

CASE ID:	Reporting Jurisdiction:
(Please enter the case ID as assigned by your jurisdiction)	
rease enter the case id as assigned by your jurisdiction)	

Dengue Case Investigation Form

NOTES: Enter dates as MM/DD/YYYY unless otherwise specified, Guidance, see page 6

This form includes a combination of variables that are reported to ArboNET (the national arbovirus surveillance system) and optional variables that may be helpful for case investigations but are not reportable to CDC. The optional variables are clearly indicated in marked sections.

PATIENT INFORMATION							
Date of birth (YYYY/MM/DD):	Age:	years me	onths	Sex:	Male	Female	Unknown
Country of birth: Country of usual residence:							
State of residence:		County of	residence:				
Zip Code of residence:							
Race (check all that apply): American Indian/Alaska Native Asian	Black/African America Native Hawaiian/Pacif		White Unknown	_	Other, specify	:	
Ethnicity: Hispanic or Latino	Not Hispanic or Latino	Unknown	Other, spe	cify:			
	OPTIONAL VAI	RIABLES FOR	IURISDICTION	USE			
Last name:			First name	e:			
Patient email:			Patient phone: _				
	CLIN	UCAL INFOR	MATION				
	CLIN	NICAL INFOR	MATION				
Date of illness onset:	Was the patient hospit	alized?	es No		Unknown		
Did the patient die from this illness?	Yes No	Unknown	Dat	te of d	eath:		
	OPTIONAL VAI	RIABLES FOR .	IURISDICTION	USE			
Physician name:					Physician	phone:	
Hospital or clinic name:							
Date of first evaluation by healthcare pr	rovider:	If hospitalized, a	dmission date: _		Dischar	ge date:	
	EPIDEMI	OLOGICAL IN	IFORMATION	J			
Where was this illness acquired? Pleas					risdiction in the	past 14 days	s prior to
illness onset?) International Imported, but not able to determine source state and/or country Indigenous, within jurisdiction (locally acquired) Out of state In state, out of jurisdiction Unknown							
Imported Cases							
If this case was imported (Acquired out of	of country or state), please	list all countries o	r states visited du	ıring th	ne 14 days befo	re symptom	onset.
What was the country of origin of the in	fection?						
Other country 1:		Other	country 2:				
Other country 3:							
Other country, specify:							
OR, What was the U.S. state/territory o	f origin of the infection?						
Other state/territory 1:		Other state/territo	ry 2:				
Other state/territory 3:		Other state/territo	ry, specify:				

CLINICAL SIGNS AND SYMPTOMS			
Dengue-like illness (Condition Code 11704)			
Fever	Yes	No	Unknown
Dengue (Fever plus any of the following; Condition Code 10680)			
Headache	Yes	No	Unknown
Myalgia (muscle pain)	Yes	No	Unknown
Arthralgia (joint pain)	Yes	No	Unknown
Pain behind the eyes	Yes	No	Unknown
Rash	Yes	No	Unknown
Nausea/vomiting	Yes	No	Unknown
Leukopenia (defined as the total white blood cell count <5000mm3)	Yes	No	Unknown
Positive tourniquet test	Yes	No	Unknown
Warning Signs			
Abdominal pain or tenderness	Yes	No	Unknown
Persistent vomiting (e.g., ≥ 3 episodes in 1 hr or ≥4 in 6 hrs)	Yes	No	Unknown
Extravascular fluid accumulation (pleural effusion, ascites, or pericardial effusion, etc.)	Yes	No	Unknown
Mucosal bleeding (e.g. gums, nose, vagina [metrorrhagia or hypermenorrhea], kidney [macroscopic hematuria])	Yes	No	Unknown
Altered mental status (irritability, drowsiness, lethargy, restlessness, Glasgow coma scale score <15)	Yes	No	Unknown
Liver enlargement (≥ 2cm below costal margin)	Yes	No	Unknown
Increase in hematocrit concurrent with rapid decrease in platelet count	Yes	No	Unknown
Severe dengue (Condition Code 11705)			
Severe plasma leakage Evidenced by hypovolemic shock or extravascular fluid accumulation (e.g., pleural or pericardial effusion, ascites) with respiratory distress.	Yes	No	Unknown
Severe bleeding Bleeding from the gastrointestinal tract (hematemesis, melena) or vagina (menorrhagia) as defined by requirement for medical intervention including IV fluid resuscitation or blood transfusion	Yes	No	Unknown
Severe organ involvement Including any of the following: - Elevated liver transaminases (AST or ALT >= 1000 U/L) - Impaired level of consciousness or diagnosis of encephalitis, encephalopathy, or meningitis - Heart or other organ involvement including myocarditis, cholecystitis, and pancreatitis	Yes	No	Unknown
Other symptoms			
Chills or rigors	Yes	No	Unknown
Diarrhea	Yes	No	Unknown
Conjunctivitis	Yes	No	Unknown
Other symptoms (specify):			

