Laparoscopic Pyelolithotomy: Indications and Technique

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*Purpose:* Laparoscopic pyelolithotomy, although uncommonly performed, may be considered in patients, who have a large single renal-pelvic calculus, have renal anomalies, and are poorly compliant. We present our experience with this procedure in five patients.

*Patients and Methods:* Five patients underwent laparoscopic pyelolithotomy for a large renal-pelvic calculus. Four cases were solitary pelvic (two of them having additional small calyceal stones) and one was staghorne with a mean size of 3.6 mm² (range 2.6?5.2 mm²). All were approached transperitoneally with Dissection of renal pelvis like open surgery with v shaped incision stone extraction.

*Results:* All cases were completed laparoscopically. The length of surgery was 135, 112, 95, 92, and 76 minutes. There were no minor or major complications, and the estimated blood loss was <50 mL in all cases. All patients were discharged on postoperative day 3 with the drains removed. Two patients were stented (one with ureteric catheter which removed after 3 days and one with JJ for 4 weeks). The remaining patient was not stented. Three patients were stone free on follow-up imaging, one patient with multiple calyceal stones, and one with small residual fragment which treated by SWL third day post operative.

*Conclusions:* Laparoscopic pyelolithotomy can be done safely, effectively, and efficiently with proper patient selection and adherence to standard laparoscopic surgical principles.