

ADVANCED LAPAROSCOPIC SURGICAL TRAINING USING THE GOYRI-O'NEILL PERFUSION TECHNIQUE (GOPT) OF CADAVERIC EMBALMING.

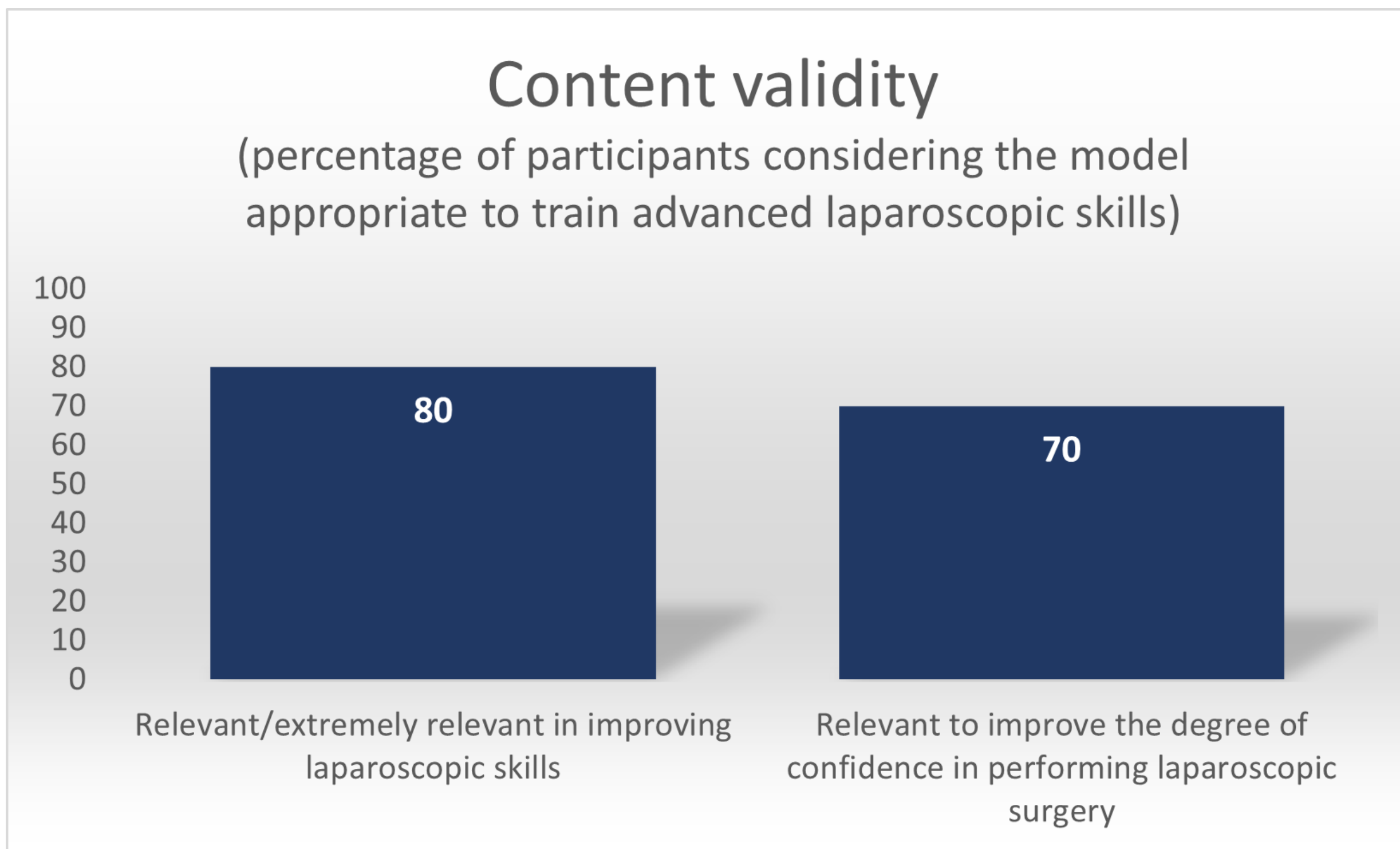
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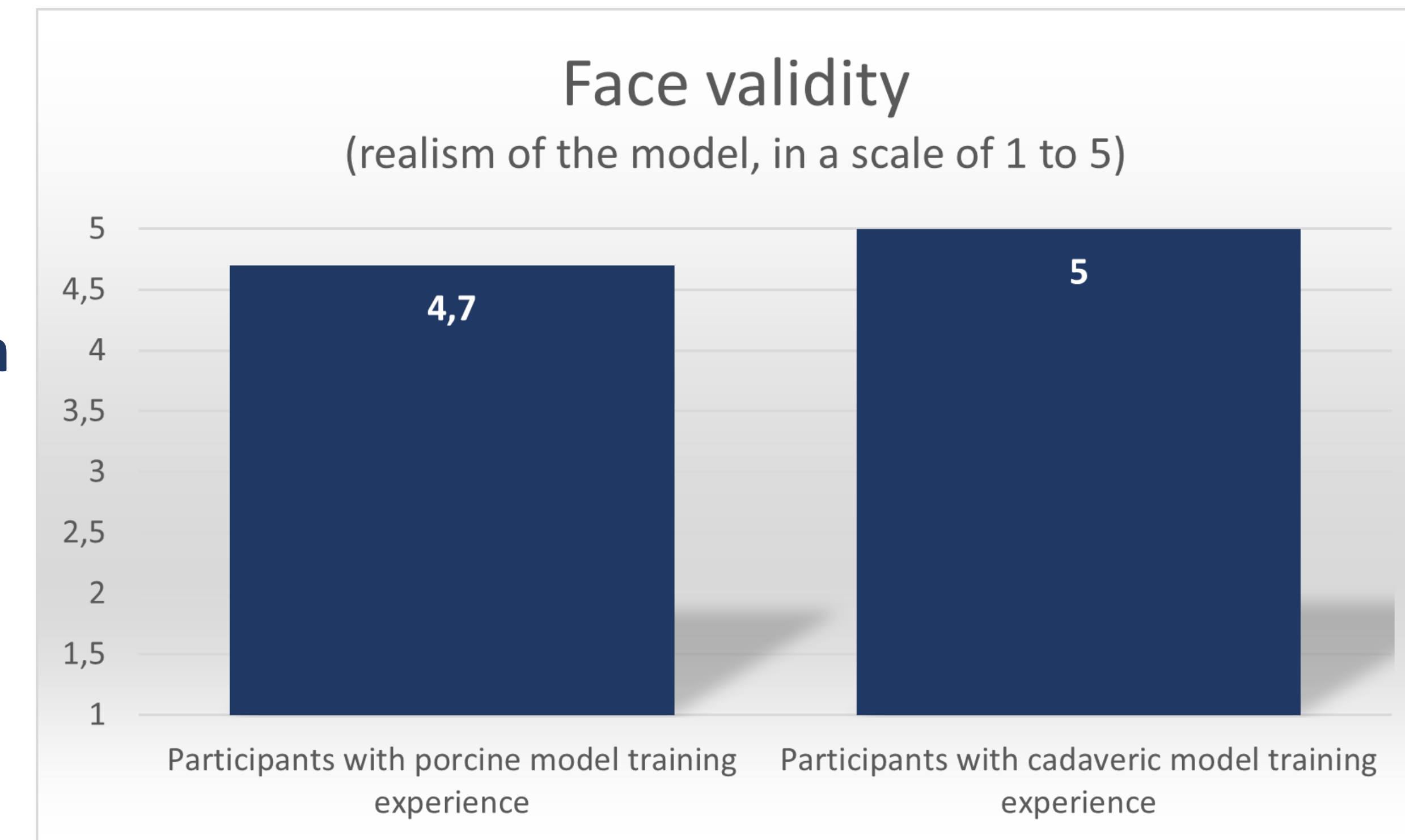
INTRODUCTION/PURPOSE: Laparoscopy has become the standard surgical approach for many urological conditions. However, due to the steep learning curve, achieving proficiency in laparoscopy requires considerable training. Several artificial models have been developed for basic and intermediate laparoscopic training. Nevertheless, there is no consensus on the best model to train advanced laparoscopic skills. We aim to evaluate the usefulness of the GOPT of cadaveric embalming to train advanced laparoscopic surgery in Urology.

