska Native			
Country of Birth		If no	ot U.S. Born -	rn - Date of Arrival in U.S. (mm/dd/yyyy)				□Asian (check all that apply)			
								□Asian Indian □Japanese			
Home Telephone	Cellular	r Phon	e/Pager		Work/S	School Te	elephone	□Cambod	lian	□Korean	
								□Chinese		□Laotian	
E-mail Address			Other Electronic Contact Information					□Filipino		□Thai	
								□Hmong		□Vietnamese	
Mark (Dalage) Legetier			Mark/Oakaal	/ork/School Contact					_ Other:		
Work/School Location			WOIK/SCHOOL	Contact				□Pacific Islander (check all that apply)			
O a mala m								_ □Native H		□Samoan	
Gender □Male □Female □O	thor							□Guaman			
	ther:				-			□Other:			
Pregnant?			If Yes, Est. Delivery Date (mm/dd/yyyy)								
□Yes □No □Unk								Other:			
Medical Record Number			Patient's Parent/Guardian Name					□Unk			
								*0	م نام معام م	a colf non-ortige	
Occupation Setting (see list on	n page 9)		Other Describ	ner Describe/Specify						or self-reporting or should be based on the	
									dentity or s	elf-reporting. Therefore,	
Occupation (see list on page 9) Other I			Other Describ	Other Describe/Specify					ld be offere e racial des	d the option of selecting	
										ignation.	
CLINICAL INFORMATIO	N	I									
Physician Name - Last Name				First Name			Telephone Number				

Q FEVER CASE REPORT

SIGNS AND SYMPTOMS								
Symptomatic? □Yes □No □Unk	Onset	Date (n	nm/dd/y	<i>(ууу</i>)	Date First Sought Medical Care (mm/dd/yyyy)			
Signs and Symptoms	Yes	No	Unk	If Yes, Specify as Noted				
Fever				Highest temperature (specify °F/°C)				
Myalgia								
Rigors, shaking chills								
Malaise								
Rash				Location				
Cough								
Severe retrobulbar headache								
Splenomegaly								
Hepatomegaly								
Pneumonia								
Hepatitis								
Endocarditis								
Osteomyelitis, osteoarthritis								
Abdominal pain								
Abnormal chest x-ray				Findings				
Elevated liver enzyme levels				Specify				
Thrombocytopenia								
Other signs / symptoms (specif	y)							
PAST MEDICAL HISTORY								
Immunocompromised? □Yes □No □Unk	If Yes, specify condition							
Valvular heart disease?								
□Yes □No □Unk	If Vor	specif	data					
Prior Q fever diagnosis? □Yes □No □Unk	n res,	specify	uale					
Chronic kidney disease? □Yes □No □Unk	lf Yes,	specify	conditi	ion				
Pregnancy? □Yes □No □Unk								
Other (specify)								

