



โรงพยาบาลกรุงเทพ

BANGKOK HOSPITAL

หัวหิน • HUA HIN

Dengue fever

by

Dr Pongsak 29/10/15

- **What is Dengue fever ?**
- Is it a kind of malaria ?
- How bad is the Dengue situation in Thailand ?
- How do we get the infection ?
- What are Dengue hemorrhagic infection and Dengue shock syndrome ?
- What are the symptoms and treatments ?
- Will I get it again if I already had the infection ?

-It's a disease caused by Dengue virus. The diseases are transmitted by Aedes mosquitoes

-It is a worldwide disease in tropic and subtropic zones in every continent except Antarctica.

-People can catch it all year round but the disease has a tendency to become an outbreak every 2 years.

-Most people clear the infection naturally without specific medicines but few develop serious forms of the infection which may lead to death if being untreated.

-Prevention is still the most important measure.

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No. They are totally different disease. The similarity is that they spread by mosquitoes (different kinds). Malaria has more complications including death when untreated.

Anopheles mosquito

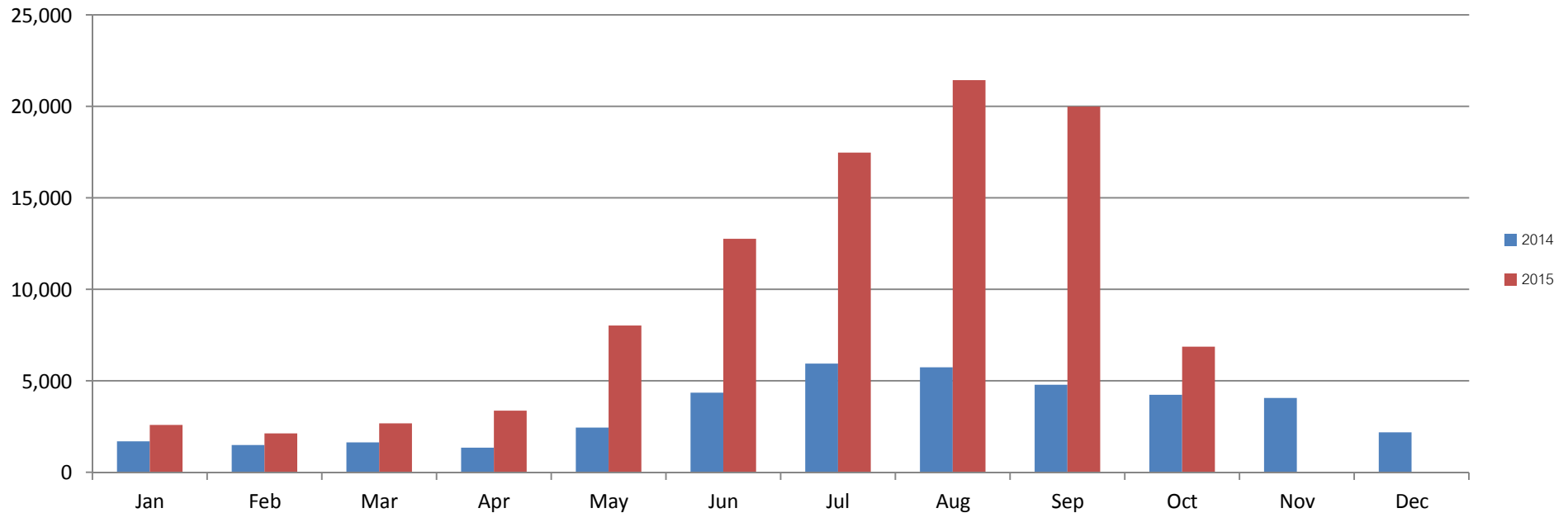


Aedes mosquito



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Incidence of Dengue infection 2014 & 2015



- Infection rate (per 100,000 population) 146.31 (2015 until October)
62.33 (2014)
241.03 (2013)
- Mortality rate (per 100 patients) 0.10 (2013 – 2015)

Active areas in Prachuab Khiri Khan

District	Aug	Sep	Oct
Muang District	20	24	10
Kuiburi	2/1	34	6
Tapsakae	9	7	2
Bang Sapan	4	4	7
Bang Sapan Noi	16	6	1
Pranburi	33	27	20
Hua Hin	38	43	34
Samroiyod	27	39/1	18

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Aedes mosquito



- Love to breed in still water in man-made containers (urban ground)
- Female ones bite to reproduce, male ones do not
- Biting tend to occur during the day especially at dawn and dusk, when there is light, so well lit area at night is also a risk.
- They do not fly longer 100 meters from the breeding ground
- When biting a patient with virus, it takes a few days to become infective

TOP 5 BREEDING HABITATS @ HOME



1 Domestic Containers



2 Flower Pot Plates/Trays



3 Ornamental Containers



4 Plants (Hardened Soil and Plant Axils)



5 Toilet Bowl/Cistern

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Dengue infection can be symptom free or non-specific flu like symptoms for a few days.