MATERIAL & METHOD: Cadaveric specimens were provided, in accordance with the previously designed protocol approved by the National Committee for the Sciences of Life and in line with the principles of the Declaration of Helsinki. Participants were divided into non-experts (≤ 50 laparoscopic procedures) and experts (> 50 laparoscopic procedures). The GOPT cadaveric model was tested using several procedures of the upper and lower urinary tract (pyeloplasty, adrenalectomy, partial nephrectomy, radical nephrectomy, retroperitoneal lymph node dissection, radical prostatectomy, pelvic lymph node dissection and radical cystectomy). Participants rated their experience, with an emphasis on realism (face validity), and the appropriateness to train advanced laparoscopic skills (content validity). Reliability was calculated by comparing the mean score between two different editions.

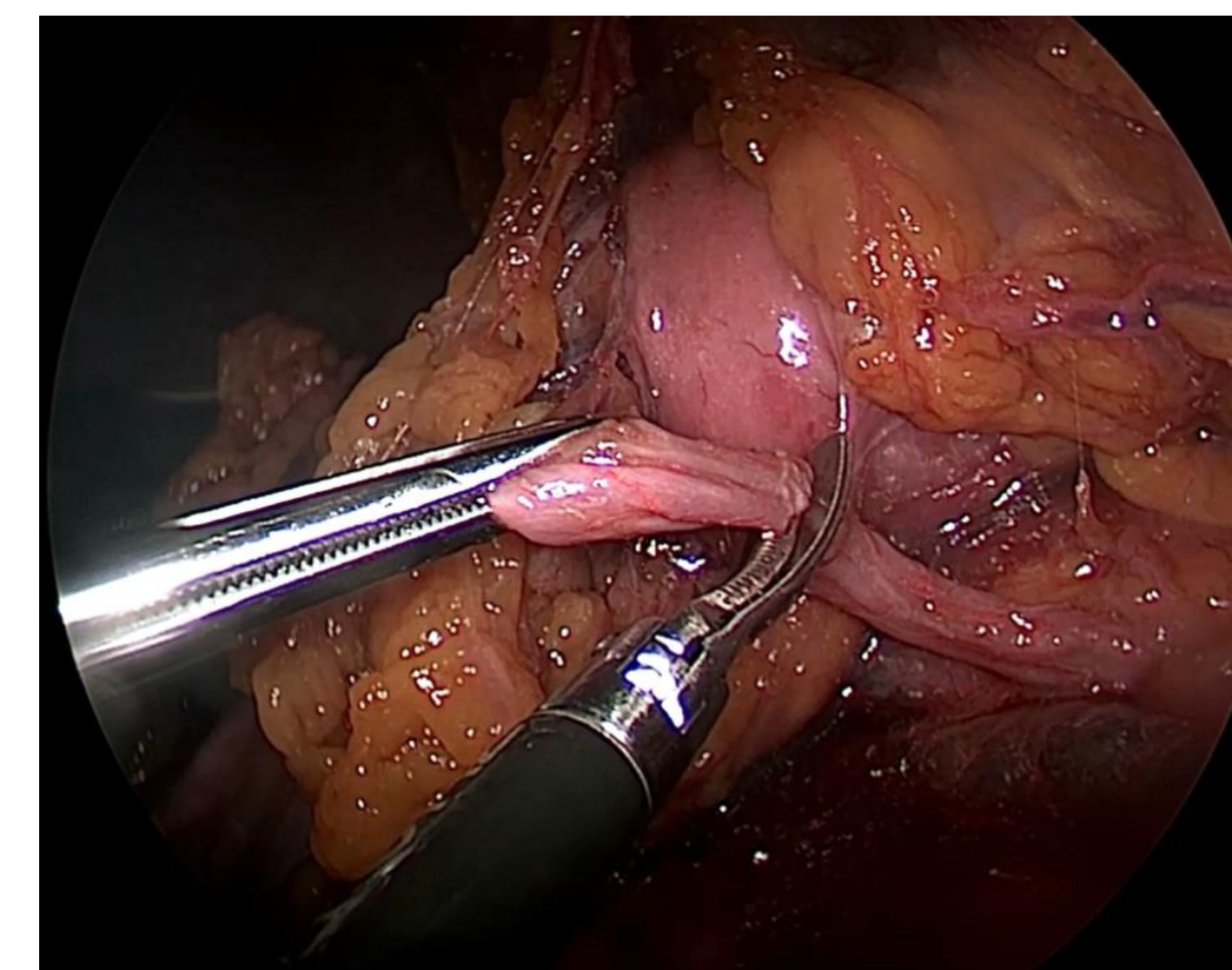
12 experts (> 50 laparoscopic procedures) 10 non-experts (≤ 50 laparoscopic procedures)



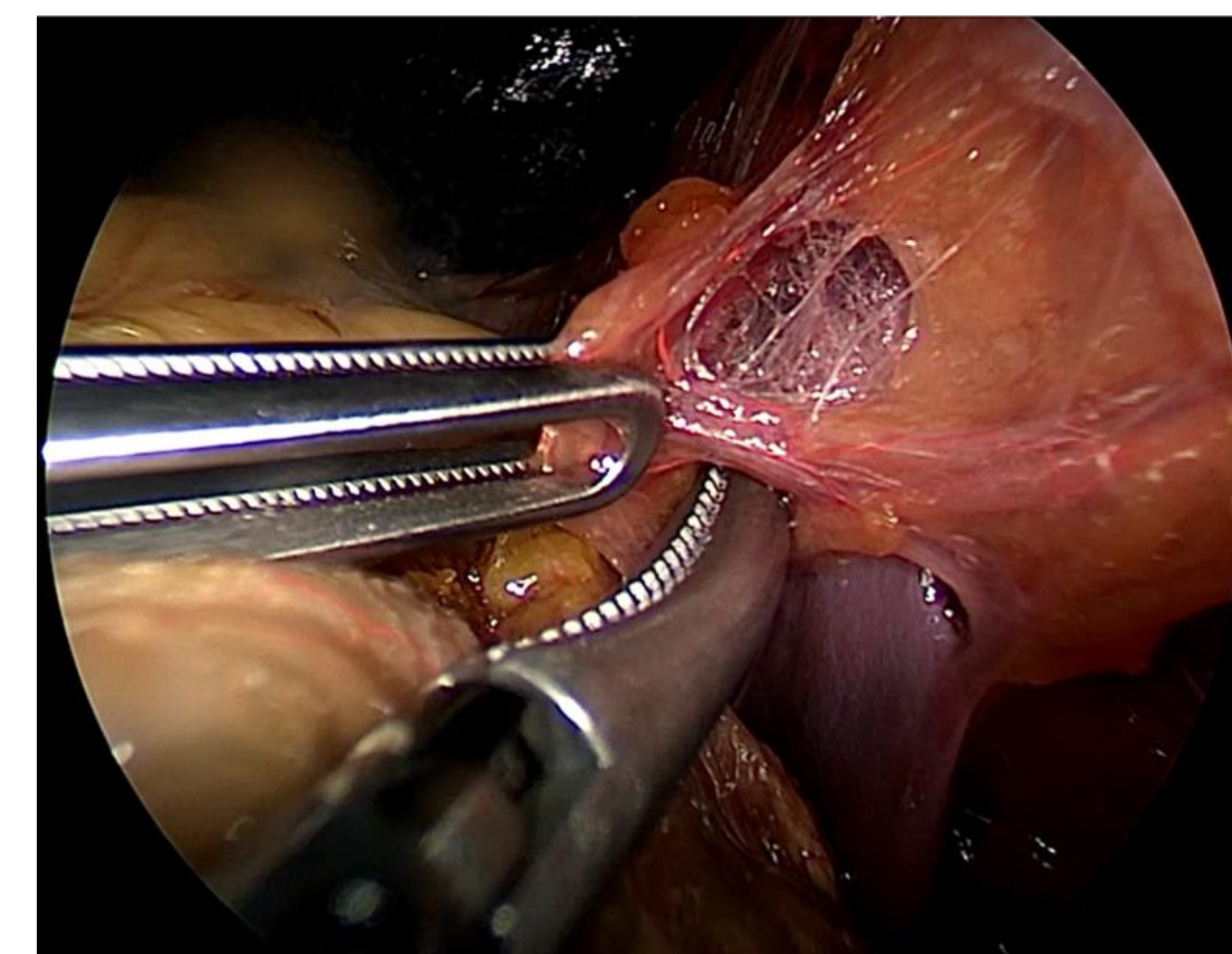
**Similar results
were obtained in
both editions of
the course
(reliability)**



