

عنوان مقاله:

Stereological study of the effect of ginger's alcoholic extract on the testis in busulfan-induced infertility in rats

محل انتشار:

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خلاصه مقاله:

Background: In traditional medicine zingiber officinale used to regulate female menstrual cycle and treat male infertility. Recent studies have suggested the possible role of ginger extract in improving the testicular damage of busulfan. **Objective:** The aim of this study was to evaluate the effects of zingiber officinale on the sperm parameters, testosterone level and the volume of the testes and seminiferous tubules by stereological methods. **Materials and Methods:** Fifty rats were divided into four groups. All the rats were given a single intraperitoneally injection of 5mg/kg busulfan solution. The first group was kept as busulfan control, while the other groups were orally administrated ginger extract in graded doses of 50, 100 and 150mg/kg b.wt, for 48 consecutive days. At the end, all animals were anesthetized and their testes and vas deference were removed, fixed, embedded, and stained. The volume of testes and seminiferous tubules were estimated by cavalieri methods. **Results:** The result showed, that zingiber officinale increased the volumes of seminiferous tubule in 100mg/kg treated group compared to control group. Sperm count (706×10^5 and 682×10^5) and the level of testosterone (50.90 ng/mL and 54.10 ng/mL) enhanced in 100 mg/kg and 150 mg/kg treated groups compared to control group ($p=0.00$). **Conclusion:** It seems that zingiber officinale stimulate male reproductive system in induce busulfan infertility

کلمات کلیدی:

Busulfan, Cavalieri method, Ginger extract

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