

## عنوان مقاله:

Therapeutic Effect of Thymoquinone against Methotrexate-Induced Damage on Sperm Parameters in Mice

# محل انتشار:

اولین کنفرانس ملی پژوهش های نوین علوم طبیعی و زیستی در ایران و جهان (سال: 1396)

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#### خلاصه مقاله:

Background: Methotrexate drug is commonlyused to treat cancer and caused reproductivedamage. Thymoguinone, as a natural component of herbs has many healthy benefits shown inresearches. The present study amid to investigateprobable therapeutic effect of Thymoquinoneagainst Methotrexate- induced damage on spermparameters in mice.Material and Methods:In this experimental study, 30 male mice (25-30g) were divided into five groups of six in each. Themice were received normal saline (control group), Methotrexate (20 mg/kg), Methotrexate(20mg/kg) + Thymoquinone (2, 10 and 20mg/kg)by intraperitoneal injection. On the day after thelast injection, the sperm parameters includingmotility, viability and count of sperms wereassessed. Data analysis was performed using onewayANOVA followed by Turkey test.Results: Methotrexate alone leaded to asignificant reduction in sperm parameterscompared to the control group (P=0.00). In groupstreated with Methotrexate and Thymoquinone, sperm parameters (motility ,viability, countsperm) did not showed any significant differenceswith control group (P=0.00). Conclusion: Thymoquinone, as a potentantioxidant, could compensate for the toxicity induced by Methotrexate. These medical trendmay be useful for diminish the side effects of Methotrexate on male reproductive .system

# کلمات کلیدی:

Thymoquinone, Methotrexate, Sperm, Mice

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