

عنوان مقاله:

Effects of Bioozax-H on The Testis Structure and Pituitary- Gonadal Hormones in Adult Rat following Treatment with Clinical Dose

محل انتشار:

بیستمین کنگره بین‌المللی بیولوژی تولید مثل و پانزدهمین کنگره بین‌المللی سلول‌های بنیادی (سال: ۱۳۹۸)

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خلاصه مقاله:

Background: The activity of the renin-angiotensin system has an effect on oxidative stress in many tissues, including the testes. Therefore, in this study, the bioozax-H drug, which has an effect on the spermatogenesis activity and Pituitary- Gonadal Hormones in male rats, is further investigated. Materials and Methods: Male adult rat (۲۰۰-۲۵۰ g) were divided into two groups of sixteen each. Control and bioozax-H treated group were administered ۲۰ mg/kg bioozax-H for ۴۵ days, respectively. The animals were sacrificed ۴۵ days after starting treatment. The histological change on germinal epithelium, and Level of hormones was measured by Radioimmuno Assay (RIA) method. Then, tissues were fixed in Bouin's fixative. Sections were cut into ۵ μm thicknesses and stained with Hematoxylin and Eosin (H& E). The achieved results were analyzed in SPSS software using t-test and ANOVA. Results: Count of spermatogenic, Sertoli and Leydig cells significantly decreased in the experimental group in comparison with the control and Control groups ($P < 0.05$). Also in the experimental group, titer of FSH, LH and testosterone hormone decreased significantly ($P < 0.05$) in comparison with Control. Conclusion: Regarding physiological role of Sertoli cells during spermatogenesis, reduction of FSH hormone may lead to negative effects on the sperm production and reproductive potential of male Rat.

کلمات کلیدی:

Bioozax-H, Sperm Viability, Testis, FSH, LH

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