



Robotic adenomectomy using a laparoscopic dissector

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ABSTRACT

Introduction: Only few reports are known about the use of robotic surgery for prostate benign enlargement. The robotic surgery can be improved by laparoscopic tricks. We show a video of robotic adenomectomy where a laparoscopic dissector is used to help create the plane between prostatic capsule and adenoma.

Materials and methods: A 62 years old male had severe urinary flow outlet obstruction. Medical therapy was not effective. Ultrasound detected a 92gr enlarged prostate with a large middle lobe. Robotic assisted adenomectomy was scheduled. The procedure followed this sequence: opening of Retzius space, superficial suture of the Dorsal vein complex, horizontal cystotomy. The plan was created with electrocautery and blunt dissection with the laparoscopic dissector. Haemostatic sutures were placed between prostate fossa and the posterior bladder neck and closure of the cystotomy.

Results: Whole operation time was 160 minutes, with a blood loss of 80cc. There was no perioperative or post-operative complication. Catheter was removed after 4 days. Post-operative uroflowmetry shows a peak flow of 30ml/sec. Pathological examination is negative for tumor. After 60 days IPSS was 8.

Conclusion: Robotic prostate adenomectomy using the laparoscopic dissector is a safe and effective minimally invasive treatment for benign prostatic enlargement. It is a novel technique to find and dissect the plane between prostatic adenoma and capsule. This could be one more use of laparoscopic technology to improve surgical outcomes in robotic field.

CONFLICT OF INTEREST

None declared.

ARTICLE INFO

Available at: http://www.intbrazjurol.com.br/video-section/20170609_Goncalves_et_al
Int Braz J Urol. 2018; 44 (Video #17): 1051-1051

Submitted for publication:
November 15, 2017

Accepted after revision:
February 18, 2018

Published as Ahead of Print:
March 15, 2018

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