Conclusions Science changes developed in outcome of chronic inflamation are the typical factor that accomposits the oviduct endometriosis and creates favorable condition for the growth of ectopic lesions. Retaining the proliferative activity of endometriotic foci regardless the localization facilitates the proliferative activity of fallopian tube optibilities, and it confirms the maintaining of hormonal activity of extepic site.

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The effects of curcumin on sperm parameters and nitric oxide production in varicocelized rats

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Objective: One of the proposed mechanism by which varicocele induces its damage is excessive release of nitric oxide (NO). Several studies have shown the role of NO in poor sperm qualiny in infertile patients with variouscle. Scientific studies have demonstrated the beneficial effices of currentin on the sperm parameters. Curcamin as an atomic anticodant can endage penduction of NO. The aim of this study was to desurate the effect of curcumin on NO level and investigate if curcumin can improve sperm parameters in variouscliked male rays.

Methodse Thirsty male Wistar rats were randomly divided into 5 groups, (V1 and V2 (variousele), T (treatment), Sh (dram) and C was control). In groups V1, V2, T and Sh, the left runal vein was partially ligated to induce variousele. In groups V1 and V2, sperm parameters and NO level were evaluated 8 and 16 weeks respectively after variousele induction. Ginags T and Sh received 100 mg/kg curcumin and placeho respectively, daily for Sweeks after 2 months of induced variousele. Sperm parameters (count, motility, viability and morphology), epiddymis and testis weight and also NO concentration were measured.

Results: Sperm parameters (count, motility and viability) in groups V1, V2 and Sh were significantly low in comparison with control and treatment groups. The level of NO was significantly increased in senum of rats in groups V1 and V2, whereas group T rat surum in which curcumin was administered, showed decreased NO levels. The values of the epididymis and testis weight had no significant changes (P2 0.05) in all groups.

Conclusion: Administration of curcumin as a free radical scavenger, can decrease NO level and improve specia parameters in varioscelland male rats.

Keyword: Varicocele, curcumin, sperm parameters, rat

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