

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

## ZIKA CASE REPORT

PATIENT INFORMATION					
Last Name	First Name	Middle Name	Suffix	Primary Language	
Social Security Number (9 digits)		DOB (mm/dd/yyyy)	Age	<input type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> Other: _____	
Address Number & Street – Residence			Apartment / Unit Number		
City / Town		State	Zip Code		
Census Tract	County of Residence		Country of Residence		
Country of Birth		If not U.S. Born - Date of Arrival in U.S. (mm/dd/yyyy)			
Home Telephone		Cellular Phone / Pager		Work / School Telephone	
E-mail Address		Other Electronic Contact Information			
Work / School Location		Work / School Contact			
Gender <input type="checkbox"/> Female <input type="checkbox"/> Trans female / transwoman <input type="checkbox"/> Genderqueer or non-binary <input type="checkbox"/> Unknown <input type="checkbox"/> Male <input type="checkbox"/> Trans male / transman <input type="checkbox"/> Identity not listed <input type="checkbox"/> Declined to answer					
Pregnant? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			If Yes, Est. Delivery Date (mm/dd/yyyy)		
Medical Record Number			Patient's Parent/Guardian Name		
Occupation Setting (see list on page 9)			Other Describe/Specify		
Occupation (see list on page 9)			Other Describe/Specify		
Race(s) (check all that apply, race descriptions on page 8) 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.					
<input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian (check all that apply, see list on page 8) <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Asian Indian</span> <span><input type="checkbox"/> Korean</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Bangladeshi</span> <span><input type="checkbox"/> Laotian</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Cambodian</span> <span><input type="checkbox"/> Malaysian</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Chinese</span> <span><input type="checkbox"/> Pakistani</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Filipino</span> <span><input type="checkbox"/> Sri Lankan</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Hmong</span> <span><input type="checkbox"/> Taiwanese</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Indonesian</span> <span><input type="checkbox"/> Thai</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Japanese</span> <span><input type="checkbox"/> Vietnamese</span> </div> <input type="checkbox"/> Other: _____					
<input type="checkbox"/> Black or African-American <input type="checkbox"/> Native Hawaiian or Other Pacific Islander (check all that apply, see list on page 8) <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Native Hawaiian</span> <span><input type="checkbox"/> Samoan</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Fijian</span> <span><input type="checkbox"/> Tongan</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Guamanian</span> <span><input type="checkbox"/> Other: _____</span> </div> <input type="checkbox"/> White <input type="checkbox"/> Other: _____ <input type="checkbox"/> Unknown					
ADDITIONAL PATIENT DEMOGRAPHICS					
Sex Assigned at Birth		Sexual Orientation			
<input type="checkbox"/> Female <input type="checkbox"/> Unknown <input type="checkbox"/> Male <input type="checkbox"/> Declined to answer		<input type="checkbox"/> Heterosexual or straight <input type="checkbox"/> Questioning, unsure, or patient doesn't know <input type="checkbox"/> Declined to answer <input type="checkbox"/> Gay, lesbian, or same-gender loving <input type="checkbox"/> Orientation not listed <input type="checkbox"/> Unknown <input type="checkbox"/> Bisexual			
CLINICAL INFORMATION					
Physician Name - Last Name			First Name		Telephone Number

First three letters of patient's last name:

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**SIGNS AND SYMPTOMS**

Symptomatic? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			Onset Date (mm/dd/yyyy)			Date First Sought Medical Care (mm/dd/yyyy)			
Signs / Symptoms	Yes	No	Unk	If Yes, Specify as Noted	Signs / Symptoms	Yes	No	Unk	If Yes, Specify as Noted
Fever				Highest temperature (specify °F/°C)	Diarrhea				Details
Rash				Description of rash	Chills				Details
Conjunctivitis				Details	Cough				Details
Joint pain				Joint(s)	Abdominal pain				Details
Muscle pain				Details	Fatigue				Details
Headache				Details	Bloody semen				Details
Nausea or vomiting				Details	Oral ulcers				Details

Other symptoms (specify)

**GUILLAIN-BARRE SYNDROME**

Does patient have suspected **Guillain-Barre Syndrome** or **weakness**?  
 Yes  No  Unknown

If Yes, please complete questions in this section.

