

AB068. Image-guided embolization needles placement for identification of completely endophytic renal mass during laparoscopic partial nephrectomy

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Background: To evaluate a new technique for identification of completely endophytic renal mass during laparoscopic partial nephrectomy.

Methods: Our study divided into two parts, animal experiment and clinical application. Ten kidneys of boars were used for the experiment, two needles were inserted into kidney to identify tumor guided by Ultrasonography. Between January 2016 and October 2017, eight patients

with completely intraparenchymal (endophytic) renal masses were underwent laparoscopic partial nephrectomy by a single surgeon. Cases were grouped based on surgical approach. Operative time, warm ischaemia time, surgical margin status, intraoperative and postoperative complications were recorded.

Results: All the patients were performed surgeries safely and successfully with no intraoperative complications. The operation time was 95 min (86–125 min) for group 1, and 97 min (88–117 min) for group 2. The warm ischaemia time was 33 min (28–37 min) *vs.* 24 min (21–30 min). All the surgical margins are negative, and without postoperative complications.

Conclusions: The new technique is safe and effective, and easy to operate. it could be promoted to application.

Keywords: Image-guided; embolization needles

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