

Laser Therapy for Stricture of the Ureter

Introduction and Objective: Each year more countries are involved in the epidemic of tuberculosis (TB). Urogenital TB is the second common form of TB as whole. Unfortunately, the treatment of urogenital tuberculosis is not optimized. Excessive scars as outcomes of TB lead to the loss of function of an organ.

Materials and Methods: There were 150 patients with nephrotuberculosis enrolled in study: 62 (control group) were treated with chemotherapy only and 88 (experience grope) also received laser therapy. TB of ureter was diagnosed in 34 (22.7%), bladder TB - in 37 (24.7 %). Chronic renal failure was in 58 (38.7%).

Results: In the control group the efficiency of therapy was 40.4%; 80.5% were operated on kidney because of loss its function due to progressive stricture of ureter. In experience group polychemotherapy in a combination with laser therapy was effective in 76.5%. In these patients in 57.9% total improvement of functions was fixed on data of radioisotope renography; the stimulation of urine passage was marked in 79%. The secretory function was strengthened in 63.1%. As a consequence, in investigated groups the essential distinction in volume of the operations was marked. In the control group to 41 patients with cavernous and polycavernous nephrotuberculosis, 33 surgical interventions were executed: 24 nephrectomies; 6 cavernectomies of a kidney, from them 3 with a simultaneous plastics of ureter; 3 plastics of ureter. In experience group the widespread destructive process in kidneys was marked at 53 patients. They executed on only 24 operations: 20 nephrectomies; 3 cavernectomies of a kidney; 1 ureterolysis. Due to using laser therapy, 29 patients were cured conservatively, without surgical intervention.

Conclusion: Thus, the application of the low-level laser therapy in complex treatment of nephrotuberculosis allowed raising the efficiency up 36.1%, resulted in quick negativation of urine in 100%, permitted to avoid surgical intervention for 35.2%.