



Adding Sildenafil Vaginal Gel to Clomiphene Citrate in Infertile Women with Prior Clomiphene Citrate Failure Due to Thin Endometrium: A Prospective Self-Controlled Clinical Trial

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Abstract:

We aimed to investigate the effect of adding sildenafil vaginal gel to clomiphene citrate (CC) in infertile women with prior CC failure. **METHODS:** This is a self- controlled clinical trial. Women with CC failure (in prior 5 cycles) and thin endometrium were recruited (N = 42). In their 6th (CC only) cycle, women continued on CC 100 mg/ day for 5 days, and had measurement of endometrial thickness and Doppler assessment of uterine arteries on day of HCG administration. In the 7th cycle, women (N = 36) were given usual dose of CC supplemented with sildenafil vaginal gel (5 gm, containing 50 mg sildenafil) twice daily from cycle day 8 to day of HCG administration. Endometrial thickness and uterine artery Doppler were measured on the day of HCG injection. **RESULTS:** In the 7th (CC + sildenafil vaginal gel) cycle, endometrial thickness was significantly higher than in the 6th (CC only) cycle (9.3 mm +/- 3.1mm versus 6.6 mm +/- 1.4 mm, respectively, P =

Keywords:

Anovulation; clomiphene citrate; endometrial thickness; endometrium; infertility; sildenafil vaginal gel.

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