

***THE RESULTS OF THE TREATMENT OF 1200 PATIENTS WITH THE TURKISH
LITHOTRIPTOR MULTIMED ESWL***

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As the result of Turkish engineering employed in the creation since 1991, the Multimед which was offered is being utilized in 20 ESWL centers at the present time. The initial clinical trial of this equipment was conducted in our center and at present it is still operational.

Multimed, is spark gap generator operated, with adjustable energy out put of 8 to 20 kW, a digitally controlled ESWL equipment. Through fluoroscopic localization, the stones appearing at any locale of the urinary system may be disintegrated with the equipment.

The average age of the 1200 patients whose treatments were completed by the end of January was 40.7 years (4-68), and female / male ratio was 1.8. The distribution of stones according to location: Kidney stone 54% (648 patients), upper ureter stone 31% (372 patients), central and lower ureter stones 14% (168 patients), and urinary bladder stone 1% (12 patients). Average number of session is 1.8 (1-9), average number of shocks are 1650. When necessary analgesic phenythanlyl was used and general anesthesia was administered to the children.

The disintegration of the stones below 4 mm fragments were considered as acceptable fragmentation. Accordingly, the fragmentation ratios in accordance with the locate are as follows: kidney stones 96.5%, upper ureter stones 94.7%, central and lower ureter stones 68.9% and urinary bladder stone 87.5%.

Additional treatment ratio during the pre and post Multimед treatment was 2%, and the complication ratio was under 1%.

Multimed, due to its simple operation, lower cost and already proven effectiveness, along with being manufactured in Turkey, service and maintenance availability is an equipment which would be a matter of preference over the other ESWL equipment.

MULTI CENTER ESWL RESULTS

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The treatment results for 637 patient from two separate centers subjected to Spark Gap ESWL (Multimed) treatment are offered. The study includes the patients treated between the months of August 1994 through January 1996 whose treatments were completed. Of the patients, 512 had single, and 125 had more than one stones. The multi stoned 125 patients have shown in 304 localization at the top, bottom, lower calyx, and urethra stones.

Stones with dimensions under 2 cm² and stones with dimensions larger than 2 cm², have shown a disintegration ratios of 94.7% and 77% and 77% respectively. In the two cases where bilateral obstruction has developed Double J catheter were used. Also development of subcapsulary hematoma in one patient, urosepsis in another patient, and stone tract development in 18 patients requiring treatment was detected. The stone tract treatment was performed by ESWL application to the extreme distal stone.

The ESWL results attained has shown, regardless of the localization and dimensions of the stone, that such treatment is effective and safe.

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