2 sisters Dengue and Chikungunya

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Many diseases display overlapping symptoms and geographical distribution Within genus cross-reactivity!

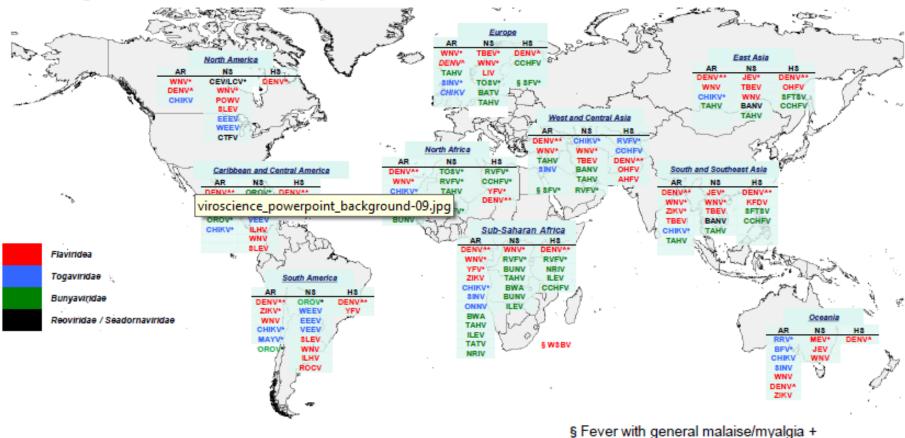


Fig 1. Geographical distribution of medically important arboviruses that cause febrile disease in humans.

Cleton et al 2012 Journal of Clinical virology & Cleton et al 2015 PNTD

AR=Arthritis/arthralgia and rash HS=Haemorrhagic symptoms NS=neurological symptoms

Thailanda, Phuket, Kata Beach 3-13.01.2019

- 11 year-old, girl
- 09.01.2019 fever, chills
- 10.01.2019 rash on legs 2 days, nausea, vomiting, mild arthralgia, mild axillar lymphadenitis

- 14 year-old, girl
- 12.01.2019 fever, chills, poliarthralgia especially on hands, mild axillar lymphadenitis
- 17.01.2019 rash on upper and lower extremities

Laboratory results

- 11 years
- Positive NS1Ag for Dengue virus (5th day from onset, RT-PCR for dengue-1 virus was positive in urine

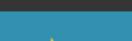
- 14 years
- Negative NS1Ag for Dengue virus; RT PCR positive for Chikungunya (3rd day from onset)
- IgM for Chikungunya negative (3rd day),
 positive IgM and IgG (19th day from onset)

CHIKV vs. DENV

Comparison of clinical features of CHIKV and DENV infections Joint pain and stiffness are more common with chikungunya than with dengue.

Cli	nical Features	Chikungunya Virus (CHIKV)	Dengue Virus (DENV)	Reference
1)	Fever, asthenia	Common	Common	[6,8]
2)	Myalgia	Possible	Very common	[6]
3)	Polyarthritis	Very Common, edematous	None	[56]
4)	Tenosynovitis	Yes	None	[57]
5)	Leukopenia	None	Yes	[58]
6)	Thrombocytopaenia	None	Yes	[59]
7)	Rash	Days 1–4, important skin edema	Days 3–7	[6,35,58]
8)	Retro-orbital pain	Rare	Common	[60]
9)	Hypotension	Possible	Common, Days 5-7	[60,61]
10)	Minor bleeding	Chronic polyarthritis up to 1 year	Common	[17,56]
11)	Second stage	Possible; Tenosynvovitis at M2–M3 Raynaud's syndrome at M2–M3	Fatigue up to 3 mo	[6,56,57,58,62,63]

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Rapid communication

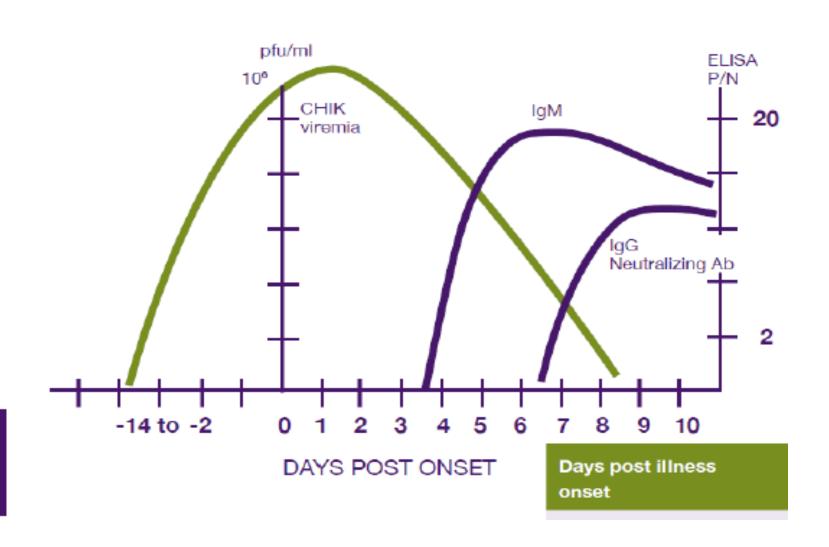
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Increased risk of chikungunya infection in travellers to Thailand during ongoing outbreak in tourist areas: cases imported to Europe and the Middle East, early 2019



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Viremia and immune response in Dengue virus infection

