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# Evaluation of serum magnesium levels in pre-eclampsia

**Heera Lal Roy<sup>1</sup> and Susmita Nargis<sup>2</sup>**<sup>1</sup>Khulna City Medical College, Bangladesh<sup>2</sup>Ad-din Sakina Medical College, Bangladesh

**P**re-eclampsia is the most common medical complication of pregnancy associated with increased maternal and infant mortality and morbidity. Reduced serum magnesium level is found associated with elevated blood pressure in preeclampsia. To evaluate serum magnesium level in pre-eclamptic women this cross sectional study was carried out in among 50 pre-eclamptic patients, aged 20 to 40 years, and gestational age ranges from 20 to 40 weeks and 50 age and gestational age matched normotensive pregnant women having no proteinuria. Serum magnesium was measured by colorimetric method. The mean age and mean gestational age of pre-eclampsia was not significantly different from those of normotensive pregnant women ( $p=0.203$  and  $p=0.251$  respectively). The mean body mass indexes of the test patients were significantly different from those of normotensive pregnant women ( $p<0.001$ ). The mean serum magnesium level was  $3.37\pm 2.05$  mg/dl in pre-

eclampsia and  $2.87\pm 1.38$  mg/dl in normal pregnant women; did not differ significantly between the subjects of pre-eclampsia and normal pregnant women ( $p=0.153$ ). Serum magnesium has no association in occurrence of pre-eclampsia.

## Biography

Heera Lal Roy completed his MBBS from Enam Medical College affiliated under Dhaka University. After passing MBBS he was a Faculty Member in Enam Medical College. After that he completed his Postgraduation (MPhil in Clinical Biochemistry) from Sylhet Osmani Medical College under Bangabandhu Sheikh Mujib Medical University. Currently, he is working in Khulna City Medical College as an Assistant Professor in Biochemistry Department. He has also worked as a Head of the Department for one year in the same institution. He had tremendous extra-curricular carrier in his past times. He received a national prize from honorable Prime Minister Sheikh Hasina. He had already published 6 journals in his short carrier.

roy036.hr@gmail.com