HOSPITALIZATION											
Did patient visit emerge □Yes □No □Unk	ency ro	om for illness?		<i>Was patient</i> □Yes □No				If Yes, how many total hospital nights?			
If there were any ER or	hospit	al stays related to	this illness,	specify detail	ls belo	W.					
HOSPITALIZATION	- DET	AILS									
Hospital Name 1 Street Address Admit I							Admit Da	Date (mm/dd/yyyy)			
	City						Discharge / Transfer Date (mm/dd/yyyy)				
	State	tate Zip Code Telephone Number					Medical I	Record Number	Discharge Diagnosis		
Hospital Name 2	Stre	et Address	_1			Admit Da	ate (mm/dd/yyyy)				
	City						Discharg	e / Transfer Date (n	nm/dd/yyyy)		
	State	e Zip Code	e Number			Medical I	Record Number	Discharge Diagnosis			
TREATMENT / MAN	IAGEI	MENT									
Received treatment? □Yes □No □Unk		If Yes, specify the	treatments	below.							
TREATMENT / MAN	IAGEI	MENT DETAILS									
<i>Treatment Type 1</i> □Antibiotic □Other		Treatment Name				Date Star	ted (mm/a	ld/yyyy)	Date Ended (mm/dd/yyyy)		
<i>Treatment Type 2</i> □Antibiotic □Other		Treatment Name				Date Star	ted (mm/a	dd/yyyy) Date Ended (mm/dd/yyyy)			
OUTCOME											
Outcome? □Survived □Died □U		If Survived, Survived as of				(mm/	/dd/yyyy)		Date of Death (mm/dd/yyyy)		
LABORATORY IN	FOR	MATION									
LABORATORY RES	ULTS	SUMMARY - SI	ERUM								
Specimen Type 1) DIFA DCF DELISA			_ISA □MAT □Phase			hase Antibody Type se I □Phase II □IgM □IgG		Collection Date (mm/dd/yyyy)		
USerum (convalescent	□Serum (convalescent) <i>C. burnetii Quantitative Result</i>					ult Specify Result Unit □Titer □O.D.			gative □Equivocal		
	Laboratory Name							Telephone Numbe	er		
Specimen Type 2 □Serum (acute)		<i>Type of Test</i> □IFA □CF □	IELISA E	Test Phase SA □MAT □Phase I			Phase Antibody Type se I □Phase II □IgM □IgG		Collection Date (mm/dd/yyyy)		
□Serum (convalescent	:)	C. burnetii Quantit	lt	Spec	ify Result U	Jnit	Interpretation				
	F	Laboratory Name			□Tite	er □O.D.		□Positive □Negative □Equivocal Telephone Number			
Opposite on Targe 0		Time of Toot			— (D /					
Specimen Type 3 □Serum (acute)		Type of Test □IFA □CF □	IELISA E	IMAT		<i>Phase</i> ase I □PI	hase II	Antibody Type □IgM □IgG	Collection Date (mm/dd/yyyy)		
□Serum (convalescent	:)	C. burnetii Quantit	ative Resul	t	Spec □Tite	eify Result L er □O.D.		Interpretation □Positive □Ne	gative □Equivocal		
		Laboratory Name						Telephone Number			

Specimen Type 1	If Clinical s	pecime	en, spec	ify		Type of Test	Collection Date (mm/dd/yyyy)				
⊐Blood ⊐Clinical specimen	Interpretati	00				□Culture □PCR □Immunostain Laboratory Name	Telephone Number				
	Interpretati	011									
Specimen Type 2 □Blood				ify		Type of Test Collection Date (mm/dd/yyy □Culture □PCR □Immunostain					
□Clinical specimen	specimen Interpretation					Laboratory Name Telephone Number					
IMAGING SUMMARY	,										
Anatomic Site Date (mm/dd/yyyy)					Type of Imaging						
					-	□X-ray □CT □MRI □Other:					
Result	Interpretation				Facility Name	Telephone Number					
EPIDEMIOLOGIC I	NFORMATIO	ON									
		11	NCUBA	TION PI	ERIOD: 2 MO	NTHS PRIOR TO ILLNESS ONSET					
FOOD HISTORY											
Di	ID THE PATIEN	IT EAT	OR DR	NINK AN	IY OF THE FO	OLLOWING ITEMS DURING THE INCU	BATION PERIOD?				
Food Item Yes			No	Unk	If Yes, Speci						
Unpasteurized milk	Jnpasteurized milk Animal spec					cies and source					
Other unpasteurized dairy product Animal spec					Animal spec	cies and source					
Other (specify)											
ANIMAL EXPOSURE	S										
DID TH	E PATIENT HA	VE CO	NTACT	WITH A	ANY OF THE	FOLLOWING ANIMALS DURING THE I	NCUBATION PERIOD?				
Exposure		Yes	No	Unk	If Yes, Speci	fy as Noted					
Birthing animals or birth	products				Animal spec	ies and location					
Cattle					Exposure an	d geographic location					
Sheep					Exposure an	d geographic location					
Goats					Exposure and geographic location						
Pigeons					Exposure and geographic location						
Rabbits					Exposure an	d geographic location					
Cats					Exposure an	d geographic location					