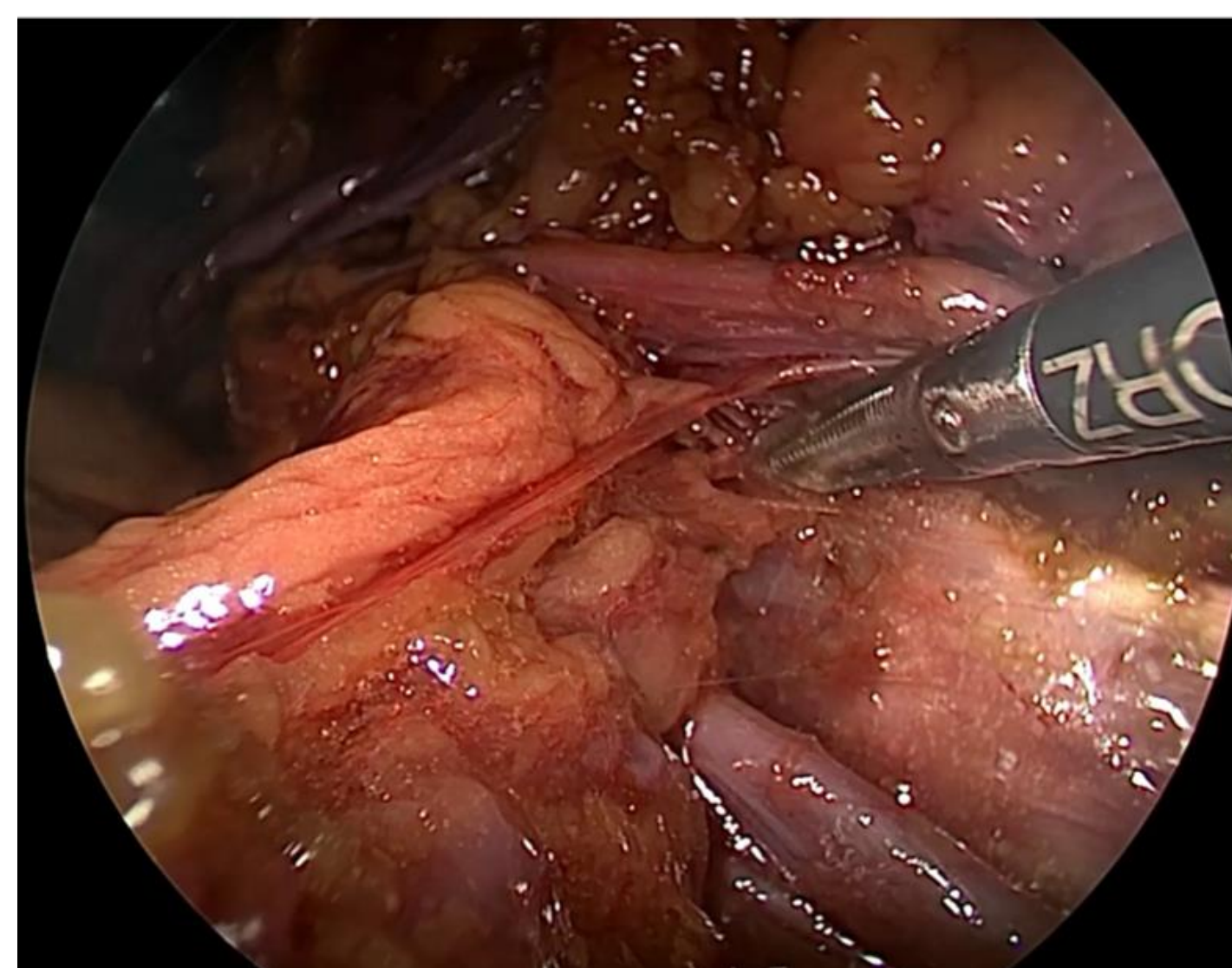
Pyeloplasty



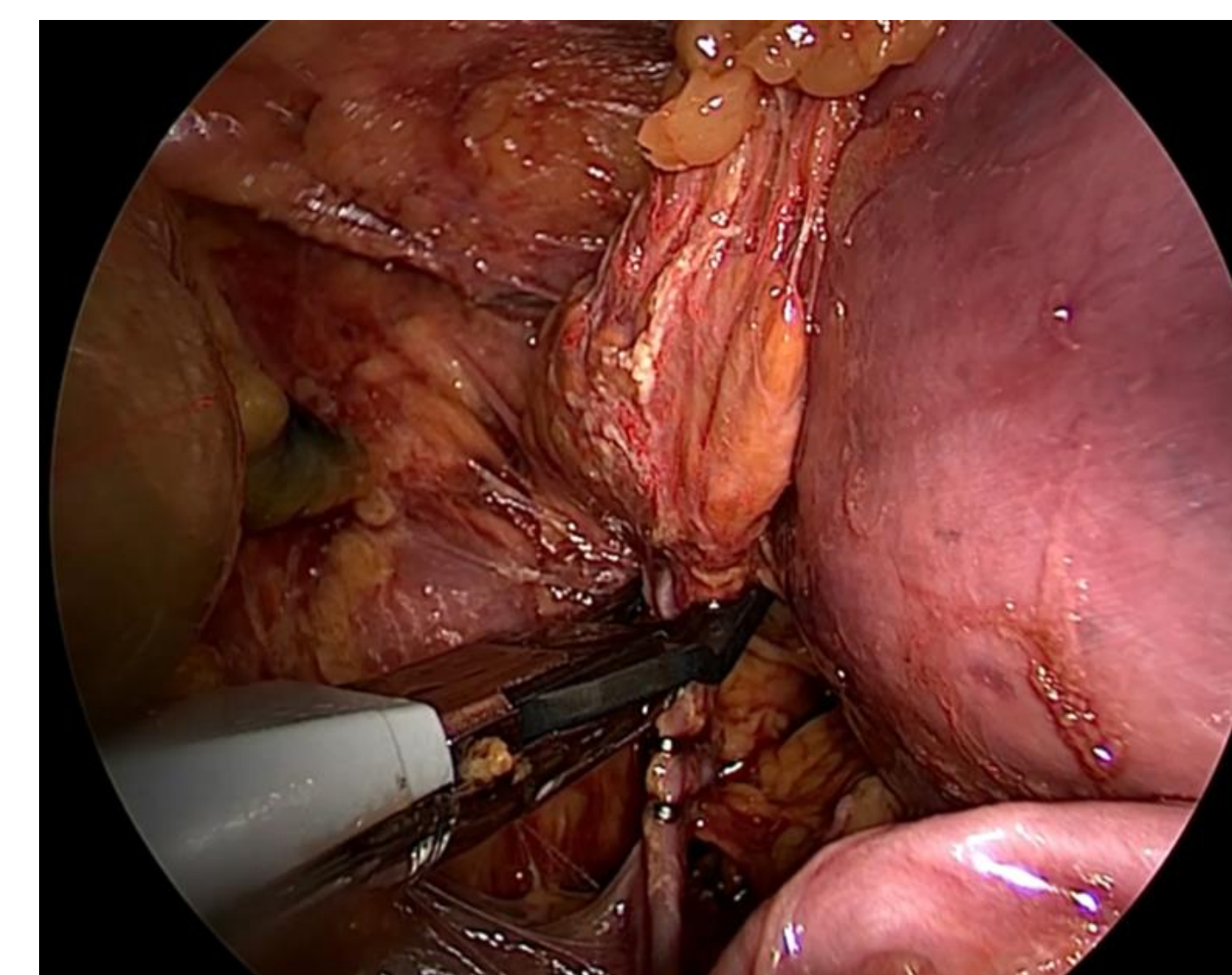
Radical nephrectomy



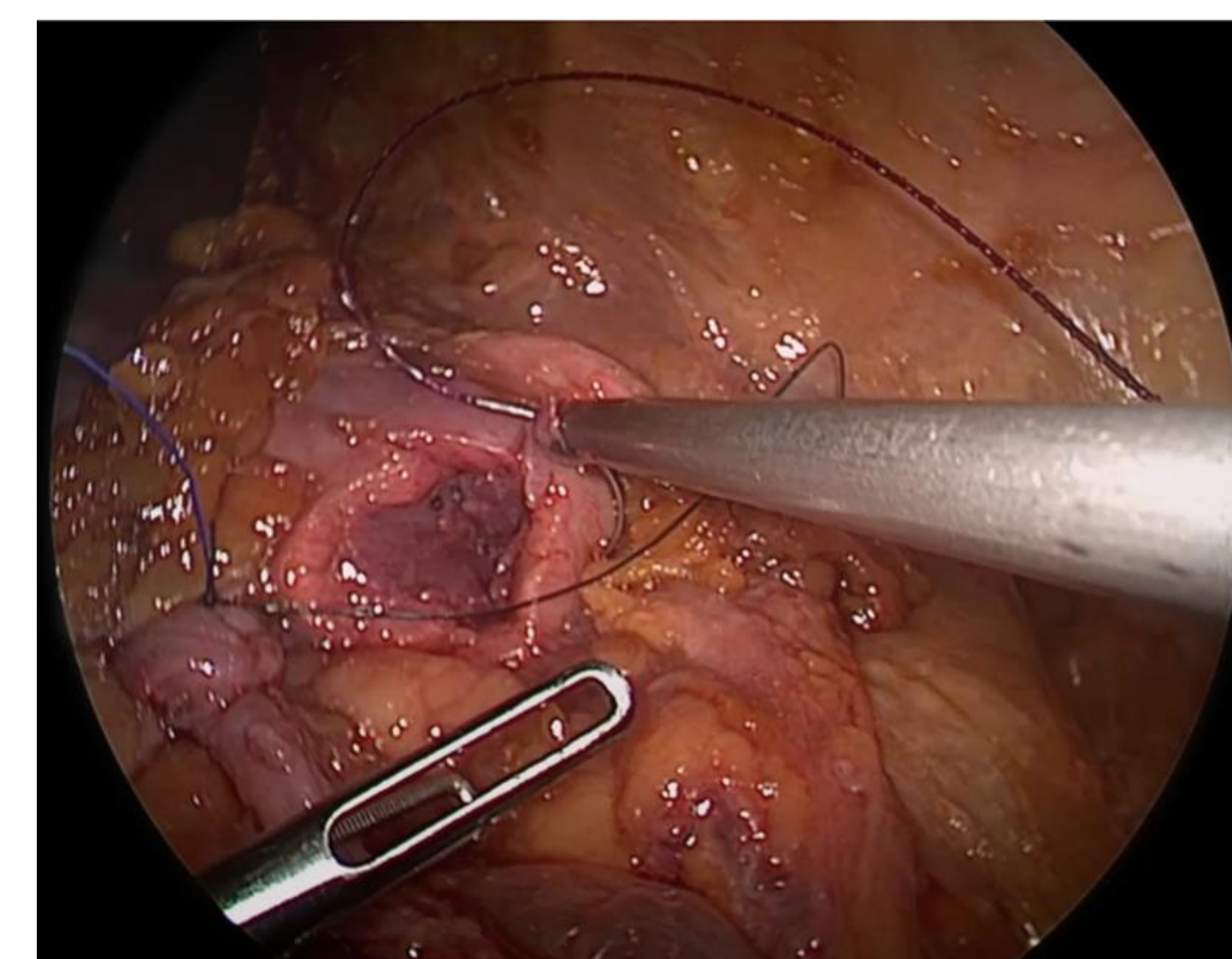
Retroperitoneal LND



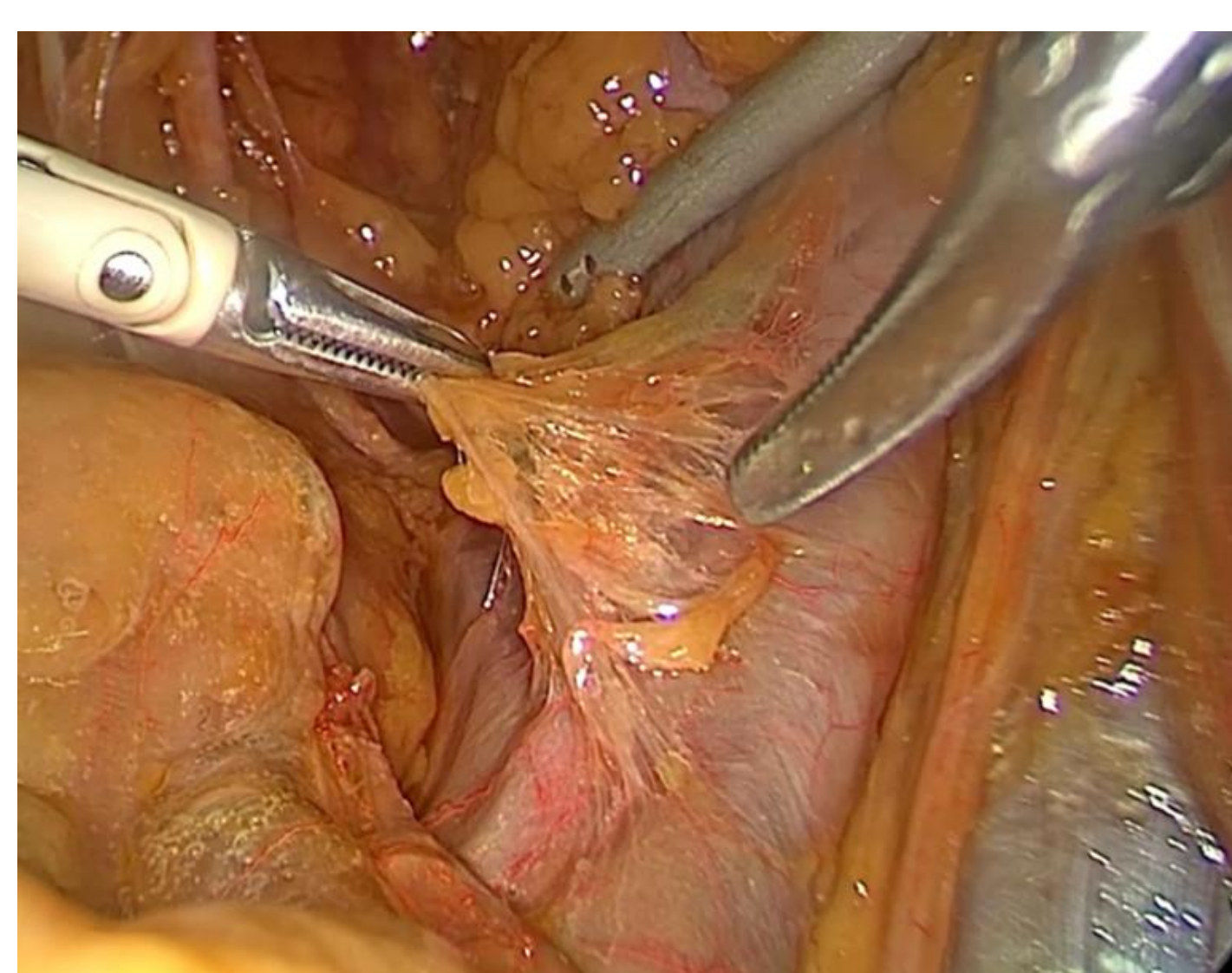
Adrenalectomy



Partial nephrectomy



Pelvic LND



CONCLUSIONS: This study suggests reliability, face and content validity of the GOPT of cadaveric embalming as training model for advanced laparoscopic surgical training in Urology. Moreover, our results suggest that the GOPT may provide more realistic surgical training than the other models available.