Dengue and Zika Viral Infections in Patients with Acute Febrile Illness in Northeastern Thailand





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AFI patient come to the hospital (June 2016 - June 2017)

Blood sample collection (143 samples)



NS1 antigen

Anti-dengue IgM

Anti-dengue IgG

- - RT-PCR (GAPDH, DENV, ZIKV)

DENV positive samples were subjected to **DENV** serotyping using **RT-PCR**

Amplified ZIKV fragments were confirmed by sequencing.

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To investigate the prevalence of DENV and ZIKV infections as well as DENV-ZIKV co-infection in acute febrile illness (AFI) patients in northeastern Thailand.







Patient's gender

				DENV+Zika	
Sex	Total (n)	DENV infected (n)	Zika infected (n)	coinfecetd (n)	non-infected (n)
Male	69	30	1	1	37
Female	74	15	3	1	55



Conclusion

- During a 13-month study period, DENV-4 was predominant. ZIKV was also co-circulating in a DENV endemic region.
- Surveillance of arboviral infections, especially DENV and ZIKV in AFI patients presenting dengue-like symptoms is required to assess relative transmission risk to local populations in northeastern, Thailand.