OCCUPATIONAL / RECREATIONAL EXPOSURES

I (OR SPENI	D SIGNI	IFICAN	T TIME IN) A	ANY OF THE	FOLLOWING ACTIV	ITIES DUR	NG THE INCUBATION PERIOD?	
Yes	No	Unk	If Yes, Spe	ecify as Note	d			
			Location	Location				
			Location					
			Animal species and location					
			Animal species and location					
			Animal spe	ecies and loc	ation			
			Location					
			Animal spe	ecies and loc	ation			
			Animal spe	ecies and loc	ation			
			Animal spe	ecies and loc	ation			
			Occupation	n				
raphic locatio	on)	l						
-			ITHS PRIO	R TO ILLN	ESS ONSET)			
-	DD IS 2			riod?	ESS ONSET)	and dates b	elow.	
TION PERIO	DD IS 2			riod?		and dates b	elow.	
TION PERIC	DD IS 2	the ind		riod? If Yes	s, specify all locations a	1	elow. el Ended <i>(mm/dd/yyyy)</i>	
FION PERIO	DD IS 2	the ind	cubation per	riod? If Yes	s, specify all locations a	1		
FION PERIO	DD IS 2	the ind	cubation per	riod? If Yes	s, specify all locations a	1		
FION PERIO	DD IS 2	the ind	cubation per	riod? If Yes	s, specify all locations a	1		
FION PERIO	DD IS 2	the ind	cubation per	riod? If Yes	s, specify all locations a	1		
FION PERIO	DD IS 2	be inclusion of the inc	ate Travel St	riod? If Yes	s, specify all locations a	1		
rion period of residence y)	DD IS 2	be inclusion of the inc	ate Travel St	riod? If Yes	s, specify all locations a	1		
rion period of residence y)	DD IS 2	contact	ate Travel St	riod? If Yes arted (mm/d	s, specify all locations a	Date Trave		
rion period	DD IS 2 e during	contact	s)?	riod? If Yes arted (mm/d	s, specify all locations a d/yyyy) specify details below.	Date Trave	el Ended <i>(mm/dd/yyyy)</i>	
	Yes	Yes No Yes No	Yes No Unk Image: Ima	Yes No Unk If Yes, Spectrum Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stress Image: Spectrum Stres Image: Sp	Yes No Unk If Yes, Specify as Noted Image: Ima	Yes No Unk If Yes, Specify as Noted Image: Ima	Image: Section Location Image: Location Location Image: Location Animal species and location Image: Location Location Image: Location Animal species and location Image: Location Occupation	

(continued on page 6)

ILL CONTACTS - DETAILS (c	ontinued)								
Name 2	Age	Age Gender		e Number	Type of Contact / Relate	ionship	Date of Conta	act (mm/dd/yyyy)	
	Street Add	ress			Exposure Event		Illness Onset	Date (mm/dd/yyyy)	
	City		State	Zip Code	Date First Reported to Public Health (mm/dd/yyyy)				
NOTES / REMARKS	1								
REPORTING AGENCY									
Investigator Name	Local I	Health Jurisdi	ction	Telephon	e Number	Dai	te (mm/dd/yyyy	/)	
First Reported By □Clinician □Laboratory □Othe	r (specify):			1					
EPIDEMIOLOGICAL LINKAG	E								
Epi-linked to known case? □Yes □No □Unk	Contact I	Name / Case	Number						
DISEASE CASE CLASSIFICA	TION								
Disease Type (see case definition □Confirmed acute □Probable a		firmed chroni	c ⊡Probabl	e chronic					
OUTBREAK									
	s, extent of o le CA jurisdic		ple CA jurisdi	ctions □M	ultistate □International	□Unk	□Other (spe	cify):	
Mode of Transmission			<u> </u>				ID number	Pattern 2 ID number	
STATE USE ONLY									
State Case Classification □Confirmed acute □Probable a	cute □Con	firmed chronie	c □Probabl	e chronic	□Not a case □Need ad	dditional i	nformation		

CASE DEFINITION

Q FEVER (2010)

CLINICAL PRESENTATION

ACUTE INFECTION

Acute fever usually accompanied by rigors, myalgia, malaise, and a severe retrobulbar headache. Fatigue, night-sweats, dyspnea, confusion, nausea, diarrhea, abdominal pain, vomiting, non-productive cough, and chest pain have also been reported. Severe disease can include acute hepatitis, atypical pneumonia with abnormal radiograph, and meningoencephalitis. Pregnant women are at risk for fetal death and abortion. Clinical laboratory findings may include elevated liver enzyme levels, leukocytosis, and thrombocytopenia. Asymptomatic infections may also occur.

