

عنوان مقاله:

Methandrostenolone High Doses Effects on Sperm Quality in Adult Mice

محل انتشار:

بیستمین کنگره بین‌المللی بیولوژی تولید مثل و پانزدهمین کنگره بین‌المللی سلول های بنیادی (سال: 1398)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Background: Methandrostenolone as Anabolic-androgenic steroid ranks among the drugs most widely abused with the goal of improving athletic ability, appearance, or muscle mass. This drug was developed as synthetic analog of testosterone and are administrated for treating refractory anemia, hereditary angi-oedema, breast cancer and starvation states. The doses of Meth-androstenolone used by athletes is typically in excess of thera-peutic doses. The aim of this study was to determine the effects of high doses of Methandrostenolone on sperm characteristics. **Materials and Methods:** This study was carried on 18 adult male mouse. Animals were divided to 3 equal groups as fol-low: control, M10 and M20 groups that respectively received 0.2 ml distilled water, 10 mg/kgBW and 20 mg/kgBW Methan-drostenolone daily through gavage for 42 days. After treatment period, animals were euthanized by cerebrospinal dislocation and dissected. Cauda epididymis was collected and put in PBS buffer, then cut into pieces. Finally, sperm motility, vitality and count were evaluated. one drop of sperm suspension was spilled on the slide and sperm motility was evaluated with microscope equipped to hotplate and the result was expressed as percentage of motile sperms. Also, eosin-nigrosin staining was used for as-sessment of sperm vitality and sperm count was performed with hemocytometer. **Results:** Evaluation of sperm quality in all groups indicated that M10 and M20 groups caused significant decline in sperm qual-ity in comparison with control group. Also M20 group showed significant decrease in sperm motility, vitality and count com-pared with M10 group. **Conclusion:** Regarding to the considerable diminution of sperm quality in animals induced with high doses of Methan-drostenolone, it may affect the fecundity of the users. So, we suggest specially to the athletes to eschew for applying high doses of Anabolic Steroid .Methandrostenolone

کلمات کلیدی:

Methandrostenolone, Sperm Quality, Significance, Ice

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