Signs / Symptoms	Yes	No	Unk	If Yes, Specify as Noted
Weakness				Is it symmetric? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
				Is it progressive? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Paralysis				Details
Diminished reflexes				Details

Date of Lumbar Puncture (mm/dd/yyyy)      CSF Protein (highest)      CSF White Blood Cell Count (highest)

Date of Onset of Neurologic Symptoms (mm/dd/yyyy)

Other Potential causes of Guillain-Barré Syndrome (check all that apply)  
 Vaccine: \_\_\_\_\_       Other febrile illness: \_\_\_\_\_  
 Diarrheal illness: \_\_\_\_\_       Other: \_\_\_\_\_

Date of Symptom Onset / Vaccine (mm/dd/yyyy)

**NEWBORN PATIENT INFORMATION**

Is patient a newborn?  
 Yes  No  Unknown

If Yes, please complete questions in this section.

Transmission Mode  
 Perinatal  Transplacental

Vital Status  
 Live birth     Fetal loss     Born alive and died     Unknown  
 (If fetal loss, please attach any autopsy results and/or tissue studies)

Signs / Symptoms	Yes	No	Unk	If Yes, Specify as Noted
Microcephaly				Details
Intracranial calcifications				Details
Newborn hearing screen abnormal				Details
Newborn eye exam abnormal				Details

(continued on page 3)

First three letters of  
patient's last name:

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**NEWBORN PATIENT INFORMATION (continued)**

Brain Imaging Results		Eye Examination Findings	
Gestational Age at Birth (weeks)		Dating by: <input type="checkbox"/> Obstetrical estimate <input type="checkbox"/> Last menstrual period <input type="checkbox"/> Ultrasound <input type="checkbox"/> Newborn examination	
Head Circumference at Birth _____ cm _____ percentile		Length at Birth _____ cm _____ percentile	Birthweight _____ grams _____ percentile
Maternal History	Did mother experience symptoms of Zika during pregnancy? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
	Was mother tested for Zika virus? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If Yes, enter test results	If Yes, did mother test positive for Zika virus? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown

**PREGNANT PATIENT INFORMATION**

Is patient pregnant? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If Yes, please complete questions in this section.	
Has a fetal ultrasound been performed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Date of Ultrasound (mm/dd/yyyy)	Gestational Age at Ultrasound (weeks)
(If Yes, please attach all ultrasound reports)		Fetal Ultrasound Results <input type="checkbox"/> Normal <input type="checkbox"/> Intracranial calcifications <input type="checkbox"/> Microcephaly <input type="checkbox"/> Other findings: _____	
Name of Planned Delivery Hospital		Medical Record Number (if available)	

If pregnancy ended in fetal loss, specify:

 Terminated  Stillbirth  Miscarriage  Unknown**PAST MEDICAL HISTORY**

Has the patient been previously diagnosed with dengue? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Date of Diagnosis (mm/dd/yyyy)	
Has the patient been vaccinated for yellow fever? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Has the patient been vaccinated for Japanese encephalitis virus? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Has the patient had a pregnancy complicated by suspected Zika infection? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If Yes, specify complications (check all that apply) <input type="checkbox"/> Fetal loss <input type="checkbox"/> Microcephaly <input type="checkbox"/> Positive test for Zika infection <input type="checkbox"/> Perinatal death <input type="checkbox"/> Intracranial calcifications <input type="checkbox"/> Fetus with central nervous system malformation (disorder) <input type="checkbox"/> Live birth <input type="checkbox"/> Fetal growth abnormality <input type="checkbox"/> Other (specify): _____	
Please attach related results including MRI/CT scan, autopsy results.			

**HOSPITALIZATION**

Did patient visit emergency room for illness? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Was patient hospitalized? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If Yes, how many total hospital nights?	
If there were any ER visits or hospital stays related to this illness, specify details below. Include hospital where delivery occurred for all infants and post-partum patients.					

