

عنوان مقاله:

Physiological and Histological Effects of Ginseng Oil on Reproductive Efficiency in Adult Male Rats

محل انتشار:

مجله آرشیو رازی، دوره 78، شماره 1 (سال: 1402)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

Diabetes mellitus (DM) is a collection of metabolic illnesses known as chronic hyperglycaemia. It is one of the most common chronic diseases caused by insulin functions or secretions deficiency, which may cause carbohydrate and lipoprotein metabolism to be disrupted. The pituitary-gonadal axis malfunctions, testicular tissue dysfunctions and poor quality of sperms are all symptoms of DM, which is one of the most common causes of reproductive abnormalities. The current study has been designed to demonstrate the impacts of treatment with Ginseng oil oxidative stress-induced physiological and histological alterations in the male reproductive system of rats with subcutaneous (s/c) injection alloxan. The study was done on ۳۰ mature male Wistar rats randomly divided into three equal groups (n=۱۰). The first group, which served as the negative control, the second group (positive control) injection with (s/c) a single alloxan dosage (۱۲۰ milligrams per kilogram of body weight), the third group was given alloxan and treated with ginseng oil (۰.۵cc at dosage (۵ g /kg body weight daily) for ۳۰ days. The percentage of live sperms increased significantly ($P \leq 0.05$) in the group that was given Ginseng oil orally compared to the alloxan group, the percentage of dead sperms and sperm abnormalities dropped, and the total sperm count was decreased. In the rat testis, (s/c) given alloxan (۱۲۰ mg/kg), aberrant spermatids were present with a decrease in the sperm numbers in the lumens of seminiferous tubules, as well as a division in the irregular germ cells. The current study concluded that Ginseng oil exerted an antioxidant effect on the male reproductive system of rats injected with subcutaneous (s/c) alloxan.

کلمات کلیدی:

Ginseng oil, reproductive system, Allox

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