

عنوان مقاله:

Post-treatment with *Telfairia occidentalis* seed oil attenuates alcohol-induced testicular damage in Sprague-Dawley rats

محل انتشار:

مجله طب تولید مثل ایران, دوره 11, شماره 8 (سال: 1392)

تعداد صفحات اصل مقاله: 10

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خلاصه مقاله:

Background: Long term alcohol use has been implicated in men with sexual disorders including suppression of testosterone levels as well as testicular morphological changes. **Objective:** This research investigated the ability of *Telfairia occidentalis* (T.O.) to attenuate the damaging effects of alcohol on the testicular parameters. **Materials and Methods:** Thirty male Sprague-Dawley rats, 170-190 grams were divided into 6 groups, A to F and treated with distilled water (DW) for the period of 8 weeks (positive control group A), ethanol for 2 weeks followed with DW for 6 weeks (group B) (negative control), ethanol alone for 2 weeks (group C) while others received ethanol for 2 weeks, followed with 200 (group D), 400 (group E) and 600 mg/kg (group F) of T.O. for 6 weeks. **Results:** Testicular histological sections showed that ethanol produced marked loss of testicular germ cells after two weeks of administration. T.O (200 mg/kg body weight) was not able to attenuate this microanatomical distortion when compared with control groups, but at 400 mg/kg body weight, T.O reversed the ethanol's effects with resultant significant increase in sperm count and motility ($p < 0.05$), serum testosterone levels ($p < 0.05$), and testicular weight ($p < 0.05$). However, at 600 mg/kg dosage, there was marked depletion of testicular germ cells with atrophied seminiferous tubules and a decrease in semen parameters and testicular weight. **Conclusion:** Our result suggests that T.O promotes the regeneration of testicular germ cells and improves semen quality at a certain critical dose. Hence, T.O has a potential of reversing ethanol induced testicular damage

کلمات کلیدی:

Telfairia occidentalis, Testis, Histology, Toxicity, Sperm count

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