

CHANGING CONCEPTS IN ESWL TREATMENT IN THE LAST TWELVE YEARS IN OUR CENTER

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ABSTRACT

INTRODUCTION: We presented our early results of ESWL treatment in the 9th Congress of on Endourology and ESWL in Vienna in 1991. Twelve years later we evaluated our results and compared our results with the early results.

MATERIAL AND METHODS: In 1991 we evaluated 1096 patients, treated in ten months period, their treatment were completed using Multimed 9200. Twelve years ago the distribution of the stone was 68 % renal, 31.4 % ureteral. Maximum diameters of the stones was 4-9 mm (19.7%), 10-19 mm (44.7 %), 20-29 mm (18.5 %), larger than 30 mm (14.5 %). The auxiliary procedures rate 4.1%. In 12 patients PNL was performed for debulking the stone mass. In the majority of the patients (91 %) were carried out with sedoanaesthesia. General anesthesia was given only to the anxious and pediatric patients. All of the patients were hospitalised for 5-8 hours after the treatment. For 12 years we are using Multimed 2001 (Elmed Inc., Turkey). We recently evaluated 1120 patients. The results are presented.

RESULTS: Twelve years ago fragmentation rate was 97.6 % and stone free rate at third months after the last ESWL session was 65.6% for caliceal stones, 72.3 % for pelvic stones, 81.8 % for upper ureteral, 89.6 % for lower ureteral stones. 18 patients 1.6 % were hospitalized for treatable complications such as pain, fever and obstructive anuria. 5 patients required URS. Recently, because of the complications of ESWL treatment of the large stones, the stone sizes decreased. We preferred PNL for the large stones. Success rate of lower ureteral stones decreased, because we preferred Ureteroscopic intervention if the stone was not broken after two sessions. Patients were not hospitalized after the ESWL treatment.

CONCLUSION: Since 1985 ESWL treatment are used very widely in all over the world. Some concepts were changed during the last ten years. Some of these changes are not depend to the type of lithotripter but to the doctors preferences. New generation lithotripters such as Multimed has some advantages. Multimed 2001 is a safe and effective lithotripter, the results are comparable with the others and can be performed as an outpatient procedure without complications.