## NON-IMMEDIATE NOTIFICATION

**Note**: West Nile virus (WNV), Eastern equine encephalitis (EEE) virus, Dengue, Jamestown Canyon virus (JCV), Powassan virus, Yellow Fever, and Zika virus each have their own product codes and separate case classification manual chapters.

Arbovirus (other) (ARBO) -- may include, but not be limited to, California serogroup virus diseases (California encephalitis, Keystone, La Crosse, Snowshoe hare, Trivittatus viruses), Chikungunya virus, St. Louis encephalitis virus, Western equine encephalitis virus, Oropouche virus, Colorado Tick Fever, Japanese encephalitis virus

Event Name:	ARBO				
Event Time Period:	60 days				
Clinical Description (CSTE 2015):	Cases of arboviral disease are classified either as neuroinvasive or non-neuroinvasive, according to the following criteria:  Neuroinvasive disease  Meningitis, encephalitis, acute flaccid paralysis, or other acute signs of central or peripheral neurologic dysfunction, as documented by a physician, AND  Absence of a more likely clinical explanation. Other clinically compatible symptoms of arbovirus disease include: headache, myalgia, rash, arthralgia, vertigo, vomiting, paresis and/ or nuchal rigidity.  Non-neuroinvasive disease  Fever (chills) as reported by the patient or a health-care provider, AND  Absence of neuroinvasive disease, AND  Absence of a more likely clinical explanation. Other clinically compatible symptoms of arbovirus disease include: headache,				
CSTE Event Classification (2015):	myaigia, ra Confirmed neuroinvasive	<ul> <li>sh, arthralgia, vertigo, vomiting, paresis and/ or nuchal rigidity.</li> <li>A case that meets the clinical criteria for neuroinvasive disease and one or more of the following laboratory criteria: <ul> <li>Isolation of virus from, or demonstration of specific viral antigen or nucleic acid in, tissue, blood, CSF, or other body fluid, OR</li> <li>Four-fold or greater change in virus-specific quantitative antibody titers in paired sera, OR</li> <li>Virus-specific IgM antibodies in serum with confirmatory virus-specific neutralizing antibodies in the same or a later specimen, OR</li> <li>Virus-specific IgM antibodies in CSF, with or without a reported pleocytosis, and a negative result for other IgM antibodies in CSF for arboviruses endemic to the region where exposure occurred.</li> </ul> </li> </ul>			
	Probable neuroinvasive Confirmed non-neuroinvasive	<ul> <li>A case that meets the clinical criteria for neuroinvasive disease and the following laboratory criteria:         <ul> <li>Virus-specific IgM antibodies in CSF or serum but with no other testing.</li> </ul> </li> <li>A case that meets the clinical criteria for non-neuroinvasive disease and one or more of the following laboratory criteria:         <ul> <li>Isolation of virus from, or demonstration of specific viral antigen or nucleic acid in, tissue, blood, or other body fluid, excluding CSF, OR</li> <li>Four-fold or greater change in virus-specific quantitative antibody titers in paired sera, OR</li> <li>Virus-specific IgM antibodies in serum with confirmatory virus-specific neutralizing antibodies in the same or a later specimen.</li> </ul> </li> </ul>			

Probable	A case that meets the clinical criteria for non-neuroinvasive disease and the following laboratory criteria:
non-neuroinvasive	Virus-specific IgM antibodies in serum but with no other testing.

## **ARBOVIRAL INFECTIONS (continued)**

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry			
Laboratory report	Culture	Clinical specimen	Specific virus result such as Chikungunya or La Crosse, etc.	Yes	New event SUSPECT			
				No	Same event			
Select:	Virus identified: PrId: Pt: xxx: Nom: Virus culture							
Laboratory report for <b>Saint Louis</b>	IFA (indirect or antibody)	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT			
encephalitis virus	antibody)			No	Same event			
Select(IgM specific):	Saint Louis encephalitis virus Ab. IgM: Titr: Pt: Ser: Qn: IF							
Select(IgG specific):	Saint Louis	encephalitis	s virus Ab. IgG: Titr: Pt: Ser: Qn: IF					
Laboratory report for <b>Saint Louis</b>	ELISA	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT			
encephalitis virus				No	Same event			
Select(IgM specific):	Saint Louis encephalitis virus IgM Titr xxx ELISA							
Select(IgG specific):	Saint Louis encephalitis virus IgG Titr xxx ELISA							
Laboratory report for Saint Louis	Plaque Reduction Neutralizatio	Serum or CSF	Positive (if value given, note in Result Value field)	Yes	New event SUSPECT			
encephalitis virus	n Test (PRNT)			No	Same event			
	Saint Louis encephalitis virus AB xxx Ql Nt							