**HOSPITALIZATION - DETAILS**

Hospital Name 1	Street Address			Admission Date (mm/dd/yyyy)	
	City			Discharge / Transfer Date (mm/dd/yyyy)	
	State	Zip Code	Telephone Number	Medical Record Number	Discharge Diagnosis
Hospital Name 2	Street Address			Admission Date (mm/dd/yyyy)	
	City			Discharge / Transfer Date (mm/dd/yyyy)	
	State	Zip Code	Telephone Number	Medical Record Number	Discharge Diagnosis

First three letters of patient's last name:

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**OUTCOME**

Outcome? <input type="checkbox"/> Survived <input type="checkbox"/> Died <input type="checkbox"/> Unknown	If Survived, Survived as of _____ (mm/dd/yyyy)	Date of Death (mm/dd/yyyy)
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**LABORATORY INFORMATION**

**LABORATORY RESULTS SUMMARY**

Specimen Type 1 <input type="checkbox"/> Serum <input type="checkbox"/> Urine <input type="checkbox"/> CSF <input type="checkbox"/> Umbilical cord blood <input type="checkbox"/> Amniotic fluid <input type="checkbox"/> Other: _____	Laboratory Type <input type="checkbox"/> State PH lab <input type="checkbox"/> Local PH lab <input type="checkbox"/> Commercial lab <input type="checkbox"/> CDC lab <input type="checkbox"/> Blood bank lab <input type="checkbox"/> Other (specify): _____		
	Type of Test <input type="checkbox"/> PCR <input type="checkbox"/> ELISA-IgM <input type="checkbox"/> IFA-IgM <input type="checkbox"/> NAT (blood bank) <input type="checkbox"/> PRNT <input type="checkbox"/> Other (specify): _____		
	Interpretation <input type="checkbox"/> Positive <input type="checkbox"/> Equivocal <input type="checkbox"/> Negative <input type="checkbox"/> Indeterminate	Arbovirus Tested <input type="checkbox"/> Chikungunya <input type="checkbox"/> Saint Louis encephalitis <input type="checkbox"/> Zika <input type="checkbox"/> Dengue <input type="checkbox"/> West Nile	
	Collection Date (mm/dd/yyyy)	Results	
	Laboratory Name		Telephone Number

Specimen Type 2 <input type="checkbox"/> Serum <input type="checkbox"/> Urine <input type="checkbox"/> CSF <input type="checkbox"/> Umbilical cord blood <input type="checkbox"/> Amniotic fluid <input type="checkbox"/> Other: _____	Laboratory Type <input type="checkbox"/> State PH lab <input type="checkbox"/> Local PH lab <input type="checkbox"/> Commercial lab <input type="checkbox"/> CDC lab <input type="checkbox"/> Blood bank lab <input type="checkbox"/> Other (specify): _____		
	Type of Test <input type="checkbox"/> PCR <input type="checkbox"/> ELISA-IgM <input type="checkbox"/> IFA-IgM <input type="checkbox"/> NAT (blood bank) <input type="checkbox"/> PRNT <input type="checkbox"/> Other (specify): _____		
	Interpretation <input type="checkbox"/> Positive <input type="checkbox"/> Equivocal <input type="checkbox"/> Negative <input type="checkbox"/> Indeterminate	Arbovirus Tested <input type="checkbox"/> Chikungunya <input type="checkbox"/> Saint Louis encephalitis <input type="checkbox"/> Zika <input type="checkbox"/> Dengue <input type="checkbox"/> West Nile	
	Collection Date (mm/dd/yyyy)	Results	
	Laboratory Name		Telephone Number

