

Correlative study of serum hepcidin levels and serum iron reserve parameters in preeclampsia and HELLP syndrome

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Abstract

HELLP syndrome is described as a special group of severe preeclampsia characterized by haemolysis (H), elevated liver enzymes (EL) and low platelets (PL), whereas preeclampsia is a disease of unknown etiology characterized by hypertension and proteinuria after the 20th week of gestation. The objective of the study was to evaluate the level of hepcidin in the serum of the patient suffering from HELLP syndrome and preeclampsia. It was done by competitive sandwich ELISA which assesses the serum level of hepcidin in the forty patients suffering from preeclampsia and HELLP syndrome (as cases) and forty healthy individuals (as control). The results of our study showed that serum hepcidin levels were significantly increased among the cases ($P = 0.00171$) in comparison to control ($P < 0.05$) and transferrin saturation levels were significantly decreased ($P < 0.05$) among the cases ($P = 0.001$) in comparison to controls. The decrease in transferrin saturation indicates that there is low serum iron level among the cases. It was concluded that increased hepcidin level may be the cause of anemia among the cases.



Biography

Surendra Pratap Mishra has his expertise in clinical biochemistry, antioxidants and free radicals in various diseases. He is the author of over 40 papers in reputed journals and has written many book chapters in his area of expertise. He has done MD (Biochemistry) in 2002 from Banaras Hindu University. He is presently serving as Professor & has been served as Ex-Head of the Department in Institute of Medical Sciences at Banaras Hindu University, India. He is also Co Incharge of central facilities for clinical investigation labs at Sir Sundar Lal hospital, BHU.

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