

عنوان مقاله:

Histological Effect Of Hydroalcoholic Extract Of Clover On Oxidative Stress And The Formation Of Ovarian Follicles In Wistar Rats

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خلاصه مقاله:

Introduction: Nowadays, infertility problems such as lack of follicle formation with various folliclestimulating compounds, antiestrogenic compounds such as clomiphene, tamoxifen, and gonadotropins such as FSH and LH have been treated. The aim of this study was the histological effect of hydroalcoholic clover extract on oxidative stress and the formation of ovarian follicles in female Wistar rats. Methods: In this study, ۲۴ adult Wistar female rats were divided into ۴ separate groups (control group, hydroalcoholic extract of clover ۲۵, ۵۰, and ۱۰۰ mg/kg intraperitoneally for ۲۵ days). On the last day, tissue samples were evaluated by vaginal smear and Giemsa staining. the left ovary was used for pathological sections and hematoxylin-eosin staining for follicle counting. The right ovary was used to measure Methylenedioxyamphetamine (MDA) levels. Ferric Reducing Ability of Plasma was used to determine the total antioxidant capacity (TAC) of serum. Results: A group receiving ۱۰۰ mg/kg clover had higher mean ovarian weight, total antioxidant capacity, LH, FSH, Estradiol, and progesterone concentrations, and lower MDA compared to control and some other doses of clover ($P < 0.05$). but, follicles count did not differ among study groups, except for atretic follicles that were significantly lower in the group receiving ۱۰۰ mg/kg clover in comparison to control ($P = 0.001$). Conclusion: This study shows that clover could significantly justify oxidative stress, inhibiting the breakdown of the ovarian follicles to atretic follicles, and can modify hormonal responses of the rat body in a dose-dependent manner

کلمات کلیدی:

Hydroalcoholic extract of clover, Oxidative stress, Ovarian follicles

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