

# *Advantage* Dengue **NS1 Ag Card**

Rapid Visual Test for the Detection of Dengue NS1 Ag in Human Serum/ Plasma

- ✓ Detection of Dengue in the seronegative stage i.e. from Day 1 of fever.
- ✓ Detection of all the 4 Dengue serotypes (DEN-1, DEN-2, DEN-3 and DEN-4).
- ✓ Based on Lateral flow technique
- ✓ Results within 20 minutes.
- ✓ Longer Shelf Life: 30 Months at 2-30°C
- ✓ Convenient Pack size : 25 Tests

**Sensitivity: 96%**

**Specificity: 98%**

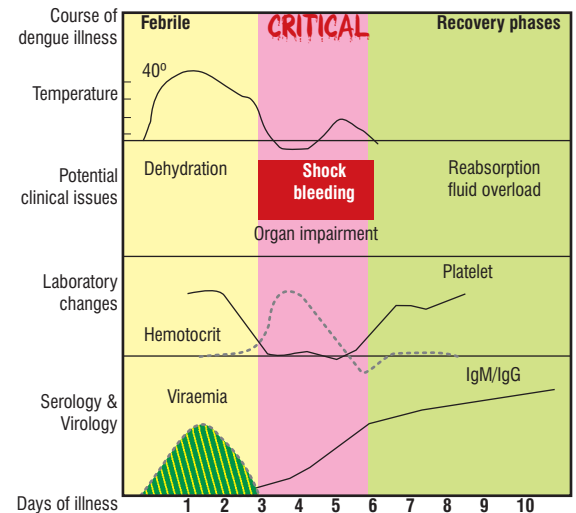


**....diagnose Dengue within *Critical Phase***

## The course of dengue illness\*

Dengue Infection is a systemic and dynamic disease. It has a wide spectrum that includes both severe and no-severe clinical manifestations. After the incubation period, the illness begins abruptly and is followed by the three phases- febrile, critical and recovery as shown below:-

- **Febrile Phase** : Dehydration, high fever may cause neurological disturbances and febrile seizure in young children.
- **Critical Phase** : Shock from plasma leakage, severe Haemorrhage, organ impairment.
- **Recovery Phase** : Hypervolaemia (only if Intravenous fluid therapy has been excessive and/or has extended into this period).



Therefore for a disease that is complex in its manifestations, management is relatively simple, inexpensive and very effective in saving lives so long as correct and timely interventions are instituted.

The key is early recognition and understanding of the clinical problems during the different phase of the disease. A well managed front-line response not only reduces the number of unnecessary hospital admissions but also saves the lives of Dengue patients. Therefore Early notification of Dengue cases is crucial for identifying out breaks and initiating an early response.

## Why Detection of Dengue virus NS1 Antigen is Important ?

- ✓ Detection of Disease at an early stage.
- ✓ To provide timely & correct disease management to patients.
- ✓ For Effective Vector surveillance and control.

## Clinical significance of NS1 Ag in Dengue Diagnosis

- ✓ Dengue NS1 Antigen can be detected from day 0 as the symptoms appear in patients. \*\*
- ✓ NS1 Antigen can be detected in both primary & secondary dengue infection. However NS1 is difficult to detect once the appearance of anti NS1 Antibodies.
- ✓ Studies have shown that NS1 Antigen is present at high concentrations in the sera of Dengue virus infected patients during the early clinical phase of the disease.
- ✓ Early Diagnosis of Dengue Infection is very necessary, especially in the severe cases of either dengue hemorrhagic fever (DHF) or Dengue Shock syndrome (DSS), which are the major causes of Death.

source: Dengue Guidelines for Diagnosis, Treatment, Prevention & Control, New edition : 2009, WHO, Page No.: 25(\*)  
[http://whqlibdoc.who.int/publications/2009/9789241547871\\_eng.pdf](http://whqlibdoc.who.int/publications/2009/9789241547871_eng.pdf)

source: Guidelines for Dengue Surveillance and Mosquito Control, Second edition(\*\*)  
[http://www.wpro.who.int/publications/pub\\_9290610689.htm](http://www.wpro.who.int/publications/pub_9290610689.htm)

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