Specimen Type 3 <input type="checkbox"/> Serum <input type="checkbox"/> Urine <input type="checkbox"/> CSF <input type="checkbox"/> Umbilical cord blood <input type="checkbox"/> Amniotic fluid <input type="checkbox"/> Other: _____	Laboratory Type <input type="checkbox"/> State PH lab <input type="checkbox"/> Local PH lab <input type="checkbox"/> Commercial lab <input type="checkbox"/> CDC lab <input type="checkbox"/> Blood bank lab <input type="checkbox"/> Other (specify): _____		
	Type of Test <input type="checkbox"/> PCR <input type="checkbox"/> ELISA-IgM <input type="checkbox"/> IFA-IgM <input type="checkbox"/> NAT (blood bank) <input type="checkbox"/> PRNT <input type="checkbox"/> Other (specify): _____		
	Interpretation <input type="checkbox"/> Positive <input type="checkbox"/> Equivocal <input type="checkbox"/> Negative <input type="checkbox"/> Indeterminate	Arbovirus Tested <input type="checkbox"/> Chikungunya <input type="checkbox"/> Saint Louis encephalitis <input type="checkbox"/> Zika <input type="checkbox"/> Dengue <input type="checkbox"/> West Nile	
	Collection Date (mm/dd/yyyy)	Results	
	Laboratory Name		Telephone Number

**LABORATORY RESULTS SUMMARY - OTHER**

Hematology <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Date Collected (mm/dd/yyyy)	WBC	HCT	Hb	Platelets
Other laboratory diagnostics performed (e.g., IHC, virus isolation)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			If Yes, describe		

First three letters of patient's last name:

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<b>EPIDEMIOLOGIC INFORMATION</b>					
<b>ZIKA CONDITION CODE</b>					
<i>Zika Condition Code</i>					
<input type="checkbox"/> Non-congenital Zika virus disease (symptomatic)		<input type="checkbox"/> Non-congenital Zika virus disease (asymptomatic)			
<input type="checkbox"/> Congenital Zika virus disease (symptomatic)		<input type="checkbox"/> Congenital Zika virus disease (asymptomatic)			
<b>INCUBATION PERIOD: UP TO 14 DAYS BEFORE ILLNESS ONSET</b>					
<b>BLOOD AND ORGAN DONATION (Please attach the Report of Zika Virus Positive Blood Donor form)</b>					
Did patient <b>donate blood</b> during the incubation period?			Did patient <b>donate an organ</b> during the incubation period?		
<input type="checkbox"/> Yes, Date: _____ <input type="checkbox"/> No <input type="checkbox"/> Unknown			<input type="checkbox"/> Yes, Date: _____ <input type="checkbox"/> No <input type="checkbox"/> Unknown		
Did patient <b>receive a blood transfusion</b> during the incubation period?			Did patient <b>receive an organ transplant</b> during the incubation period?		
<input type="checkbox"/> Yes, Date: _____ <input type="checkbox"/> No <input type="checkbox"/> Unknown			<input type="checkbox"/> Yes, Date: _____ <input type="checkbox"/> No <input type="checkbox"/> Unknown		
<b>TRAVEL HISTORY</b>					
Did patient travel <b>outside of county of residence</b> during the incubation period?			Has the patient traveled <b>outside of California</b> during the incubation period?		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
Has the patient traveled <b>outside the U.S.</b> during the incubation period?			If Yes for any of these questions, specify all locations and dates below.		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
<b>TRAVEL HISTORY – DETAILS</b>					
<b>Travel Type</b>	<b>State</b>	<b>Country</b>	<b>Other location details (city, resort, etc.)</b>	<b>Date Travel Started (mm/dd/yyyy)</b>	<b>Date Travel Ended (mm/dd/yyyy)</b>
<input type="checkbox"/> Domestic <input type="checkbox"/> Unknown <input type="checkbox"/> International					
<input type="checkbox"/> Domestic <input type="checkbox"/> Unknown <input type="checkbox"/> International					
<input type="checkbox"/> Domestic <input type="checkbox"/> Unknown <input type="checkbox"/> International					
<b>EXPOSURES / RISK FACTORS – MOSQUITO BITE</b>					
Did patient recall any mosquito bites during the incubation period?			If Yes, specify all locations and dates below.		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
<b>BITE HISTORY - DETAILS</b>					
<b>Location (city, county, state, country)</b>				<b>Date Mosquito Bite (mm/dd/yyyy)</b>	
<b>EXPOSURES / RISK FACTORS – SEXUAL HISTORY</b>					
Has the patient had any unprotected (condomless) oral, vaginal, or anal sex in the 6 months prior to Zika diagnosis?			If No, skip to "Other Suspected Exposures"		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
Does the patient have any of the following:					
One or more sex partner(s) who has tested positive for Zika virus?			One or more sex partner(s) with symptoms of Zika virus without another reason for those symptoms?		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
Suspected sexually-acquired Zika infection?					
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
If Yes to any of the above, please contact CDPH to complete the supplemental sexual history form.					

