

عنوان مقاله:

Effect of oxytocin injection on folliculogenesis, ovulation and endometrial growth in mice

محل انتشار:

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خلاصه مقاله:

Background: Induction of ovulation in ART is necessary for superovulation and the side effects of superovulatory drugs are debated. Oxytocin as a natural hormone, has receptors and is synthesized by several reproductive organs. Preovulatory presence of oxytocin receptor mRNAs in granulosa cells indicating a role for oxytocin in follicular development. Objective: The aim of the present study was to investigate the effect of exogenous oxytocin injection on folliculogenesis, ovulation and endometrial growth in mice. Materials and Methods: Forty adult female mice were divided into two groups as control and experimental. The mice at their estrous cycle received 1 IU/gr oxytocin, in experimental, and the same volume of solvent in control groups. Half of the mice in each group are sacrificed at 24 hours post injection and the other half, 48 hours after the injection. Ovarian samples fixed in 10% formalin, embedded in paraffin and sections were stained with H and E and studied using stereological techniques. The data were analyzed with Mann – Whitney test. Results: Microscopic examination revealed that the number and morphological features of follicles at different stages were similar at 24 and 48 hours post injection in both groups. The volumes of the ovaries were similar in both groups at 24 hours. However, at 48 hours, the volume of ovaries, corpora lutea and endometrial thickness, in experimental group, were significantly higher than those in control group ($p < 0.05$). Conclusion: According to the increased volume of corpus luteum in the experimental group, it is concluded that oxytocin injection has a stimulatory effect on induction of ovulation.

کلمات کلیدی:

Oxytocin, Folliculogenesis, Ovulation, Endometrium, Mouse

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