Note: Serologic profiles of pregnant women infected with acute Q fever during gestation may progress frequently and rapidly to those characteristic of chronic infection.

CHRONIC INFECTION

Infection that persists for more than 6 months. Potentially fatal endocarditis may evolve months to years after acute infection, particularly in persons with underlying valvular disease. Infections of aneurysms and vascular prostheses have been reported. Immunocompromised individuals are particularly susceptible. Rare cases of chronic hepatitis without endocarditis, osteomyelitis, osteoarthritis, and pneumonitis have been described.

CLINICAL EVIDENCE

ACUTE Q FEVER

Acute fever and one or more of the following: rigors, severe retrobulbar headache, acute hepatitis, pneumonia, or elevated liver enzyme levels.

CHRONIC Q FEVER

Newly recognized, culture-negative endocarditis, particularly in a patient with previous valvulopathy or compromised immune system, suspected infection of a vascular aneurysm or vascular prosthesis, or chronic hepatitis, osteomyelitis, osteoarthritis, or pneumonitis in the absence of other known etiology.

ACUTE Q FEVER LABORATORY EVIDENCE

LABORATORY CONFIRMED

- Serological evidence of a fourfold change in immunoglobulin G (IgG)-specific antibody titer to C. burnetii phase II antigen by indirect immunofluorescence
 assay (IFA) between paired serum samples (CDC suggests one taken during the first week of illness and a second 3-6 weeks later, antibody titers to
 phase I antigen may be elevated or rise as well), or
- Detection of C. burnetii DNA in a clinical specimen via amplification of a specific target by polymerase chain reaction (PCR) assay, or
- Demonstration of C. burnetii antigen in a clinical specimen by immunohistochemical methods (IHC), or
- Isolation of C. burnetii from a clinical specimen by culture.

LABORATORY SUPPORTIVE

- Has a single supportive IFA IgG titer of ≥ 1:128 to phase II antigen (phase I titers may be elevated as well).
- Has serologic evidence of elevated phase II IgG or IgM antibody reactive with *C. burnetii* antigen by enzyme-linked immunosorbent assay (ELISA), dot-ELISA, or latex agglutination.

Note: For acute testing, CDC uses in-house IFA IgG testing (cutoff of \geq 1:128), preferring simultaneous testing of paired specimens, and does not use IgM results for routine diagnostic testing.

CHRONIC Q FEVER LABORATORY EVIDENCE

LABORATORY CONFIRMED

- Serological evidence of IgG antibody to *C. burnetii* phase I antigen ≥ 1:800 by IFA (while phase II IgG titer will be elevated as well; phase I titer is higher than the phase II titer), or
- Detection of C. burnetii DNA in a clinical specimen via amplification of a specific target by PCR assay, or
- Demonstration of C. burnetii antigen in a clinical specimen by IHC, or
- Isolation of C. burnetii from a clinical specimen by culture.

LABORATORY SUPPORTIVE

- Has an antibody titer to C. burnetii phase I IgG antigen ≥ 1:128 and < 1:800 by IFA.

Note: Samples from suspected chronic patients should be evaluated for IgG titers to both phase I and phase II antigens. Current commercially available ELISA tests (which test only for phase II) are not quantitative, cannot be used to evaluate changes in antibody titer, and hence are not useful for serological confirmation. IgM tests are not strongly supported for use in serodiagnosis of acute disease, as the response may not be specific for the agent (resulting in false positives) and the IgM response may be persistent. Complement fixation (CF) tests and other older test methods are neither readily available nor commonly used.

