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Journal of

Treatment of Varicocele: Randomized Prospective Study on Open Surgery Versus Tauber Antegrade Sclerotherapy

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The goal of this randomized prospective study in patients with varicocele was to evaluate the outcome following open surgery with inguinal approach versus antegrade sclerotherapy according to the Tauber procedure. From January 2002 to November 2003, we recruited 64 patients with left varicocele for this study. All patients were clinically examined, before surgery and again 8 months postsurgery, by objective examination, scrotal color Doppler ultrasound, and

semen analysis. These patients were randomized in a balanced 4-block pattern: depending on randomization, the patients underwent open surgery (group A: 32 patients) or antegrade sclerotherapy according to the Tauber procedure (group B: 32 patients). At the current follow-up, it is possible to evaluate all the patients for whom we have preoperative and postoperative Doppler imaging and semen analysis. An analysis of seminal parameters shows a statistically significant improvement of the rate of fast progressive spermatozoa (P < .05) and reduction in immotile spermatozoa (P < .01) in those patients who underwent sclerotherapy compared to the patients who underwent open surgery. The outcomes of all other parameters (number and morphology) are fully comparable. Operating time is decidedly shorter for antegrade sclerotherapy (P < .01), but there are no significant differences in terms of early or late postoperative complications. It is widely known that varicocele is a condition found in 9% to 23% of the male population around the world; this percentage rises to 40% among infertile males. The treatment of this condition not only resolves clinical symptoms but also stops continuous damage to spermatogenesis, thereby potentially improving fertility. Our experience demonstrates that sclerotherapy (Tauber procedure) combines shorter surgical time and faster recovery of normal daily activities with significant improvement in sperm motility.

Key words: Tauber procedure, sperm motility

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