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							

HANTAVIRUS INFECTIONS CASE REPORT

PATIENT INFORMATION	N											
Last Name	First Name				Middle Nam			ne Suffix		Primary Lange	uage	
				<u> </u>						□English □Spanish		
Social Security Number (9 digit	ts)			DOB (mm/da	l/yyyy)		Age		☐ Years ☐ Months	□Other:		
									□Days	Ethnicity (che	ck one)	
Address Number & Street - Re	sidence	9			Apart	tment/	Unit Num	nbe	r	□Hispanic/La		
										□Non-Hispan	ic/Non-Lati	no
City/Town					State		Zip	Zip Code		□Unk Race*		
Census Tract	Coun	ty of Resid	dono	^	Cour	tru of	 Residenc			1 '		e descriptions on page 7)
Census Tract	Court	ly or Resid	uenc	E	Court	iliy Oi i	Residerio	æ		□African-Ame		
Country of Birth			If no	ot U.S. Born - I	Data o	f Arrive	al in II S	/m	m/dd/\aaa\	□American In		
Country of Birtin			11 110	J. O.S. DOITI - 1	Date of	AIIIVO	ai iii 0.3.	(111	m/dd/yyyy)	□Asian (chec		
Home Telephone		Cellular	Dhor	no/Pagar		Work	d./Cabaal Talambana			□Asian Ind		□Japanese □Korean
Потте тетернопе		Celiulai	FIIOI	nne/Pager Work/School Telephone					әрпопе	□Chinese	ian	□Laotian
E-mail Address				Other Electronic Contact Information						□Filipino		□Thai
E-mail Address				Other Electronic Contact Information						□Hmong		□Vietnamese
Work/School Location				Work/School Contact						□Other:		
WORK SCHOOL LOCATION				Work/School Contact						□Pacific Islan	,	,
Candar										□Native H		□Samoan
<i>Gender</i> □Male □Female □Ot	her									□Guaman □Other:		
			Ī						1	□ □Other □White		
Pregnant? □Yes □No □Unk				If Yes, Est. Delivery Date (mm/dd/yyyy))	□Other:		
Medical Record Number				Patianta Parant/Cuardian Nama						Unk		
Medical Record Number				Patient's Parent/Guardian Name					LIONK			
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				
, , , , ,			, ,							elf-reporting. Therefore,		
Occupation (see list on page 7)				Other Describe/Specify					patients shoul more than one		d the option of selecting ignation.	
CLINICAL INFORMATIO	N											
Physician Name - Last Name							First Na	am	е		Telephone	e Number

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First three letters of		
patient's last name:		

SIGNS AND SYMPTO	OMS									
Symptomatic? □Yes □No □Unk	Onset	Date (mr	n/dd/yyy	/y)		Date	e First Sought M	edical Car	e (mm/dd/yyyy)	
Signs and Symptoms		Yes	No	Unk	If Yes, Specify as Noted					
Fever					Onset date (mm/dd/yyyy)			Highest te	emperature (specify °F/°C)	
Sweats / chills / rigors					Onset date (mm/dd/yyyy)					
Weakness / lethargy / m	alaise				Onset date (mm/dd/yyyy)					
Shortness of breath					Onset date (mm/dd/yyyy)					
Chest pain					Onset date (mm/dd/yyyy)					
Cough					Onset date (mm/dd/yyyy)					
Respiratory distress (AR	DS)				Onset date (mm/dd/yyyy)					
Fatigue					Onset date (mm/dd/yyyy)					
Headache					Onset date (mm/dd/yyyy)					
Confusion / delirium					Onset date (mm/dd/yyyy)					
Muscle ache				Onset date (mm/dd/yyyy)						
Nausea, vomiting, and /	or diarrhe	а			Onset date (mm/dd/yyyy)					
Abdominal pain					Onset date (mm/dd/yyyy)					
Dizziness					Onset date (mm/dd/yyyy)					
Other symptom (specify)					Onset date (mm/dd/yyyy)					
HOSPITALIZATION		·								
Did patient visit emerger □Yes □No □Unk	ncy room t	or illness:	?		Was patient hospitalized? If Yes, how many total h □Yes □No □Unk			ny total ho	ospital nights?	
Was patient placed in re □Yes □No □Unk	spiratory i	solation?			If there were any ER or hospital stays related to this illness, specify details below.					
HOSPITALIZATION -	DETAIL	s								
Hospital Name 1	Street Ad	ddress				Admis	ssion Date (mm/c	ld/yyyy)		
City				Discha	arge / Transfer D	ate (mm/d	ld/yyyy)			
State Zip Code Telepho		ne Number A		Medical Record Number		Discharge Diagnosis				
Hospital Name 2	Street A	ddress				Admis	ssion Date (mm/c	ld/yyyy)		
	City					Discha	arge / Transfer D	ate (mm/d	ld/yyyy)	
	State	Zip Cod	e 1	Telephor	ne Number	Medic	cal Record Numb	er	Discharge Diagnosis	
	3.0.0			21001101		7775410			2.conargo Diagnosio	