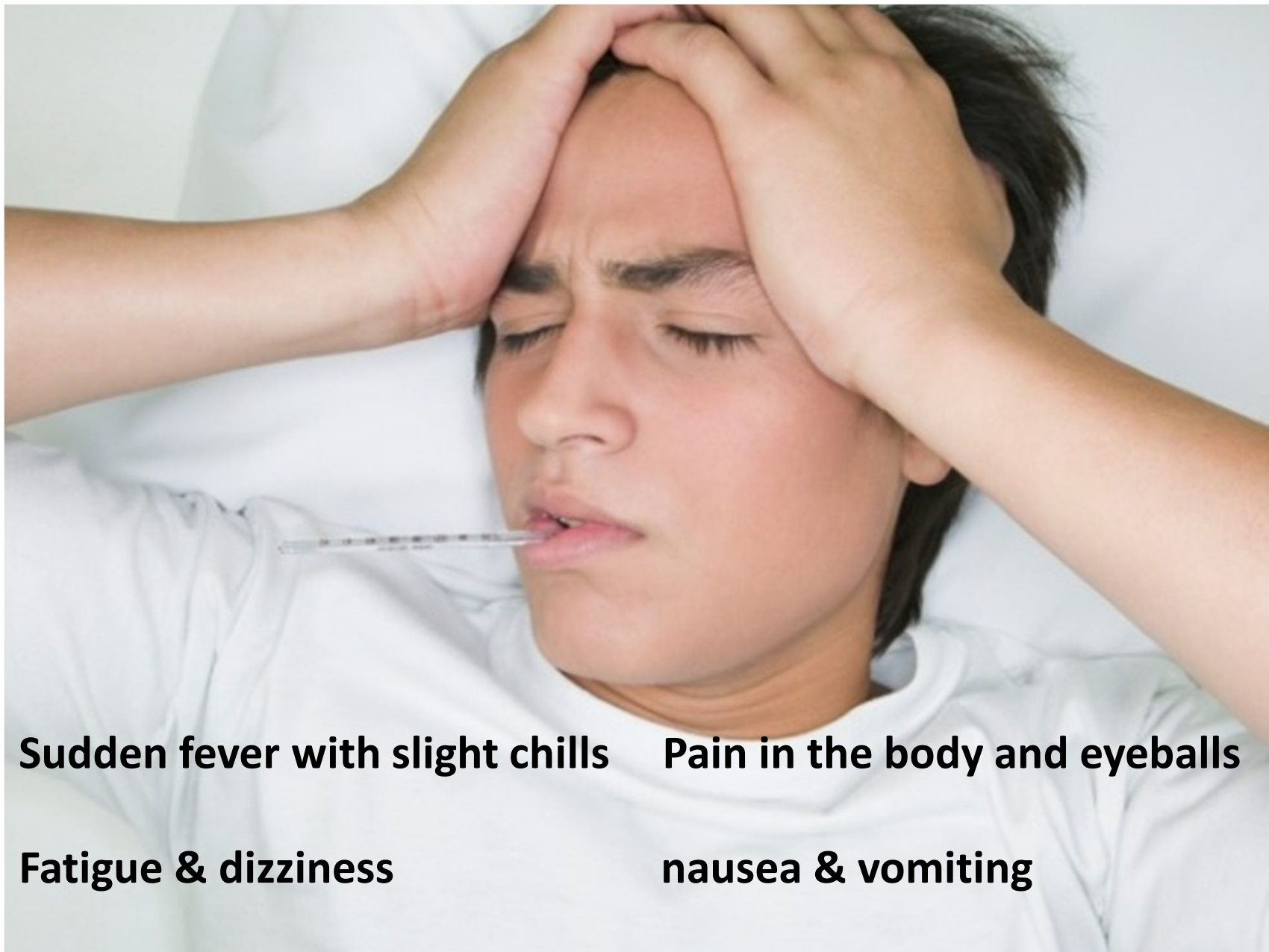
The classic Dengue fever has 5-7 days high fever, dizziness, eye/body pain, rash, nausea/vomiting body-ache.

The disease has an effect in our body blood production especially platelets (thrombocytes).

In some cases, patients may have bleeding tendency (gum / nose bleeds, increased menstruation) then the term, Dengue hemorrhagic fever will be used.

