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Imunno-modulatory effect of *Ocimum sanctum* against endosulfan induced immunotoxicity in Wistar Rat

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Abstract

The present experiment was designed to make a systematic study of experimentally induced immunotoxicity of endosulfan and its amelioration with *Ocimum sanctum* in male Wistar rats at 6, 3 and 1.5 mg / Kg b.wt to groups II, III and IV by mixing in ground nut oil for 6 weeks. To the groups V, VI and VII in addition to endosulfan as above mentioned dose, *Ocimum sanctum* was given at 200 mg / kg b.wt daily per orally for the same duration to study immuno modulatory effect. Group I served as oil control and Group VIII as *Ocimum sanctum* control. Significant reduction in the both HA titer and DNCB contact sensitivity score was observed in the endosulfan treated groups indicates endosulfan has immunotoxic effect. But significant improvement in the immunity was observed in the *Ocimum sanctum* treated groups indicates the immuno modulatory property.

Keywords: Immunodulator, Toxicity, Herbal Drug,