



# Robotic partial nephrectomy after pazopanib treatment in a solitary kidney with segmental vein thrombosis

Juan D. Garisto <sup>1</sup>, Julien Dagenais <sup>1</sup>, Daniel Sagalovich <sup>1</sup>, Riccardo Bertolo <sup>1</sup>, Brian Rini <sup>1</sup>, Jihad Kaouk <sup>1</sup>

<sup>1</sup> Glickman Urological & Kidney Institute, Cleveland Clinic, Cleveland OH, USA

## ABSTRACT

**Objective:** To demonstrate our surgical technique of robotic partial nephrectomy (RPN) in a patient with a solitary kidney who received neoadjuvant Pazopanib, highlighting the multidisciplinary approach.

**Materials and Methods:** In our video, we present the case of 77-year-old male, Caucasian with 6.6cm left renal neoplasm in a solitary kidney. An initial percutaneous biopsy from the mass revealed clear cell RCC ISUP 2. After multidisciplinary tumor board meeting, Pazopanib (800mg once daily) was administered for 8 weeks with repeat imaging at completion of therapy. Post-TKI image study was compared with the pre-TKI CT using the Morphology, Attenuation, Size, and Structure criteria showing a favorable response to the treatment. Thereafter, a RPN was planned<sup>3</sup>. Perioperative surgical outcomes are presented.

**Results:** Operative time was 224 minutes with a cold ischemia time of 53 minutes. Estimated blood loss was 800ml and the length of hospital stay was 4 days. Pathology demonstrated a specimen of 7.6cm with a tumor size of 6.5cm consistent with clear cell renal carcinoma ISUP 3 with a TNM staging pT1b Nx. Postoperative GFR was maintained at 24 ml / min compared to the preoperative value of 33ml / min.

**Conclusions:** A multidisciplinary approach is effective for patients in whom nephron preservation is critical, providing an opportunity to select those that may benefit from TKI therapy. Pazopanib may allow for PN in a highly selective subgroup of patients who would otherwise require radical nephrectomy. Prospective data will be necessary before this strategy can be disseminated into clinical practice.

## ARTICLE INFO

 **Juan Garisto**

<https://orcid.org/0000-0001-9530-4039>

Available at: [http://www.int brazjurol.com.br/video-section/20180240\\_Garisto\\_et\\_al](http://www.int brazjurol.com.br/video-section/20180240_Garisto_et_al)

Int Braz J Urol. 2019; 45 (Video #18): 859-859

Submitted for publication:

March 31, 2018

Accepted after revision:

October 14, 2018

Published as Ahead of Print:

February 10, 2019

## Correspondence address:

Jihad H. Kaouk, MD

Glickman Urology and Kidney Institute, Cleveland Clinic

9500 Euclid Ave, Q10

Cleveland, OH 44195, USA

Telephone: +1 216 444-2976

E-mail ID: [kaoukj@ccf.org](mailto:kaoukj@ccf.org)