**Original article:**

**A study of serum total calcium and uric acid levels in preeclampsia**

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**Abstract:**

**Background**: It has been suggested that there is an association between calcium intake and pregnancy-induced hypertension (PIH).The present study concentrate to get significant association of serum uric acid and serum calcium levels with pre-eclampsia and PIH and also between serum uric acid and severity of disease.

**Material and Methods:** 80 Patients diagnosed as having Pre-eclampsia and 80 controls with similar age group were studied after taking their consent. Blood samples were collected under aseptic precautions in plain vacutainer for serum uric acid and serum total calcium estimations. Uric acid estimation was done by Uricase Peroxidase Method while total calcium estimation was done by Arsenazo III end point method on Fully Automated Biochemistry Analyzer Miura 300.

**Results**: The observed mean serum calcium level in preeclampsia patients was 7.09± 0.37 mg/dl as compared to 7.91±0.911 mg/dl in controls. The observed mean serum uric acid levels in preeclampsia was 7.52±0.77 mg/dl as compared to 3.70±0.94 mg/dl in controls

**Conclusion** : Low serum calcium levels could be a useful indicator of the maternal and fetal complication in hypertensive patients.

**Keywords** : serum total calcium, serum uric acid, preeclampsia.