
***Experimental study for the protective effect
of *Salvia officinalis* on the level of sex
hormones against the effect of cadmium
chloride***

Mohammed Jassem Mohammed Harwsh

Prof. Assis.Dr. Mustafa Ali Abdul Rahman

Department of Biology/ College of Education / Samara University

Prof.Dr Rafah Razooq Hameed Al-Samarrai

Department of chemistry / College of Education / Samara
University

Abstract

The physiological and histological study was carried out to investigate the protective effect of the crude *Salvia officinalis* extract(CSOE) on the level of sex hormones against the effect of cadmium chloride. Twenty eight local rabbits were used in this study, with weights (1000-1600 g), which divided randomly into 4 groups (7 rabbits in each group). The C⁺ (untreated) as positive control, C⁻ (treated with 0.75mg/kg of CdCl₂)asa negative control,G1 and G2 treated orally with 0.75mg/kg of CdCl₂ and (150 and 200 mg/kg) of CSOE respectively, for 30 days. The level of Testosterone, Follicle Stimulating Hormones (FSH), Luteinizing Hormones (LH) and Prolactin were determined in sera of groups under investigation.

The results indicate that there was no significant change in the levels of serum FSH and LH in groups under investigation as compared with positive and negative control, the level of testosterone was significantly decreased in C⁻ (P< 0.05) as compared with C⁺,andsignificantly increased (P< 0.05) inG2 as compared with C⁺ and C⁻, while the level of prolactin significantly