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### COMPARATIVE DETECTION OF MEASLES SPECIFIC IGM ANTIBODY IN SERUM AND SALIVA BY AN ANTIBODY-CAPTURE IGM ENZYME IMMUNOASSAY (EIA)

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
#### Abstract:

Laboratory diagnosis of acute measles is usually achieved by serology assays for measles-specific IgM antibody. For comparison of measles-specific IgM antibody in saliva and serum, 95 paired blood and saliva samples were collected 1-14 days after the onset of rash. The specimens were tested for specific IgM antibody by an IgM antibody-capture Enzyme Immunoassay (EIA). Measles IgM antibody was detected in 89 (93.7%) of serum samples and in 85(89.5%) of saliva specimens. Of the 6(6.3%) serum samples that were IgM antibody-negative, 2 (2.1 %) of the paired saliva samples were IgM antibody-positive. The sensitivity and specificity of saliva testing compared with serum was 95.5% and 66.7% respectively. Positive predictive value (PPV) and negative predictive value (NPV) of saliva testing were 97.7% and 50.0% respectively and the accuracy of saliva testing was 93.7%. Our results indicate that saliva samples provided Enzyme Immunoassay results that were in good agreement with results from serum samples. Salivary IgM antibody detection is a suitable non-invasive method for diagnosing recent measles infections and epidemiological studies, especially in children.

#### Keywords:

Measle . Enzyme Immunoassay

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