First three letters of patient's last name:

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**EXPOSURES / RISK FACTORS – OTHER SUSPECTED EXPOSURES**

Are any other exposures suspected? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If Yes, specify other exposure details	
	Date of Other Exposure (mm/dd/yyyy)	Other Exposure Location
Suspected local acquisition of Zika infection (i.e., no travel to any area with known Zika transmission)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If Yes, specify suspected local acquisition details	
	Date of Suspected Local Acquisition (mm/dd/yyyy)	Suspected Local Acquisition Location

**NOTES / REMARKS**

**REPORTING AGENCY**

Investigator Name	Local Health Jurisdiction	Telephone Number	Date (mm/dd/yyyy)
First Reported By <input type="checkbox"/> Clinician <input type="checkbox"/> Laboratory <input type="checkbox"/> Other (specify): _____			

**DISEASE CASE CLASSIFICATION**

Case Classification (see case definition on page 7)  
 Confirmed  Probable

**STATE USE ONLY**

Case Classification  
 Confirmed  Probable  Not a case  Need additional information

First three letters of  
patient's last name:

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**CASE DEFINITION****ZIKA VIRUS DISEASE AND ZIKA VIRUS INFECTION (2016)**(adapted from the 2016 CSTE case definition: <https://ndc.services.cdc.gov/case-definitions/zika-virus-disease-and-zika-virus-infection-2016-06-01/>)**SUBTYPES**

- Zika virus disease, congenital
- Zika virus disease, non-congenital
- Zika virus infection, congenital
- Zika virus infection, non-congenital

**LABORATORY CRITERIA FOR DIAGNOSIS****Recent Zika virus (ZIKV) infection**

- Culture of ZIKV from blood, body fluid, or tissue; **OR**
- Detection of ZIKV antigen or viral ribonucleic acid (RNA) in serum, cerebrospinal fluid (CSF), placenta, umbilical cord, fetal tissue, or other specimen (e.g., amniotic fluid, urine, semen, saliva); **OR**
- Positive ZIKV immunoglobulin M (IgM) antibody test in serum or CSF **with** positive ZIKV neutralizing antibody titers and negative neutralizing antibody titers against dengue or other flaviviruses endemic to the region where exposure occurred

**Recent flavivirus infection, possible ZIKV**

- Positive ZIKV IgM antibody test of serum or CSF with positive neutralizing antibody titers against ZIKV and dengue virus or other flaviviruses endemic to the region where exposure occurred; **OR**
- Positive ZIKV IgM antibody test **AND** negative dengue virus IgM antibody test with no neutralizing antibody testing performed

**EPIDEMIOLOGIC LINKAGE**

- Resides in or recent travel to an area with known ZIKV transmission; **OR**
- Sexual contact with a confirmed or probable case within the infection transmission risk window of ZIKV infection or person with recent travel to an area with known Zika transmission; **OR**
- Receipt of organs, tissues, blood, or blood products within 30 days of symptom onset; **OR**
- Association in time and place with a confirmed or probable Zika case; **OR**
- Likely vector exposure in an area with suitable seasonal and ecological conditions for potential local vectorborne transmission.

