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The Mediation Effects of Interleukin-6 and Cortisol in Hippocampus In Relationship beween Interleukin-6 and Cortisol in Plasma to Effect of Psychological Stressor on Serotonin Transporter (SERT) Distribution and Apoptotic Index of Hippocampus

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Abstract : The aim of this research is to investigate the Mediation Effects of Interleukin-6 and Cortisol in Hippocampus In Relationship beween Interleukin-6 and Cortisol in Plasma to Effect of Psychological Stressor on Serotonin Transporter (SERT) Distribution and Apoptotic Index of Hippocampus. This study uses data Suparno, using a sample of 24 female rats Rattus Wistar novergicus 10-12 weeks of age 150-185 gram weight, which is exposed to predators in the form of two cats who were selected empirically the level of aggressiveness of the rat before and after treatment, then taken blood plasma as well as neuronal networks (pyramidal neurons) hippocampal CA3 area, with a thick slice preparations 2-4 lm. The variables of this research are: independent variables (Interleukin-6 or IL-6 and Cortisol in Plasma), mediation variables (Interleukin-6 and Cortisol in Hippocampus), and dependent variables (SERT and Apoptotic in Hippocampus). The result shows that (1) there is mediation Effects of Interleukin-6 in Hippocampus In Relationship beween Interleukin-6 and Cortisol in Plasma to Effect of Psychological Stressor on Serotonin Transporter (SERT) Distribution and Apoptotic Index of Hippocampus, (2) there is mediation Effects of Cortisol in Hippocampus In Relationship beween Interleukin-6 and Cortisol in Plasma to Effect of Psychological Stressor on Serotonin Transporter (SERT) Distribution and Apoptotic Index of Hippocampus.
Key words: Interleukin-6, cortisol, SERT, Apoptotic Index, Mediation Effect.

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