CASE PATIENT INFORMATION				
Possible Modes of	Transmission			
If the patient is an infant Yes No	t, was the infant breastfed at anytime d Unknown	luring the two weeks prior t	o symptom onset?	
Was the patient identifier	ed through blood donor screening? Unknown			
		_		
Was the patient a blood Yes No	donor in the 30 days prior to illness on	nset?	If yes, date of donation:	
res ino	Unknown		ii yes, date oi donation.	
Did the patient receive a Yes No	a blood transfusion in the 30 days prior Unknown	to illness onset?		
Did the patient donate of	organs in the 30 days prior to illness on	set?		
Yes No	Unknown			
Did the patient receive a	an organ transplant in the 30 days prior	to illness onset?		
Yes No	Unknown			
Did the patient likely acc	quire this illness as a result of work witl	h infectious agents in a labo	oratory setting?	
Yes No	Unknown			
Did transmission of this	arboviral disease occur through a mod	de other than mosquito bite	? (select the appropriate mode, as applicable):	
Perinatal transmission indinates that the patient	dicates that the patient is an infant that will is an infant that will is an infant that was infected during pre	vas infected around the time	e of delivery while transplacental transmission	
Perinatal Sex	kual Transplacental (In Utero)	Other, specify:		
Pregnancy Information	<u>on</u>			
Was the patient pregnar				
Yes No	Unknown Not applicable ((male)		
What were the pregnand	cy complications?			
Fetal growth abnorm		Intacranial calcification	None	
Fetus with central ne	rvous system (CNS) abnormalities	Microcephaly	Unknown	
What were the pregnance				
Live birth Premature birth	Fetal death Therapeutic abortion	Stillbirth Still pregnant	Perinatal death Unknown	
	·		OHAIOWII	
	onditions did the newborn experience			
Intracranial calcificat Intrauterine growth re		Ocular defects Congenital anomaly of ce	None entral nervous system Unknown	
intracterine growth re		Congenital anomaly of Co	Officiowii	
		ARIABLES FOR JURISE		
	NOT	FE: Enter dates as MM/Y	YYY	
Did the patient previous	ly receive a yellow fever vaccine?			
Yes No	Unknown		If Yes, month/year of vaccination (MM/YYYY):	
Did the patient previous	ly receive a dengue vaccine?			
Yes No	Unknown		If Yes, month/year of vaccination (MM/YYYY):	
			If Yes, month/year of vaccination (MM/YYYY):	
			If Yes, month/year of vaccination (MM/YYYY):	
			ii res, month/year or vaccination (wild/ 1 1 1).	

LABORATORY INFORMATION Date Collected **Performing Laboratory** Interpretation Dengue virus test type^{††} Specimen Type§§ Example: IgM Example: Example: mm/dd/yyyy Positive Serum, unknown State Public Health Lab Negative Indeterminate/ equivocal Positive Negative Indeterminate/ equivocal Positive Negative Indeterminate/ equivocal Positive Negative Indeterminate/ equivocal Positive Negative Indeterminate/ equivocal **For appropriate dengue testing please review the recommended CDC dengue testing guidelines: https://www.cdc.gov/dengue/hcp/diagnosis-testing/index.html SThe types of specimen collected may include: acute phase serum, amniotic fluid, blood, body fluid, cerebrospinal fluid, convalescent phase serum, cord blood, fetal cytologic material, fetus, saliva, seminal fluid, serum, placenta, tissue, brain tissue. Serum Paired Antibody Result: Cerebrospinal Fluid Pleocytosis (>=5 WBC): Dengue Virus type result: Dengue virus, type 1 Unknown 4-fold rise Positive Yes Dengue virus, type 2 Negative Not done No Dengue virus, type 3 Unknown Dengue virus, type 4

CASE CLASSIFICATION

Unknown

If you need assistance with case classification, please reach out to CDC Dengue Branch at dengue@cdc.gov

Not a case

Suspected

Dengue Case classification:

Confirmed

Probable

OPTIONAL VARIABLES FOR JURISDICTION USE

Doos the no	tiont lengue	f other persons /s a		UIRED CASE INFORM				
boes the pa similar illnes		t otner persons (e.g	nousenoid member, ta	amily member, classmate, no	eighbor, work colleague, etc.) experiencing			
Yes	No	Unknown						
If yes, pleas	e list contac	t information in the f	ollowing table to initia	te investigation of possible	other cases:			
	Name		Email Address	Phone	Address (street, city, state)			
infect comp	etent mosqu	ito vectors biting the	remic (have circulating em during that period. ould have occurred?	virus) from a few days befo Can the patient share inform	re symptom onset up to 14 days afterwards and can mation about areas visited in the two weeks after			
Yes	No	Unknown						
Diagon list is	ootions wh	oro nationt had need	ible mesquite eves	o during this vironic norice				
Date		ere patient nad poss (e.g., church, friend		e during this viremic period	: Address (street, city, state)			
Date	Location	(e.g., charch, mena	s riouse, scriooij	•	Address (Street, City, State)			
Comments:								
			INVESTI	GATOR INFORMATIO	N			
Data of firet	report to be	alth department:	Data in	vestigation started:	Date investigation completed:			
Date of first	report to ne	анн цераннени	Date in	restigation started	Date investigation completed			
Date of trans	smission to	ArboNET:	_					
Reporting e	ntity (select	all that apply):						
Lab	Clinic		Other, specify:					
Hospital		tment of Health	outer, opeony:					
-								
Name of inv	estigator: _				Investigator phone number:			
nvestigator	Email:				_			
Investigator	role:			Investigation Status	:			
Department of Health employee or staff				In progress				
Physician				Complete	. •			
Nurse				Complete – not reportable to Department of Health				
Other, specify:					Unable to complete			
Other, spe	ecify:				ete			