## **ARBOVIRAL INFECTIONS (continued)**

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry			
Laboratory report for	IFA	Serum or	Positive		New event			
California encephalitis		CSF		Yes	SUSPECT			
virus				No	Same event			
Select:	California end	California encephalitis virus IgG Ab [Titer] in Serum by Immunofluorescence						
Laboratory report for <b>Chikungunya virus</b>	PCR	Serum or CSF	Positive	Yes	New event SUSPECT			
				No	Same event			
Select:	CHIKV RNA	XXX PCR						
Laboratory report for <b>Chikungunya virus</b>	ELISA	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT			
				No	Same event			
Select (IgM specific):	CHIKV IgM Titr xxx ELISA							
Select (IgG specific):	CHIKV IgG 7	Titr xxx ELIS	A					
Laboratory report for <b>Chikungunya virus</b>	Plaque Reduction	Serum or CSF	Positive (if value given, note in Result Value field)	Yes	New event SUSPECT			
	Neutralization Test (PRNT)			No	Same event			
Select:	CHIKV AB x	xx Ql Nt						
Laboratory report for	IFA	Serum or	Positive (if titer value given, note	Yes	New event			
Chikungunya virus		CSF	in Result Value field)		SUSPECT			
			,	No	Same event			
Select (IgM specific):	CHIKV IgM Titr SerPl IF							
Select (IgG specific):	CHIKV IgG Titr SerPl IF							
Laboratory report for Western equine	IFA	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT			
encephalitis				No	Same event			
Select (IgM specific):	Western equine encephalitis virus Ab.IgM: Titr: Pt: Ser: Qn: IF							
Select (IgG specific):	Western equine encephalitis virus Ab.IgG: Titr: Pt: Ser: Qn: IF							

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry		
Laboratory report for Western equine	EIA	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT		
encephalitis				No	Same event		
Select (IgM specific):	Western equine encephalitis virus Ab.IgM: ACnc:Pt:XXX:Ord:EIA						
Select (IgG specific):	Western equine encephalitis virus Ab.IgG: ACnc:Pt:XXX:Ord:EIA						
Laboratory report for La Crosse virus	IFA (indirect or antibody)	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT		
		CSI	in Result Value field)	No	Same event		
Select(IgM specific): LA Crosse virus Ab.IgM Titr Pt Ser Qn IF							
Select(IgG specific):	LA Crosse vi	rus Ab.IgG Ti	itr Pt Ser Qn IF				
Laboratory report for <b>La Crosse virus</b>	ELISA	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT		
			,	No	Same event		
Select(IgM specific):	La Crosse vir	us IgM Titr x	exx ELISA				
Select(IgG specific):	La Crosse vir						
Laboratory report for La Crosse virus	La Plaque Reduction Neutralization Test (PRNT)	Serum or CSF	Positive (if value given, note in Result Value field)	Yes	New event SUSPECT		
C10550 V11 <b>U</b> 5				No	Same event		
	La Crosse virus AB xxx Ql Nt						
Laboratory report for <b>Oropouche virus</b>	PCR	Serum or CSF	Positive	Yes	New event SUSPECT		
•				No	Same event		
Select:							
Laboratory report for Colorado tick fever	IFA	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT		
virus		<u> </u>	, ,	No	Same event		
Select (IgM specific):	O .						
Select (IgG specific):	c): CTFV IgG Titr Ser IF						
Laboratory report for Colorado tick fever	Plaque Reduction	Serum or CSF	Positive (if value given, note in Result Value field)	Yes	New event SUSPECT		

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry	
virus	Neutralization Test (PRNT)			No	Same event	
Select:	CTFV AB xxx	Ql Nt				
Laboratory report for Japanese encephalitis	ELISA	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT	
virus				No	Same event	
Select (IgM specific):	E JEV IgM Titr xxx ELISA					
Laboratory report for Japanese encephalitis	Plaque Reduction Neutralization	Serum or CSF	Positive (if titer value given, note in Result Value field)	Yes	New event SUSPECT	
virus	Test (PRNT)			No	Same event	
	JEV AB xxx Ql Nt					