



Supplementary Materials of Clinical Diagnosis of Chikungunya Infection: An Essential Aid in a Primary Care Setting Where Serological Confirmation is not Available

Table S1. Percentage of most common symptoms in arboviral diseases.

	DENV	CHIKV	ZIKAV	Reference
Fever	93.89	92.66	69.51	[10, 11, 20–29, 12, 30, 13–19]
Headache	73.33	64.14	72.19	[10, 11, 20–23, 25, 27–29, 12–19]
Rash	37.00	47.03	74.03	[10, 11, 20–23, 25–30, 12–19]
G/I symptoms	49.09	37.46	28.88	[10, 11, 20–23, 25–30, 12–19]
Myalgia	73.43	61.48	65.54	[10, 11, 21–29, 12–19]
Fatigue	12.50	43.78	40.55	[15, 16, 18, 22, 23, 27, 28]
Arthralgia	63.79	87.14	61.55	[10, 11, 20, 22, 23, 25–30, 12–19]
Arthritis/Oedema	11.50	48.36	27.80	[10, 13, 29, 18–23, 25, 27]
Bleeding	8.93	4.81	4.03	[10, 12, 14–17, 23, 28]
Red eye	34.38	29.42	62.04	[10, 13, 17–19, 21, 23, 29, 30]

DENV: Dengue virus; CHIKV: Chikungunya virus; ZIKAV: Zika virus.

Table S2. Statistical differences between symptoms and arboviral diseases.

	DENV-CHIKV	DENV-ZIKAV	CHIKV-ZIKAV
Fever		< 0.000	< 0.000
Headache			
Rash		< 0.000	< 0.000
G/I symptoms		0.0057	
Myalgia			
Fatigue	< 0.000	< 0.000	
Arthralgia	< 0.000		< 0.000
Arthritis/Oedema	< 0.000	0.003	0.005
Bleeding			
Red eye		< 0.000	< 0.000

DENV: Dengue virus; CHIKV: Chikungunya virus; ZIKAV: Zika virus.

Table S3. Definitions of diagnostic criteria and screening tools.

	Definition
CHIKV WHO case definition (2015) [31]	Acute clinical case: clinical criterion (fever ≥ 38.5 °C and joint pain usually incapacitating usually accompanied by exanthema, myalgia, back pain, and headache) and epidemiological criterion: resident or visitor in areas with local transmission of CHIKV on the last 15 days
Sissoko CHIKV screening tool (2010) [11]	Incapacitating polyarthralgia and fever of abrupt onset
Thiberville CHIKV screening tool (2013) [26]	Clinical score: fever and arthralgia for less than 48 hours plus: arthralgia of at least 1 MCP, arthralgia of at least 1 wrist and myalgia (probable CHIKV if 3 are present; possible CHIKV if only 2 are present)
Cleton CHIKV screening tool (2015) [40]	Arthralgia combined with rash (both symptoms present are associated with positive test outcome for CHIKV)
Macpherson CHIKV screening tool (2016) [12]	Joint pain and any combination of fever, body pain, or rash (the combination of symptoms that most closely agree with positive CHIKV serology)
ZIKAV WHO case definition (2016) [41]	Suspected case: a person presenting with rash and/or fever and at least one of the following signs or symptoms: arthralgia or arthritis or conjunctivitis (non-purulent/hyperaemic)
Braga ZIKAV screening tool (2017) [17]	Clinical based score to discriminate ZIKAV cases from other febrile or exanthematic illnesses (a score ≥ 7.5 from maculopapular rash = 7, temperature ≤ 37.5 °C = 6, itching = 4.5, anorexia = 2.5, no petechiae = 2, conjunctival hyperaemia = 1)

DENV WHO case definition (2009) [42]	Probable dengue: live in/travel to dengue endemic area. Fever and 2 of the following criteria: nausea or vomiting, rash, aches and pains, tourniquet test positive, leukopenia, any warning sign CHIKV: Chikungunya virus; WHO: World Health Organization; ZIKAV: Zika virus; DENV: Dengue virus.
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