**ZIKA VIRUS DISEASE, CONGENITAL****CLINICAL CRITERIA**

Liveborn infant with congenital microcephaly, or intracranial calcifications, or structural brain or eye abnormalities, or other congenital central nervous system-related abnormalities not explained by another etiology. (As part of the complete evaluation of congenital microcephaly or other central nervous system [CNS] birth defects, testing for other congenital infections such as syphilis, toxoplasmosis, rubella, cytomegalovirus infection, lymphocytic choriomeningitis virus infection, and herpes simplex virus infections should be considered. An assessment of potential genetic and other teratogenic causes of the congenital anomalies should also be performed).

**CASE CLASSIFICATION****Probable**

A neonate meets clinical criteria for congenital disease; **AND**

The neonate's mother has an epidemiologic linkage or meets laboratory criteria for recent ZIKV or flavivirus infection; **AND**

The neonate has laboratory evidence of ZIKV or flavivirus infection by:

- Positive ZIKV IgM antibody test of serum or CSF collected within 2 days of birth; **AND**
  - Positive neutralizing antibody titers against ZIKV and dengue or other flaviviruses endemic to the region where exposure occurred; **OR**
  - Negative dengue virus IgM antibody test and no neutralizing antibody test performed.

**Confirmed**

A neonate meets clinical criteria for congenital disease **AND** meets one of the following laboratory criteria:

- ZIKV detection by culture, viral antigen, or viral RNA in fetal tissue, umbilical cord blood, or amniotic fluid; or serum, CSF, or urine collected within 2 days of birth; **OR**
- Positive ZIKV IgM antibody test of umbilical cord blood, neonatal serum, or CSF collected within 2 days of birth **with** positive ZIKV neutralizing antibody titers and negative neutralizing antibody titers against dengue or other flaviviruses endemic to the region where exposure occurred.

(continued on page 8)

First three letters of  
patient's last name:

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**CASE DEFINITION (continued)****ZIKA VIRUS DISEASE, NON-CONGENITAL****CLINICAL CRITERIA**

A person with one or more of the following not explained by another etiology:

- Clinically compatible illness that includes:
  - Acute onset of fever (measured or reported), **OR**
  - Maculopapular rash, **OR**
  - Arthralgia, **OR**
  - Conjunctivitis
- Complication of pregnancy
  - Fetal loss; **OR**
  - Fetus or neonate with congenital microcephaly, congenital intracranial calcifications, or other structural brain or eye abnormalities, or other congenital central nervous system-related abnormalities including defects such as clubfoot or multiple joint contractures
- Guillain-Barré syndrome or other neurological manifestations

**CASE CLASSIFICATION****Probable**Meets clinical criteria for non-congenital disease; **AND**Has an epidemiologic linkage; **AND**

Has laboratory evidence of ZIKV or flavivirus infection by:

- Positive ZIKV IgM antibody test of serum or CSF with:
  - Positive neutralizing antibody titers against ZIKV and dengue or other flaviviruses endemic to the region where exposure occurred; **OR**
  - Negative dengue virus IgM antibody test and no neutralizing antibody test performed.

**Confirmed**Meets clinical criteria for non-congenital disease; **AND**

Has laboratory evidence of recent ZIKV infection by:

- Detection of ZIKV by culture, viral antigen or viral RNA in serum, CSF, tissue, or other specimen (e.g., amniotic fluid, urine, semen, saliva); **OR**
- Positive ZIKV IgM antibody test of serum or CSF **with** positive ZIKV neutralizing antibody titers and negative neutralizing antibody titers against dengue or other flaviviruses endemic to the region where exposure occurred.

**ZIKA VIRUS INFECTION, CONGENITAL****CASE CLASSIFICATION****Probable**A neonate who does not meet clinical criteria for congenital disease; **BUT**The neonate's mother has an epidemiologic linkage or meets laboratory criteria for recent ZIKV or flavivirus infection; **AND**

The neonate has laboratory evidence of ZIKV or flavivirus infection by:

- Positive ZIKV IgM antibody test of serum or CSF collected within 2 days of birth; **AND**
  - Positive neutralizing antibody titers against ZIKV and dengue or other flaviviruses endemic to the region where exposure occurred; **OR**
  - Negative dengue virus IgM antibody test and no neutralizing antibody test performed.