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TREATMENT / MAN	IAGEMEN	T									
Received treatment? □Yes □No □Unk If Yes, specify the treatments below.											
Treatment / Manageme	nt	Yes	s No	No Unk If Yes, Specify as Noted							
Supplementary oxygen					Date	e started (mm/do	d/yyyy)	Date ende	ed (mm/d	d/yyyy)	
Intubated					Date	e started (mm/de	d/yyyy)	Date ende	ed (mm/de	d/yyyy)	
Respirator					Date	e started (mm/de	d/yyyy)	Date ende	ed (mm/de	d/yyyy)	
ЕСМО					Date	e started (mm/de	d/yyyy)	Date ende	ed (mm/d	d/yyyy)	
Hemodynamic support (vasopressors)					Date	e started (mm/do	d/yyyy)	Date ende	ed (mm/d	d/yyyy)	
Other treatment / mana or complications	gement				If Ye	es, specify treatr	ment below				
TREATMENT / MAN	IAGEMEN	T - C	THER	/ COM	PLICA	TIONS					
Treatment / Manageme	ent or Comp	licatio	วท		Date	e Started (mm/d	ld/yyyy)	Date End	ed (mm/d	ld/yyyy)	
OUTCOME					,						
Outcome? □Survived □Died □U	Ink		If Surviv	,			(mm/dd/yyyy	<i>(</i>)	Date of Death (mm/dd/yyyy)		
LABORATORY IN	FORMAT	ION						•			
LABORATORY RES	SULTS SU	MMA	IRY								
Specimen Type 1	Collection	Date	(mm/da	l/yyyy)	Туре	of Test	Antigen □Sin Nombre virus □Puumala virus □Hantavirus (unspecified) □Unknown antigen □Other antigen (specify):				
Results			<i>Interpre</i> a		egative	□Equivocal	Laboratory Name			Telephone Number	
Specimen Type 2	Collection	Date	(mm/da	l/yyyy)	Туре	of Test	Antigen □Sin Nombre virus □Puur □Unknown antigen □Othe	umala virus □Hantavirus (unspecified) ther antigen (specify):			
Results			<i>Interpre</i> a		egative	□Equivocal	Laboratory Name			Telephone Number	
ADDITIONAL LABO	RATORY	RES	ULTS								
				DID	THE PA	TIENT HAVE A	ANY OF THE FOLLOWING?				
Laboratory Test / Procedure Yes No Unk If Yes, Specify as Noted											
Thrombocytopenia Lowest platelet count (platelets ≤ 150,000 mm³)											
Elevated hematocrit (Hct) Highest Hct											
Elevated creatinine						Highest creati	inine				
WBC						Total neutroph	nils (%)	Lymp	ohocytes	(%)	
Total neutrophilis (%)											

Banded neutrophils (%)

									nree letters of t's last name:	
ADDITIONAL LABOR	RATORY RES	ULTS	(contir	nued)						
Laboratory Test / Procedu	ure	Yes	No	Unk	If Yes, S	pecify as	Noted			
Lymphoctyes (%)										
Thoracic radiographs					Chief fin	dings		Date	(mm/dd/yyyy)	
Oxygen saturation < 90%	at any time									
Was an autopsy performe	ed?				Attach a	copy of	report.			
EPIDEMIOLOGIC II	NFORMATIC	N								
		II	NCUBA	TION F	PERIOD: 3	0 DAYS	PRIOR TO ILLNESS ONSET			
EXPOSURES / RISK	FACTORS									
Dil	D THE PATIEN	T EXPE	RIENC	EANY	OF THE F	OLLOW	ING EVENTS DURING THE I	NCUBAT	TION PERIOD?	
Event		Ye	es N	lo L	Jnk If Yes	s, Specify	y as Noted			
Entered confined, poorly	ventilated spac	е			Loca	ntion(s)			Date (mm/dd/yyyy)	
Cleaned confined, poorly	ventilated space	е			Loca	ntion(s)			Date (mm/dd/yyyy)	
Observe rodents, rodent	nest / dropping	s			Loca	Location(s)			Date (mm/dd/yyyy)	
Handle rodents, rodent n	est / droppings				Loca	ntion(s)			Date (mm/dd/yyyy)	
TRAVEL HISTORY (in	ncubation pe	riod 30	days)	prior	to illness	onset)				
Did patient travel outside □Yes □No □Unk	of county of I	esiden	ce durii	ng the i	incubation	period?	Has the patient traveled outs □Yes □No □Unk	side the	U.S. during the incubation period?	
If Yes for either of these of	questions, spec	ify all lo	cations	and da	ites below.					
TRAVEL HISTORY - L	DETAILS									
Location (city, county, sta	te, country)						Date Travel Started (mm/do	d/yyyy)	Date Travel Ended (mm/dd/yyyy)	
CONTACTS / OTHER	ILL PERSOI	VS								
Any contacts with similar illness? □Yes □No □Unk If Yes, specify details below.										
ILL CONTACTS - DE	TAILS					·				
Name 1	Age Ger	nder	Telep	phone I	Number	Type of	f Contact / Relationship			
	Street Addres	S	ı			Date of	f Contact (mm/dd/yyyy)	Illness	Onset Date (mm/dd/yyyy)	
City State Zip Code						Date First Reported to Public Health (mm/dd/yyyy)				