Case Definition

Case Definition available at:

https://ndc.services.cdc.gov/case-definitions/dengue-virus-infections-2015/

Clinical description Dengue

Dengue is defined by fever as reported by the patient or healthcare provider and the presence of one or more of the following signs and symptoms: Nausea/vomiting, rash, aches and pains (e.g., headache, retro-orbital pain, joint pain, myalgia, arthralgia, tourniquet test positive, leukopenia (a total white blood cell count of <5,000/mm3), or any warning sign for severe dengue: abdominal pain or tenderness, persistent vomiting, extravascular fluid accumulation (e.g., pleural or pericardial effusion, ascites), mucosal bleeding at any site, liver enlargement >2 centimeters, and increasing hematocrit concurrent with rapid decrease in platelet count.

Dengue-like illness

Dengue-like illness is defined by fever as reported by the patient or healthcare provider.

Severe dengue

Severe dengue is defined as dengue with any one or more of the following scenarios:

- Severe plasma leakage evidenced by hypovolemic shock and/or extravascular fluid accumulation (e.g., pleural or pericardial effusion, ascites) with respiratory distress. A high hematocrit value for patient age and sex offers further evidence of plasma leakage.
- Severe bleeding from the gastrointestinal tract (e.g., hematemesis, melena) or vagina (menorrhagia) as defined by requirement for medical intervention including intravenous fluid resuscitation or blood transfusion.
- Severe organ involvement, including any of the following:
 - Elevated liver transaminases: aspartate aminotransferase (AST) or alanine aminotransferase (ALT) ≥1,000 per liter (U/L)
 - Impaired level of consciousness and/or diagnosis of encephalitis, encephalopathy, or meningitis
 - Heart or other organ involvement including myocarditis, cholecystitis, and pancreatitis

Laboratory criteria for diagnosis

Confirmatory:

- Detection of dengue virus (DENV) nucleic acid in serum, plasma, blood, cerebrospinal fluid (CSF), other body fluid or tissue by validated reverse transcriptase-polymerase chain reaction (PCR), or
- Detection of DENV antigens in tissue by a validated immunofluorescence or immunohistochemistry assay, or
- Detection in serum or plasma of DENV NS1 antigen by a validated immunoassay; or
- Cell culture isolation of DENV from a serum, plasma, or CSF specimen; or
- Detection of IgM anti-DENV by validated immunoassay in a serum specimen or CSF in a person living in a dengue endemic or non-endemic area of the United States without evidence of other flavivirus transmission (e.g., West Nile Virus (WNV), St. Louis Encephalitis Virus (SLEV), or recent vaccination against a flavivirus (e.g., Yellow Fever Virus (YFV), Japanese Encephalitis Virus (JEV)); or

- Detection of IgM anti-DENV in a serum specimen or CSF by validated immunoassay in a traveler returning from a dengue endemic area without ongoing transmission of another flavivirus (e.g., WNV, JEV, YFV), clinical evidence of co-infection with one of these flaviviruses, or recent vaccination against a flavivirus (e.g., YFV, JEV); or
- IgM anti-DENV seroconversion by validated immunoassay in acute (i.e., collected <5 days of illness onset) and convalescent (i.e., collected >5 days after illness onset) serum specimens; or
- IgG anti-DENV seroconversion or ≥4-fold rise in titer by a validated immunoassay in serum specimens collected >2 weeks apart, and confirmed by a neutralization test (e.g., plaque reduction neutralization test) with a >4-fold higher end point titer as compared to other flaviviruses tested.

Probable:

- Detection of IgM anti-DENV by validated immunoassay in a serum specimen or CSF in a person living in a dengue endemic or non-endemic area of the United States with evidence of other flavivirus transmission (e.g., WNV, SLEV), or recent vaccination against a flavivirus (e.g., YFV, JEV).
- Detection of IgM anti-DENV in a serum specimen or CSF by validated immunoassay in a traveler returning from a dengue endemic area with ongoing transmission of another flavivirus (e.g., WNV, JEV, YFV), clinical evidence of co-infection with one of these flaviviruses, or recent vaccination against a flavivirus (e.g., YFV, JEV).

Suspected:

• The absence of IgM anti-DENV by validated immunoassay in a serum or CSF specimen collected <5 days after illness onset and in which molecular diagnostic testing was not performed in a patient with an epidemiologic linkage.

Epidemiologic linkage

- Travel to a dengue endemic country or presence at location with ongoing outbreak within previous two weeks of onset of an acute febrile illness or dengue, or
- Association in time and place (e.g., household member, family member, classmate, or neighbor) with a confirmed or probable dengue case.