

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 10)			Other Describe/Specify		
Occupation (see list on page 10)			Other Describe/Specify		
ADDITIONAL PATIENT DEMOGRAPHICS					
Sex Assigned at Birth <input type="checkbox"/> Female <input type="checkbox"/> Unknown <input type="checkbox"/> Male <input type="checkbox"/> Declined to answer		Sexual Orientation <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	

- Ethnicity (check one)**  
 Hispanic/Latino  
 Non-Hispanic/Non-Latino  
 Unknown
- Race(s)**  
*(check all that apply, race descriptions on page 9)*  
 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.
- American Indian or Alaska Native
  - Asian *(check all that apply, see list on page 9)*
    - Asian Indian    Korean
    - Bangladeshi    Laotian
    - Cambodian    Malaysian
    - Chinese    Pakistani
    - Filipino    Sri Lankan
    - Hmong    Taiwanese
    - Indonesian    Thai
    - Japanese    Vietnamese
  - Other: \_\_\_\_\_
  - Black or African-American
  - Native Hawaiian or Other Pacific Islander *(check all that apply, see list on page 9)*
    - Native Hawaiian    Samoan
    - Fijian    Tongan
    - Guamanian
    - Other: \_\_\_\_\_
  - White
  - Other: \_\_\_\_\_
  - Unknown

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 <input type="checkbox"/> Perinatal <input type="checkbox"/> Transplacental	Vital Status <input type="checkbox"/> Live birth <input type="checkbox"/> Fetal loss <input type="checkbox"/> Born alive and died <input type="checkbox"/> Unknown (If fetal loss, please attach any autopsy results and/or tissue studies)
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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)

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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: <input type="checkbox"/> Terminated <input type="checkbox"/> Stillbirth <input type="checkbox"/> Miscarriage <input type="checkbox"/> 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		

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<b>EPIDEMIOLOGIC INFORMATION</b>					
<b>ZIKA CONDITION CODE</b>					
<i>Zika Condition Code</i>					
<input type="checkbox"/> Congenital Zika virus disease (symptomatic)					
<input type="checkbox"/> Non-congenital Zika virus disease (symptomatic)					
<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>					
<i>Did patient <b>donate blood</b> during the incubation period?</i>			<i>Did patient <b>donate an organ</b> during the incubation period?</i>		
<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		
<i>Did patient <b>receive a blood transfusion</b> during the incubation period?</i>			<i>Did patient <b>receive an organ transplant</b> during the incubation period?</i>		
<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>					
<i>Did patient travel <b>outside of county of residence</b> during the incubation period?</i>			<i>Has the patient traveled <b>outside of California</b> during the incubation period?</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
<i>Has the patient traveled <b>outside the U.S.</b> during the incubation period?</i>			<i>If Yes for any of these questions, specify all locations and dates below.</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
<b>TRAVEL HISTORY – DETAILS</b>					
Travel Type	State	Country	Other location details (city, resort, etc.)	Date Travel Started (mm/dd/yyyy)	Date Travel Ended (mm/dd/yyyy)
<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>					
<i>Did patient recall any mosquito bites during the incubation period?</i>			<i>If Yes, specify all locations and dates below.</i>		
<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>					
<i>Has the patient had any unprotected (condomless) oral, vaginal, or anal sex in the 6 months prior to Zika diagnosis?</i>			<i>If No, skip to "Other Suspected Exposures"</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
<i>Does the patient have any of the following:</i>					
<i>One or more sex partner(s) who has tested positive for Zika virus?</i>			<i>One or more sex partner(s) with symptoms of Zika virus without another reason for those symptoms?</i>		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
<i>Suspected sexually-acquired Zika infection?</i>					
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
<i>If Yes to any of the above, please contact CDPH to complete the supplemental sexual history form.</i>					

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

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**CASE DEFINITION****ZIKA VIRUS DISEASE (2024)**(adapted from the 2024 CSTE case definition: <https://ndc.services.cdc.gov/case-definitions/zika-virus-disease/>)**SUBTYPES**

- Congenital Zika Virus Disease
- Non-congenital Zika Virus Disease

**EPIDEMIOLOGIC LINKAGE**

- Resided in or traveled to an area with a risk of Zika virus transmission in the 14 days before the onset of symptoms, in the 28 days before the onset of Guillain-Barré syndrome, or during pregnancy; **OR**
- Laboratory exposure to Zika virus before onset of symptoms or during pregnancy; **OR**
- Receipt of blood, blood products, organ transplant, or tissue transplant within 30 days of symptom onset or during pregnancy from a person who has either been diagnosed with Zika virus infection or returned from traveling to an area with risk of Zika virus transmission; **OR**
- Sexual contact, within 14 days of symptom onset or during pregnancy, with a person who in the last 90 days has either been diagnosed with Zika virus infection or has returned from traveling to an area with a risk of Zika virus transmission.

**CRITERIA TO DISTINGUISH A NEW CASE FROM AN EXISTING CASE**

A person not previously enumerated as a case that meets the confirmed or probable case classification.

Note: Infection with Zika virus is expected to provide lifelong immunity. However, in persons who are severely immunocompromised, viral persistence following infection may occur, which can lead to persistent disease. Immunocompromised individuals may also be vulnerable to reinfection with Zika virus.