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CONTACTS / OTHER ILL PERSONS (continued)											
ILL CONTACTS - DETAILS											
Name 2	Age	Gender	Telephon	e Number	Type of Contact / Relationship						
	Street A	ddress			Date of Contact (mm/dd/yyy	y)	Illness Onset Date (n	nm/dd/yyyy)			
	City State Zip Code Date First Reported to Public Health (mm/dd/yyyy)										
NOTES / REMARKS				'							
REPORTING AGENC	Υ										
Investigator Name		Local I	Health Juriso	diction		Telepho	ne Number	Date (mm/dd/yyyy)			
First Reported By □Clinician □Laboratory	√ □Othe	(specify):									
EPIDEMIOLOGICAL I	LINKAG	E									
Epi-linked to known case □Yes □No □Unk	?	Contact I	Vame / Case	e Number							
DISEASE CASE CLA	SSIFICA	TION									
Case Classification (see □Confirmed	case defi	nition on pag	e 6)								
OUTBREAK											
Part of known outbreak? □Yes □No □Unk	1	s, extent of o		tiple CA juriso	dictions □Multistate □Inte	rnational	□Unk □Other (sp	ecify):			
Mode of Transmission □Point source □Perso	n-to-pers	on □Unk	□Other:								
STATE USE ONLY	ļ										
Case Classification □Confirmed □Not a cas	se □Nee	d additional i	nformation								

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CASE DEFINITION

HANTAVIRUS INFECTIONS (2010)

CLINICAL DESCRIPTION

Hantavirus pulmonary syndrome (HPS), commonly referred to as hantavirus disease, is a febrile illness characterized by bilateral interstitial pulmonary infiltrates and respiratory compromise usually requiring supplemental oxygen and clinically resembling acute respiratory disease syndrome (ARDS). The typical prodrome consists of fever, chills, myalgia, headache, and gastrointestinal symptoms. Typical clinical laboratory findings include hemoconcentration, left shift in the white blood cell count, neutrophilic leukocytosis, thrombocytopenia, and circulating immunoblasts.

CLINICAL CASE DEFINITION

An illness characterized by one or more of the following clinical features:

- A febrile illness (i.e., temperature greater than 101.0° F [greater than 38.3° C]) corroborated by bilateral diffuse interstitial edema or a clinical diagnosis of acute respiratory distress syndrome (ARDS) or radiographic evidence of noncardiogenic pulmonary edema, or unexplained respiratory illness resulting in death, and occurring in a previously healthy person
- An unexplained respiratory illness resulting in death, with an autopsy examination demonstrating noncardiogenic pulmonary edema without an identifiable cause

LABORATORY CRITERIA FOR DIAGNOSIS

- · Detection of hantavirus-specific immunoglobulin M or rising titers of hantavirus-specific immunoglobulin G, or
- Detection of hantavirus-specific ribonucleic acid sequence by polymerase chain reaction in clinical specimens, or
- Detection of hantavirus antigen by immunohistochemistry

CASE CLASSIFICATION

· Confirmed: a clinically compatible case that is laboratory confirmed

COMMENT

Laboratory testing should be performed or confirmed at a reference laboratory. Because the clinical illness is nonspecific and ARDS is common, a screening case definition can be used to determine which patients to test. In general, a predisposing medical condition (e.g., chronic pulmonary disease, malignancy, trauma, burn, and surgery) is a more likely cause of ARDS than HPS, and patients who have these underlying conditions and ARDS need not be tested for hantavirus.

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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
- Oriemployed other/unknow
- Volunteer
- Other
- Refused
- Unknown