

عنوان مقاله:

Evaluation of Oxidative Stress and Malondialdehyde Levels after Recombinant FSH (Gonal F) Treatment in Oligozoospermia Infertile Men

محل انتشار:

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

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خلاصه مقاله:

Background: FSH plays an important and essential role in spermatogenesis, maintaining and integrating the DNA sperm. Several studies showed that infertile men with normal semen parameters have low levels of stress oxidative while infertile men with abnormal semen parameters have more stress oxidative level. The aim of this study was to evaluate whether the administration of recombinant FSH (Gonal-f) could improve sperm parameters. The secondary endpoints of this study were to evaluate stress oxidative and Malondialdehyde Levels in oligozoospermia infertile men. Materials and Methods: In the present study, an interventional study was carried out with a sampling of 50 infertile men (oligozoospermia). The semen samples were examined in accordance to the 2010 World Health Organization criteria. Then before and after treatment with rhFSH (Gonal F) sperm parameters were determined by light microscopy and oxidative stress were measured with flowcytometry assay. Also Malondialdehyde Level was evaluated with TBA assay. Results: Measurement of sperm parameters (concentration, motility and morphology) in oligozoospermia patients before and after rhFSH treatment was significantly different and improved ($P < 0.001$). Also, the oxidative stress and Malondialdehyde Levels of seminal plasma significantly decreased after rhFSH treatment ($P < 0.05$). Conclusion: According to the above results, rhFSH treatment has a beneficial effect on sperm parameters in oligozoospermia males and dramatically reduces oxidative stress. Also, increasing Malondialdehyde level could be a negative effect of oxidative stress on sperm quality and performance. In this study, Malondialdehyde Level also showed a significant decrease after treatment.

کلمات کلیدی:

Oxidative Stress level, Malondialdehyde level, FSH Treatment, Oligozoospermia

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