The most unlucky case of shock can occur in some cases from leakage of plasma from our circulation into the body tissue. This is a serious condition – Dengue Shock Syndrome

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Sudden fever with slight chills

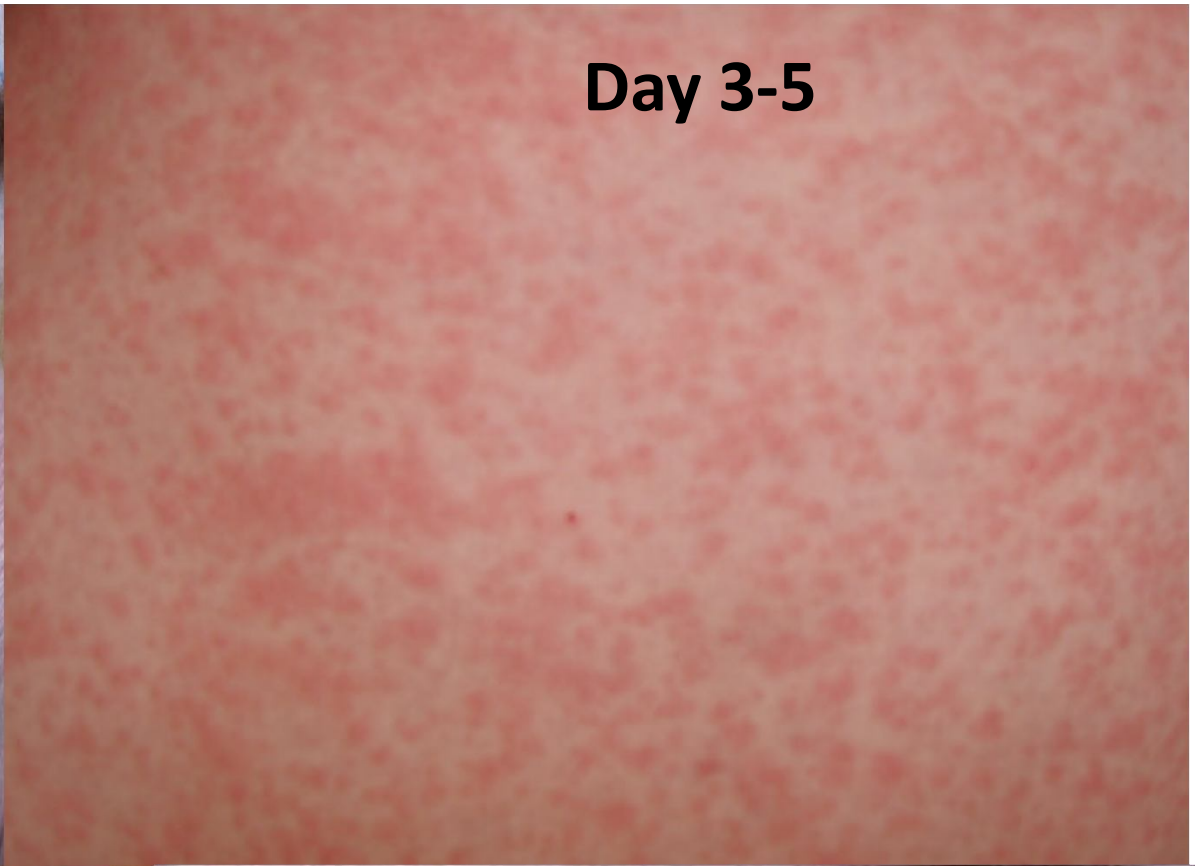
Pain in the body and eyeballs

Fatigue & dizziness

nausea & vomiting



Day 3-5



Day 3-5



Day 6-7



- **Incubation period of 4-7 days**
- **Sudden fever with chills for 7 days, very high (40 c) for the first 3-4 days and a bit less high for the last 2-3 days.**
- **Pain in the body, lower back, joints and eyeballs**
- **Red skin and body rashes, getting denser and sensitive as time passes and turn to an itch on day 7**
- **Prominent tiredness with loss of appetite, also nausea and vomiting. Tiredness will improve when fever drops (if no complications) and regain strength gradually in 3-5 days.**
- **Diarrhea may be prominent leading to another diagnosis of intestinal infection**
- **Serious forms believed to be a result from second infection from DENV-2 in patients who has DENV1,3,4 before.**

Treatments

- **Mainly supportive treatment as our body will finish off the viruses by itself even in the complicated situation. Patients will receive IV fluid, Paracetamol for fever, other medicines like anti-vomiting, sleeping medicines, vitamins**
- **No antibiotics or antiviral needed**
- **Avoid medicines that can cause bleeding (Aspirin / NSAID)**
- **Blood transfusion may be given in patients with evidence of bleeding**

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- **There are 4 types (DENV 1-4). When you have an infection of one type, you are immune to that type for life, but only a short time to others.**
- **Serious forms believed to be a result from second infection from especially DEN-V2 in patients who has DENV-1,3, 4 before.**
- **Scientists believe that our immunity has a role in creating complication and that's a tricky [art to develop vaccines against the vitus.**

Now we are ready for questions



Thank you for your attention
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