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**Original article:
Correlation of Platelet count and diagnosis of dengue by NS1 antigen and IgM Elisa in tertiary care Hospital**

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**Abstract:**

**Introduction:** Dengue is observed as an acute condition febrile illness, noted as endemic to the India. Apart from the dengue specific parameters, platelet count is the only accessory laboratory test available in the peripheral areas that can support the diagnosis of DHF or DSS. Even in remote areas, platelet counts can be roughly estimated by microscopy. With this background present work was planned to study Correlation of Platelet count and diagnosis of dengue by NS1 antigen and IgM Elisa in tertiary care Hospital .

**Material and methods:** The present study work was done in Rao Nursing Hospital at Pune. Analysis of Dengue data from 1 Jan 2015 to 31 Dec 2015 was done. Samples send for the suspected cases of Dengue fever patients admitted in Hospital  for NS1  antigen ELISA and IgM ELISA . In Addition Platelet Count of the Patients were analyzed . The sample size was determined with help of expert statistician. The cases confirmed as Dengue were included in present study while other suspected cases were rule out and excluded from present work.

**Results:** In our present study we collected platelet count in 329 patients with age mean range 42.20 ( S.D. 12.91) . We found there is significant increased in platelet count after complete treatment . In severe cases there was done platelet transfusion ( 18.22 % cases ) . 14.92 % cases were admitted in ICU. Diagnosis of dengue by NS1 antigen and IgM Elisa in tertiary care found statistically significant ( P < 0.01)

**Conclusion:** We tried to correlate platelet counts in cases of fever with dengue. In 329 cases of dengue we recorded it at entry level and at discharge and we found it is useful parameter and statistically positive correlation was observed.

**Keywords:** acute febrile illness, dengue, platelet count