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Pregnancy Associated Plasma Protein-A and Epilepsy

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**Abstract:** In this study, we aimed to investigate the role of pregnancy-associated plasma protein-A (PAPP-A) as insulin-like growth factor binding protein-4 (IGFBP-4) protease in epilepsy patients. We studied 16 epilepsy patients and 10 healthy controls. Serum PAPP-A levels of epilepsy patients ( $6.8 \pm 3.2$  mU/L) were higher than of the control group ( $5.1 \pm 1.9$  mU/L), but the difference was not statistically significant ( $P > 0.05$ ). We concluded that PAPP-A may increase the bioavailability of insulin-like growth factors (IGFs) due to decreased neurogenesis and synthesis of IGFs in chronically epilepsy patients.

**Key Words:** Brain tumor, epilepsy, IGF-I, IGFBP, IGFBP-4, neurogenesis, PAPP-A

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