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Changes in the Concentrations of Inflammatory and Oxidative Status Biomediators (MIP-1  $\alpha$ , PMN elastase, MDA, and IL-12) in Depressed Patients With and Without Posttraumatic Stress Disorder

**The running title:** Changes in the Concentrations of Inflammatory and Oxidative Status Biomediators in Depressed Patients With and Without Posttraumatic Stress Disorder

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## Abstract

**Background:** Both proinflammatory cytokines and oxidative stress are considered an imbalance between the cellular production of reactive oxygen species and the antioxidant defense mechanisms. An inflammatory response that occurs in depression leads to a synergy between pro-inflammatory cytokines and oxidative stress. This synergy induces common signal transduction pathways that boost the inflammatory cascade. The object of this study was to assess the concentrations of inflammatory and oxidative status biomediators such as MIP-1 $\alpha$ , PMN elastase, MDA, and IL-12 in depressed patients with and without PTSD, and with PTSD alone. **Methods:** The number of participants enrolled in the study was 460. Out of them, 420 were determined to be suffering from depression, and 40 (20 males and 20 females) comprised the control group. The subjects were divided into groups, each consisting of 60 participants (30 males and 30 females) with: mild depression (MD), moderate depression (MOD), severe depression (SeD), MD and PTSD (MD+PTSD), MOD and PTSD (MOD+PTSD), SeD and PTSD (SeD+PTSD), and PTSD alone. At

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