

Clinical Diagnosis and Management of Zika Virus Infection

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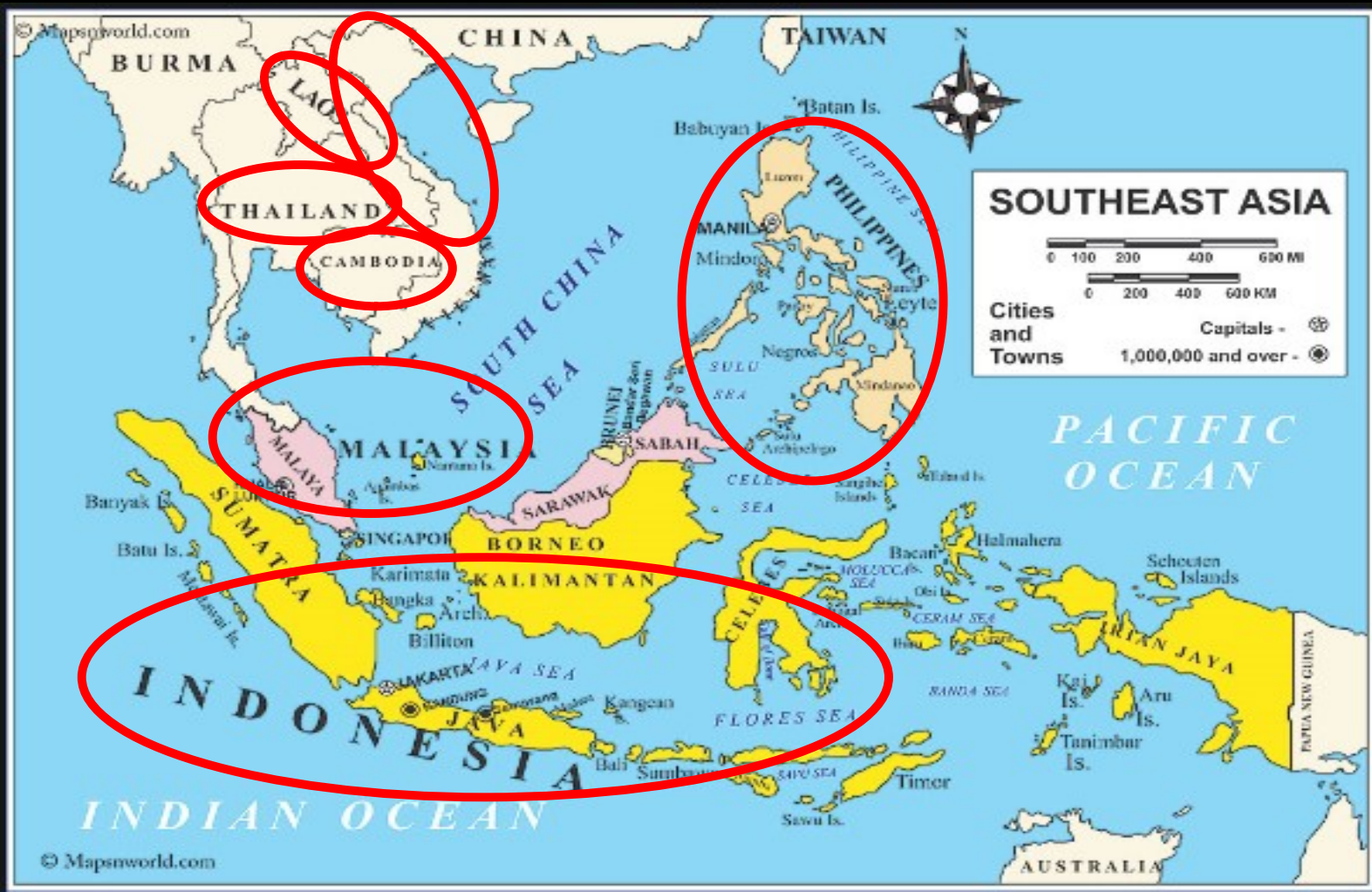
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Zika Virus : Emergence and Emergency

- **First isolated is 1947 , in a rhesus monkey in Zika Forest , Uganda**
- **Jan . 2016: US CDC has recommended postponing travel to affected area with active transmission**
- **Feb. 2016 : WHO has declared the outbreak as international public health emergency**

**Zika Virus infection had been reported from 7 ASIAN countries.
Lao PDR is the latest country 4 Mar.2016**



First Case of laboratory confirmed Zika virus Infection Imported into Europe , November 2013

- **A German traveler , age 50 , admitted to hospital on
22 Nov. 2013 , after returning from Thailand**
- **In Thailand , he travelled to Phuket , Krabi, Ko Jum and Ko lanta**
- **12 day after returning home he developed**
 - **Fever , malaise , chills , jt. pain , swelling Lt ankle**
 - **M P rash trunk , arm , legs and 4 days fading**
- **Dengue Duo (NS1 Ag + Ab combo)= negative**
- **Anti- ZIKV- IgG = 1:5120 ; Anti - ZIKV-IgM = 1:10,240**

(Eurosurveillance , Vol 19 , Issue 4 , 30 Jan 2014.)

Serological results of a case of Zika virus infection from Thailand imported into Germany, November 2013

Antibody or antigen tested	Serum samples taken after symptom onset (days)		
	10	31	67
Anti-ZIKV-IgG ^a	1:5,120	1:2,560	1:2,560
Anti-ZIKV-IgM ^a	1:10,240	1:2,560	1:320
Anti-DENV-IgG ^a	<1:20	1:80	1:160
Anti-DENV-IgM ^a	1:40	<1:20	<1:20
DENV NS1 ^b	Negative (0.1 arbitrary units)	Negative (0.2 arbitrary units)	Negative (0.1 arbitrary units)
Anti-JEV-IgG ^a	<1:20	1:40	1:20
Anti-JEV-IgM ^a	<1:20	<1:20	<1:20
Anti-WNV-IgG ^a	<1:20	1:20	1:80
Anti-WNV-IgM ^a	<1:20	<1:20	<1:20
Anti-YFV-IgG ^a	<1:20	<1:20	1:20
Anti-YFV-IgM ^a	<1:20	<1:20	<1:20
Anti-CHIKV-IgG ^a	<1:20	<1:20	<1:20
Anti-CHIKV-IgM ^a	<1:20	<1:20	<1:20

CHIKV: chikungunya virus; DENV: dengue virus; JEV: Japanese encephalitis virus; NS1: nonstructural protein-1; WNV: West Nile virus; YFV: yellow fever virus; ZIKV: Zika virus.