

DENGUE FEVER COMBINED PANEL, SERUM

(ICT, Lateral Flow Immunochromatography)

Dengue Antibody, IgG

Dengue Antibody, IgM

Dengue NS1 Antigen

Interpretation

ANTIBODY DETECTED	REMARKS
IgM	Primary Dengue
IgM&IgG	Late Primary / Early Secondary Dengue
IgG	Secondary / Past Dengue

Note: Recommended test is NS1 Antigen by ELISA in the first 5 days of fever. After 7-10 days of fever, the recommended test is Dengue fever antibodies IgG&IgM by ELISA

Comments

Dengue viruses belong to the family Flaviviridae and have 4 subtypes (1-4). Dengue virus is transmitted by the mosquito *Aedes aegypti* and *Aedes albopictus*, widely distributed in Tropical and Subtropical areas of the world. Dengue is considered to be the most important arthropod borne viral disease due to the human morbidity and mortality it causes. The disease may be subclinical, self limiting, febrile or may progress to a severe form of Dengue hemorrhagic fever or Dengue shock syndrome.

NS1 antigen is present in high concentrations in the sera of Dengue infected patients during early clinical phase of the disease. It is detected from the 1st to 9th day after the onset of fever in cases of both Primary & Secondary Dengue.

DENGUE INFECTION	ANTIBODY DETECTED POST ILLNESS	
	IgM	IgG
Primary	5 th -10 th day	14 th day & persists for life
Secondary	4 th -5 th day	1 st -2 nd day