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Seroprevalence and Evaluation of Rapid Immunochromatographic Test and ELISA for the Detection of NS1 Antigen, IgM and IgG Antibodies for Early Diagnosis of Dengue Infection in a Tertiary Care Hospital, South India

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Abstract

Dengue is one of the rapidly emerging global threats. In situations of epidemics and routine cases, early diagnosis is the key to successful management of dengue cases. There are many diagnostic kits available commercially, but their validity is unknown. The standard test is ELISA. In the present study, the test results of rapid immunochromatographic test is compared with ELISA.

Materials & Method

The study was conducted from December 2012 to August 2014 at Shri B M Patil

Medical College & Research centre, Bijapur, Karnataka.

Probable dengue cases were diagnosed as per the WHO criteria and rapid immunochromatographic test and ELISA were performed on the serum samples for the detection of NS1 antigen, IgM & IgG antibodies. Results were analyzed.

Results

A total of 90 cases were enrolled. 36 (40%) cases were found to be positive by rapid immunochromatographic test, whereas 39(43%) cases were found to be positive by ELISA. The sensitivity of rapid test was 92.31% & specificity was 100% along with positive predictive value of 100% and negative predictive value of 94.44% and was compared with other studies.

Conclusion

The study showed that the rapid test can be used as a screening test. Highly suspicious cases should be subjected to investigations with higher sensitivity & specificity(ELISA), though the results take more time.

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Keywords

Dengue, Immunochromatography, Antibody, NS1 antigen, dengue Virus.

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