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Author: Jorge Rioja, Esther Morcillo, José P. Novalbos, Miguel A. Sánchez, Federico Soria, Francisco Pérez, Idoia Diaz-Güemes, Maria Pilar Laguna, Francisco Miguel Sanchez-Margallo, Federico Rodriguez-Rubio Cortadellas

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Laparoscopic Partial Nephrectomy With KTP Laser Versus Conventional Laparoscopic Partial Nephrectomy: An Animal Randomized Controlled Trial

Jorge Rioja^{a*}, Esther Morcillo^b, José P. Novalbos^c, Miguel A. Sánchez^b, Federico Soria^b, Francisco Pérez^b, Idoia Diaz-Güemes^b, Maria Pilar Laguna^d, Francisco Miguel Sanchez-Margallo^b, Federico Rodriguez-Rubio Cortadellas^e

^aDepartment of Urology, University Hospital Miguel Servet, Zaragoza, Spain

^bMinimally Invasive Surgery Center “Jesús Usón,” Cáceres, Spain

^cDepartment of Bio-medicine, bio-technology and public health, Cádiz University, Spain

^dDepartment of Urology, AMC University Hospital, Amsterdam, The Netherlands

^eDepartment of Urology, University Hospital Cádiz, Cádiz, Spain

*Corresponding author. Department of Urology, University Hospital Miguel Servet, Pº Isabel la Católica 1-3, Zaragoza, Spain.

E-mail: jrioja@unizar.es

Tel: +34 976 765599

Fax: +34 976765614

Running head: KTP vs Conventional LPN: An Animal RCT

Abstract

Objective: To explore the feasibility, safety, and short-term results of KTP laser laparoscopic partial nephrectomy (KTP-LPN) versus conventional laparoscopic partial nephrectomy (C-LPN).

Material and methods: 30 large white female pigs were randomized to KTP-LPN or C-LPN. Laparoscopic radical right nephrectomy was performed, and an artificial renal tumor was placed in the left kidney in 3 locations. A week later, 15 pigs underwent C-LPN and 15 underwent KTP-LPN. All C-LPNs were performed with renal ischemia. A 120-W setting was used, without arterial clamping in the KTP-LPN group. Follow-up was done at day 1, weeks 3 and 6. Retro-

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