THESES OF DOCTORAL (PhD) DISSERTATION

MODERN SURGICAL TREATMENT
OF URETERAL CALCULI

Dr Antal Farkas

DEPARTMENT OF UROLOGY
MEDICAL AND HEALTH SCIENCE CENTER
UNIVERSITY OF DEBRECEN
2007.
THESES OF DOCTORAL (Ph.D.) DISSERTATION

MODERN SURGICAL TREATMENT OF URETERAL CALCULI

Dr Antal Farkas

CONSULTANT: DR. CSABA TÓTH, PROFESSOR
DR. ATTLA VARGA

DEPARTMENT OF UROLOGY
MEDICAL AND HEALTH SCIENCE CENTER
UNIVERSITY OF DEBRECEN

Summary

In my thesis, I have outlined the up-to-date treatment of ureteroliths. Based on our own experience, results and instrumentation available in Hungary today we have elaborated a protocol for the removal of impacted ureteral stones, which can be used at any department of urology if one has experience in endoscopy. Impacted stones are the ones which cannot be removed from the uropoietic system using extracorporeal shock wave lithotripsy (ESWL), or antegrade or retrograde ureteroscopy (URS), which are regarded to be classical techniques today.

I was the first in Hungary to process the results achieved in the treatment of ureteroliths using Ho:YAG laser, which, despite the lack of the most modern gracile endoscopes, are close to the results in the international literature. The success rate related to all portions of the ureter stands at 92.4%.

I have described in detail all of the operative techniques (direct percutaneous ureterolithotomy – PCUL; laparoscopic ureterolithotomy – LUL) and their efficiency included in the protocol for the removal of impacted ureteroliths. Owing to the spread of laparoscopy, many think PCUL has come to an end. In our opinion, however, the two techniques complement each other. Their well-distinguished indications are also listed in the theses.

We have elaborated a technique that we call ostiolithotomy. The technique enables us to remove small juxtavesical stones or stones impacted in the ureteral orifice, which cause complaints and refuse to pass out of the body. In selected cases the intervention can be made without anaesthesia and it does not require complicated instrumentation either.