Serologic test results must be interpreted with caution, because baseline antibodies acquired as a result of historical exposure to Q fever may exist, especially in rural and farming areas.

CASE DEFINITION (continued)

EXPOSURE

Exposure is usually via aerosol, is broadly interpreted, and may be unknown (especially for chronic infection), but often includes the presence of goats, sheep, or other livestock, especially during periods of parturition. Direct contact with animals is not required, and variable incubation periods may be dose dependent.

CASE CLASSIFICATION

- Confirmed Acute Q Fever: A laboratory confirmed case that either meets clinical case criteria or is epidemiologically linked to a lab confirmed case.
- Probable Acute Q Fever: A clinically compatible case of acute illness (meets clinical evidence criteria for acute Q fever illness) that has laboratory supportive results for past or present acute disease (antibody to Phase II antigen) but is not laboratory confirmed.
- Confirmed Chronic Q Fever: A clinically compatible case of chronic illness (meets clinical evidence criteria for chronic Q fever) that is laboratory confirmed for chronic infection.
- Probable Chronic Q Fever: A clinically compatible case of chronic illness (meets clinical evidence criteria for chronic Q fever) that has laboratory supportive results for past or present chronic infection (antibody to Phase I antigen).

Race	Description	
American Indian or Alaska Native	Patient has origins in any of the	e original peoples of North and South America (including Central America).
Asian	j	e original peoples of the Far East, Southeast Asia, or the Indian subcontinen ambodia, China, India, Indonesia, Japan, Korea, Malaysia, Nepal, Pakistan, I, and Vietnam).
Black or African American	Patient has origins in any of the	e black racial groups of Africa.
Native Hawaiian or Other Pacific Islander	Patient has origins in any of the	e original peoples of Hawaii, Guam, American Samoa, or other Pacific Island
White	Patient has origins in any of the	e original peoples of Europe, the Middle East, or North Africa.
OCCUPATION SETTING		
Childcare/Preschool		Homeless Shelter
Correctional Facility		Laboratory
Drug Treatment Center		Military Facility
Food Service		Other Residential Facility
Health Care - Acute Care Facility		Place of Worship
Health Care - Long Term Care Facility		School
Health Care - Other		Other
OCCUPATION		
Adult film actor/actress		Medical - medical assistant
• Agriculture - farmworker or laborer (crop,	nursery, or greenhouse)	Medical - pharmacist
Agriculture - field worker	, , , , , , , , , ,	 Medical - physician assistant or nurse practitioner
Agriculture - migratory/seasonal worker		Medical - physician or surgeon
Agriculture - other/unknown		Medical - nurse
 Animal - animal control worker 		Medical - other/unknown
Animal - farm worker or laborer (farm or ra	anch animals)	Military
Animal - veterinarian or other animal heal	h practitioner	Police officer
 Animal - other/unknown 		 Professional, technical, or related profession
Clerical, office, or sales worker		Retired
Correctional facility - employee		Sex worker
Correctional facility - inmate		Stay at home parent/guardian
Craftsman, foreman, or operative		Student - preschool or kindergarten
Daycare or child care attendee		Student - elementary or middle school
Daycare or child care worker		Student - high school
Dentist or other dental health worker		Student - college or university
Drug dealer		Student - other/unknown
 Fire fighting or prevention worker 		Teacher/employee - preschool or kindergarten
 Flight attendant 		Teacher/employee - elementary or middle school
 Food service - cook or food preparation w 	orker	Teacher/employee - high school
Food service - host or hostess		Teacher/instructor/employee - college or university
Food service - server		Teacher/instructor/employee - other/unknown
Food service - other/unknown		Unemployed - seeking employment
Homemaker		Unemployed - not seeking employment
Laboratory technologist or technician		Unemployed - other/unknown
Laborer - private household or unskilled w	vorker	Volunteer
Manager, official, or proprietor		Other
Manager, one and or proprietor Manicurist or pedicurist		Refused
Medical - emergency medical technician of	or paramedic	Unknown
Medical - enleigency medical technician c Medical - health care worker	n parametrio	Shidowh