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Annals of Biological Research

Abstract

[Impact of BSo-induced oxidative stress on oocyte fertilization: An in-](#)

[vitro study](#)

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Oxidative stress has been linked to cell damage in various systems. The aim of the present study is to investigate the effect of buthionine sulfoximine (BSO) induced oxidative stress on folliculogenesis and oocyte fertility. In the present study 30 adult female mice and 15 adult male mice are used. The mice were divided into 3 groups of control, sham, and experimental. The mice in experimental group received IP injection 2mmol/kg BSO daily for 2 weeks. In the sham group the mice received the solvent of BSO (0.9% Salin). After the BSO treatment, the mice in all 3 groups were superovulated and killed 84 hours later. For determination of GSH the blood was obtained directly from the heart. Oocyte were collected from uterine tubes and inseminated with sperms from cauda epididymis for assessing fertilization rate. Ovaries and uteri were removed, fixed in 10% formalin, embedded in paraffin and prepared for histomorphometric studies. The data were analyzed with ANOVA test. Determination of GSH in the sera should that GSH level decreases after BSO injection ($P < 0.05$). Assessment of fertilization rate revealed a decreasing of fertilization rate in BSO-treated mice. Histomorphometric studies showed that the number of follicles and endometrial thickness and volume of corpora lutei and ovary were decreased significantly (P

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