

Dengue Fever Harvard Case Solution & Analysis

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What you need to know...



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DEFINITION

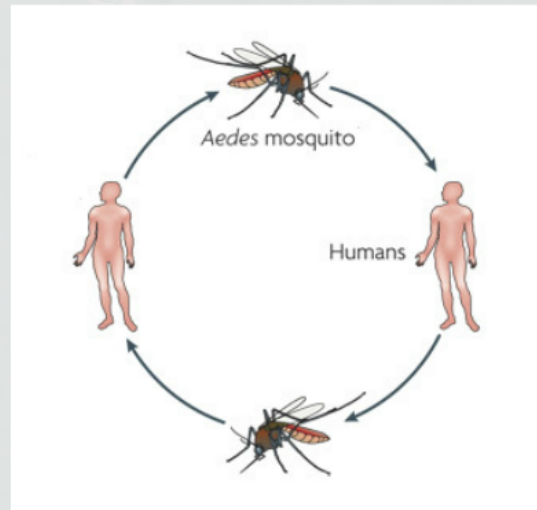


Dengue is a mosquito-borne infection found in **tropical and subtropical regions** around the world.

Dengue Fever is an illness caused by infection with a virus transmitted by the Aedes mosquito.

Transmission

It is spread by the bite of an infected dengue mosquito (usually the *Aedes aegypti* species). There is no spread from human to human.



Do you know!

>Dengue Fever (DF) and Dengue Haemorrhagic Fever (DHF) are the most common mosquito-borne viral disease in the world.

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>It can be fatal.

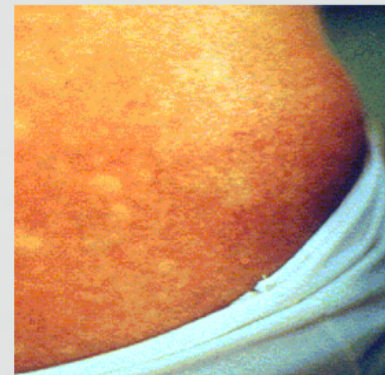
Symptoms

Dengue Fever is a severe, **Flu-like** illness that affects infants, young children and adults, but seldom causes death.

- **high fever**
- **severe headache**
- **pain behind the eyes**
- **muscle and joint pains**
- **nausea and vomiting**
- **swollen glands or rash**



Symptoms usually last for **2-7 days**, after an incubation period of **4-10 days** after the bite from an infected person.



Example of a skin rash due to dengue fever

Characteristics of the Aedes Mosquito



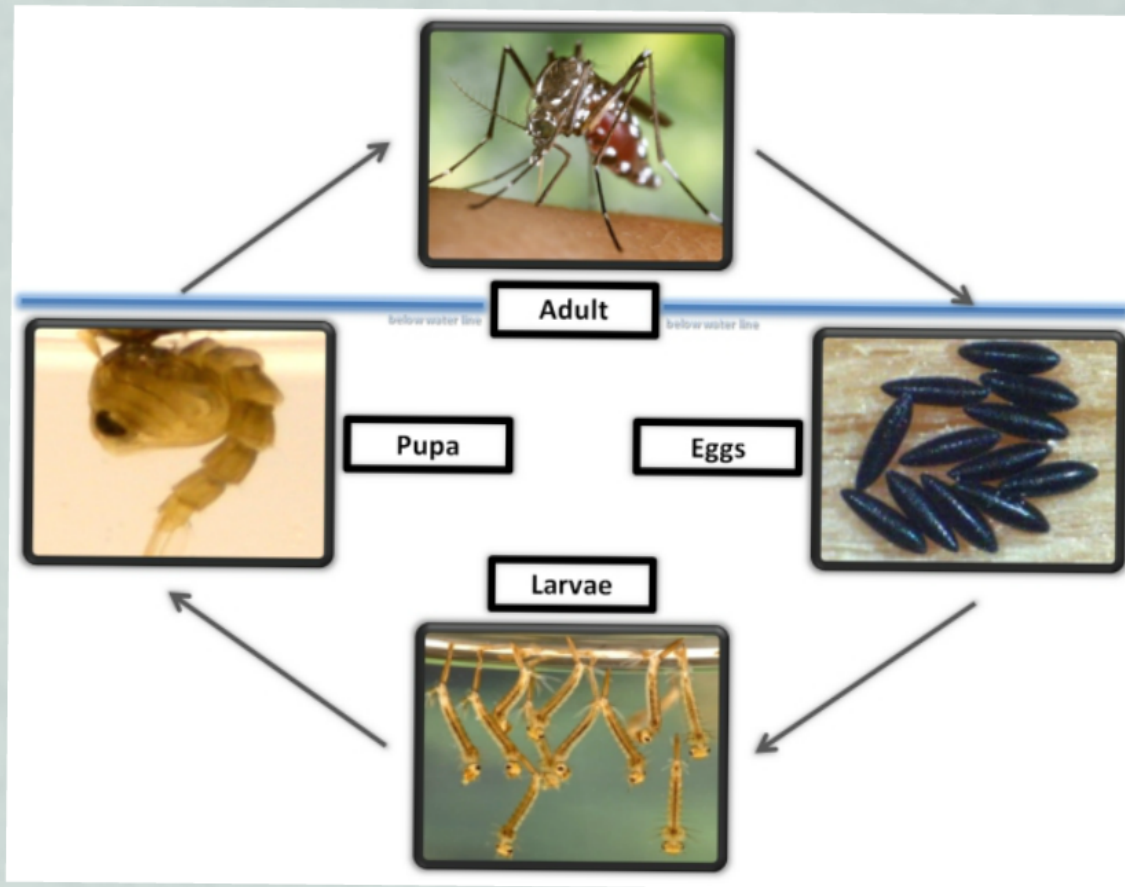
- One distinct physical feature – black and white stripes on its body and legs.
- Bites during the day.
- Lays its eggs in clean, stagnant water

Do you know...

Only the **female Aedes mosquito** feeds on blood. This is because they need the protein found in blood to produce eggs. Male mosquitoes feed only on plant nectar.

On average, a **female Aedes mosquito** can lay about 300 eggs during her life span of 14 to 21 days.

Life Cycle of the Aedes Mosquito



TREATMENT

Maintenance of the patient's **body fluid volume** is critical to severe dengue care.