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

To meet the clinical criteria for congenital Zika virus disease, the liveborn infant must not have an identified genetic or other cause for the findings, including a positive test for another likely etiology<sup>†</sup>, and should have one or more of the following brain or eye anomalies or neurological sequelae specific for congenital Zika virus disease and typically identifiable in the neonatal period:

- Microcephaly (occipital frontal circumference >2 standard deviations below the mean for age and sex) at birth or postnatal onset,
- cortical hypoplasia or abnormal gyral patterns (polymicrogyria, lissencephaly, heterotopia),
- increased volume of cerebrospinal fluid (CSF) (hydrocephalus ex vacuo, unspecified hydrocephalus, ventriculomegaly) due to loss of brain parenchyma,
- intracranial calcifications (most commonly between the cortex and subcortex),
- congenital contractures of major joints (arthrogryposis) associated with structural brain anomalies,
- congenital paralysis of the diaphragm associated with structural brain anomalies,
- corpus callosum agenesis/hypoplasia,
- cerebellar hypoplasia,
- scarring of the macula with coarse deposits of pigment in the retina (focal retinal pigmentary mottling), **OR**
- other structural eye anomalies (microphthalmia, cataracts, chorioretinal atrophy, optic nerve hypoplasia).

<sup>†</sup>**Other clinical considerations for congenital Zika virus disease:** Among congenital infections, cytomegalovirus infection has clinical findings most consistent with Zika virus infection and should be ruled out by diagnostic testing. While other infectious etiologies (e.g., rubella virus, varicella zoster virus, herpes simplex virus, lymphocytic choriomeningitis virus, Toxoplasma gondii, or Treponema pallidum) have clinical findings less consistent with congenital Zika virus disease, testing for these infections should be considered as part of the complete evaluation for congenital disease.

**LABORATORY CRITERIA****Confirmatory laboratory evidence**

- Detection of Zika virus, viral antigen, or viral RNA in infant CSF, blood, urine, or postmortem tissue<sup>‡</sup>; **OR**
- Detection of anti-Zika virus IgM antibodies in infant CSF or blood<sup>‡</sup>, with positive anti-Zika virus-specific neutralizing antibody titers.

**Presumptive laboratory evidence**

- Detection of Zika virus, viral antigen, or viral RNA in amniotic fluid, placenta, umbilical cord, or cord blood<sup>‡</sup>; **OR**
- Detection of anti-Zika virus IgM antibodies in infant CSF or blood, collected within 4 weeks after birth, with no neutralizing antibody testing performed.

Note: The categorical labels used here to stratify laboratory evidence are intended to support the standardization of case classifications for public health surveillance. The categorical labels should not be used to interpret the utility or validity of any laboratory test methodology.

<sup>‡</sup>To prevent misclassifying postnatal Zika virus infections as congenital cases, in Zika virus endemic areas specimens should be collected within 4 weeks after birth.

(continued on page 8)

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**CASE DEFINITION (continued)****CASE CLASSIFICATION****Probable**

- Meets the clinical criteria for congenital Zika virus disease, **AND**
- Meets presumptive laboratory criteria for congenital Zika virus disease, **AND**
- Whose gestational parent meets:
  - epidemiologic linkage criteria, **OR**
  - confirmatory laboratory criteria for non-congenital Zika virus disease during this pregnancy.

**Confirmed**

- Meets the clinical criteria for congenital Zika virus disease, **AND**
- Meets confirmatory laboratory criteria for congenital Zika virus disease, **AND**
- Whose gestational parent meets:
  - epidemiologic linkage criteria, **OR**
  - confirmatory laboratory criteria for non-congenital Zika virus disease during this pregnancy.

**NON-CONGENITAL ZIKA VIRUS DISEASE****CLINICAL CRITERIA**

To meet the clinical criteria for non-congenital Zika virus disease, the person should have one or more of the following not explained by another etiology.

- Acute onset of one or more of the following symptoms: fever (measured or reported), generalized rash, arthralgia, or non-purulent conjunctivitis,
- Guillain-Barré syndrome,
- Loss of a fetus at greater or equal to 20 weeks gestation.

**LABORATORY CRITERIA****Confirmatory laboratory evidence**

- Detection of Zika virus, viral antigen, or viral RNA in a body fluid or tissue; **OR**
- Detection of anti-Zika virus IgM antibodies in blood or CSF, with positive Zika virus-specific neutralizing antibody titers and negative neutralizing antibody titers against dengue or other flaviviruses endemic to the region where exposure occurred

**Presumptive laboratory evidence**

- Detection of anti-Zika virus IgM antibodies in blood or CSF with a negative anti-dengue virus IgM antibody test in the same specimen with no neutralizing antibody testing performed; **OR**
- Four-fold or greater rise in anti-Zika virus-specific neutralizing antibody titers in paired blood specimens; **OR**
- In the setting of a Zika virus outbreak with minimal circulation of other endemic flaviviruses, detection of anti-Zika virus IgM antibodies in blood or CSF.

Note: If Zika and dengue virus IgM antibodies are detected and neutralizing antibodies are unable to differentiate flaviviruses, consider reporting as Flavivirus disease, not otherwise specified (See ArboNET Surveillance Guide).

**CASE CLASSIFICATION****Probable**

Meets the epidemiologic linkage criteria, and clinical and presumptive laboratory criteria for non-congenital Zika virus disease.

**Confirmed**

Meets the epidemiologic linkage criteria, and clinical and confirmatory laboratory criteria for non-congenital Zika virus disease.

**COMMENT****Rule Out Dengue**

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. Zika and dengue viruses are closely related flaviviruses and antibodies to one virus can cross-react to the other in serological testing. It is important to rule out dengue virus infection because proper clinical management of dengue can improve outcome.



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

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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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