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Institute for Urology and Reproductive Health



Laparoscopic partial nephrectomy with blue diode, thulium fiber and hybrid lasers. In vivo trial on porcine kidney

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Objective, Materials and Methods

 The objective of this study was to evaluate the efficacy and safety of a novel blue diode laser (BDL) and thulium fiber laser (TFL), as well as hybrid (BDL + TFL) laser for LPN





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Results

BDL:

TFL:

- intensive smoke generation
- no carbonization
- feasible resection
- intensive smoke generation
- strong carbonization
- slow cutting
- BDL+TFL: successful resection
 - no carbonization
 - acceptable hemostasis