**Confirmed**A neonate who does not meet clinical criteria for congenital disease: **BUT**

The neonate has laboratory evidence of recent ZIKV or flavivirus infection by:

- ZIKV detection by culture, viral antigen, or viral RNA in fetal tissue, umbilical cord blood, or amniotic fluid; or neonatal serum, CSF, or urine collected within 2 days of birth; **OR**
- Positive ZIKV IgM antibody test of umbilical cord blood, neonatal serum, or CSF collected within 2 days of birth **with** positive ZIKV neutralizing antibody titers and negative neutralizing antibody titers against dengue or other flaviviruses endemic to the region where exposure occurred.

*(continued on page 9)*



First three letters of patient's last name:

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**CASE DEFINITION (continued)**

**ZIKA VIRUS INFECTION, NON-CONGENITAL**

**CASE CLASSIFICATION**

**Probable**

A person who does not meet clinical criteria for non-congenital disease; **BUT**

Has an epidemiologic linkage; **AND**

Has laboratory evidence of ZIKV or flavivirus infection by:

- Positive ZIKV IgM antibody test of serum or CSF with:
  - Positive neutralizing antibody titers against ZIKV and dengue or other flaviviruses endemic to the region where exposure occurred; **OR**
  - Negative dengue virus IgM antibody test and no neutralizing antibody test performed.

**Confirmed**

A person who does not meet clinical criteria for non-congenital disease; **AND**

Has laboratory evidence of recent ZIKV infection by:

- Detection of ZIKV by culture, viral antigen or viral RNA in serum, CSF, tissue, or other specimen (e.g., amniotic fluid, urine, semen, saliva); **OR**
- Positive ZIKV IgM antibody test of serum or CSF **with** positive ZIKV neutralizing antibody titers and negative neutralizing antibody titers against dengue or other flaviviruses endemic to the region where exposure occurred.

**COMMENT**

**Rule Out Dengue Testing**

The differential diagnosis of Zika virus infection varies based on place of residence, travel history, and exposures. Zika, dengue and chikungunya viruses are transmitted by the same mosquitoes and have similar clinical features. These three viruses can circulate in the same area and can cause occasional co-infections in the same patient. Zika virus is more likely to cause fever with maculopapular rash, arthralgia, or conjunctivitis, chikungunya virus infection is more likely to cause high fever, severe arthralgia, arthritis, rash, and lymphopenia, while dengue virus infection is more likely to cause neutropenia, thrombocytopenia, hemorrhage, shock, and death. It is important to rule out dengue virus infection because proper clinical management of dengue can improve outcome.

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).
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	
<ul style="list-style-type: none"> <li>• Bangladeshi</li> <li>• Bhutanese</li> <li>• Burmese</li> <li>• Cambodian</li> <li>• Chinese</li> </ul>	<ul style="list-style-type: none"> <li>• Filipino</li> <li>• Hmong</li> <li>• Indian</li> <li>• Indonesian</li> <li>• Iwo Jiman</li> </ul>
<ul style="list-style-type: none"> <li>• Japanese</li> <li>• Korean</li> <li>• Laotian</li> <li>• Madagascar</li> <li>• Malaysian</li> </ul>	<ul style="list-style-type: none"> <li>• Maldivian</li> <li>• Nepalese</li> <li>• Okinawan</li> <li>• Pakistani</li> <li>• Singaporean</li> </ul>
<ul style="list-style-type: none"> <li>• Sri Lankan</li> <li>• Taiwanese</li> <li>• Thai</li> <li>• Vietnamese</li> </ul>	
NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER GROUPS	
<ul style="list-style-type: none"> <li>• Carolinian</li> <li>• Chamorro</li> <li>• Chuukese</li> <li>• Fijian</li> <li>• Guamanian</li> </ul>	<ul style="list-style-type: none"> <li>• Kiribati</li> <li>• Kosraean</li> <li>• Mariana Islander</li> <li>• Marshallese</li> <li>• Melanesian</li> </ul>
<ul style="list-style-type: none"> <li>• Micronesian</li> <li>• Native Hawaiian</li> <li>• New Hebrides</li> <li>• Palauan</li> <li>• Papua New Guinean</li> </ul>	<ul style="list-style-type: none"> <li>• Pohnpeian</li> <li>• Polynesian</li> <li>• Saipanese</li> <li>• Samoan</li> <li>• Solomon Islander</li> </ul>
<ul style="list-style-type: none"> <li>• Tahitian</li> <li>• Tokelauan</li> <li>• Tongan</li> <li>• Yapese</li> </ul>	

