

عنوان مقاله:

Co-treatment of gonadotropin and letrozole in infertile women with endometriosis: A double-blind randomized clinical trial

محل انتشار:

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خلاصه مقاله:

Background: The common causes of infertility in women with endometriosis are folliculogenesis alternation, steroidogenesis and fertilization impairment, oocyte and embryo quality reduction, and implantation defect. **Objective:** To compare in vitro fertilization (IVF) cycle success rates of women with endometriosis who were treated with letrozole + gonadotropin (LA) vs. placebo + gonadotropin (PA). **Materials and Methods:** This double-blind, randomized clinical trial study was conducted with ۹۴ infertile women with endometriosis (۴۷ in the LA group and ۴۷ in the PA group) who were candidates for IVF, from April-June ۲۰۲۱. For all participants, the long agonist protocol was applied. In both groups, gonadotropin-releasing hormone agonist was prescribed in the mid-luteal stage and from the third day of the cycle, and gonadotropin was started and its doses were regulated based on the patient's age, serum anti-Mullerian hormone and follicle-stimulating hormone. From the third day of the menstrual cycle, ۵ mg of letrozole daily for ۵ days prescribed for LA group, while placebo prescribed for PA on the identical days and duration. After embryo transfer, biochemical and clinical pregnancy were measured in the ۲ groups. **Results:** The gonadotropin dosage ($p < ۰.۰۱$) and estradiol level ($p = ۰.۰۲$) on the human chorionic gonadotropin administration day were significantly lower in the LA group compared with in the PA group. Fetus transfer was done for ۳۲ women. No significant differences were detected between the study groups regarding biochemical or clinical pregnancy ($p = ۰.۷۲$ for both). **Conclusion:** Letrozole as a co-treatment drug in the IVF cycle of women with endometriosis can significantly reduce the gonadotropin dosage and

کلمات کلیدی:

,Gonadotropin-releasing hormone, Fertilization in vitro, Letrozole, Endometriosis

گنادوتروپین، روش‌های کمک باروری، لتروزول، آندومتریوز.

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