First three letters of patient's last name:

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**OCCUPATION SETTING**

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| <ul style="list-style-type: none"> <li>• Childcare/Preschool</li> <li>• Correctional Facility</li> <li>• Drug Treatment Center</li> <li>• Food Service</li> <li>• Health Care - Acute Care Facility</li> <li>• Health Care - Long Term Care Facility</li> <li>• Health Care - Other</li> </ul> | <ul style="list-style-type: none"> <li>• Homeless Shelter</li> <li>• Laboratory</li> <li>• Military Facility</li> <li>• Other Residential Facility</li> <li>• Place of Worship</li> <li>• School</li> <li>• Other</li> </ul> |
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**OCCUPATION**

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| <ul style="list-style-type: none"> <li>• Agriculture - farmworker or laborer (crop, nursery, or greenhouse)</li> <li>• Agriculture - field worker</li> <li>• Agriculture - migratory/seasonal worker</li> <li>• Agriculture - other/unknown</li> <li>• Animal - animal control worker</li> <li>• Animal - farm worker or laborer (farm or ranch animals)</li> <li>• Animal - veterinarian or other animal health practitioner</li> <li>• Animal - other/unknown</li> <li>• Clerical, office, or sales worker</li> <li>• Correctional facility - employee</li> <li>• Correctional facility - inmate</li> <li>• Craftsman, foreman, or operative</li> <li>• Daycare or child care attendee</li> <li>• Daycare or child care worker</li> <li>• Dentist or other dental health worker</li> <li>• Drug dealer</li> <li>• Fire fighting or prevention worker</li> <li>• Flight attendant</li> <li>• Food service - cook or food preparation worker</li> <li>• Food service - host or hostess</li> <li>• Food service - waiter or waitress</li> <li>• Food service - other/unknown</li> <li>• Homemaker</li> <li>• Laboratory technologist or technician</li> <li>• Laborer - private household or unskilled worker</li> <li>• Manager, official, or proprietor</li> <li>• Manicurist or pedicurist</li> <li>• Medical - emergency medical technician or paramedic</li> <li>• Medical - health care worker</li> </ul> | <ul style="list-style-type: none"> <li>• Medical - medical assistant</li> <li>• Medical - pharmacist</li> <li>• Medical - physician assistant or nurse practitioner</li> <li>• Medical - physician or surgeon</li> <li>• Medical - registered nurse</li> <li>• Medical - other/unknown</li> <li>• Military - officer</li> <li>• Military - recruit or trainee</li> <li>• Protective service - police officer</li> <li>• Protective service - other</li> <li>• Professional, technical, or related profession</li> <li>• Retired</li> <li>• Sex worker</li> <li>• Student - preschool or kindergarten</li> <li>• Student - elementary or middle school</li> <li>• Student - high (secondary) school</li> <li>• Student - college or university</li> <li>• Student - other/unknown</li> <li>• Teacher/employee - preschool or kindergarten</li> <li>• Teacher/employee - elementary or middle school</li> <li>• Teacher/employee - high (secondary) school</li> <li>• Teacher/instructor/employee - college or university</li> <li>• Teacher/instructor/employee - other/unknown</li> <li>• Unemployed - seeking employment</li> <li>• Unemployed - not seeking employment</li> <li>• Unemployed - other/unknown</li> <li>• Other</li> <li>• Refused</li> <li>• Unknown</li> </ul> |
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