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Robotic-assisted laparoscopic partial nephrectomy (RAPN): A single centre Indian experience

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Abstract

Background: We summarise our experience with RPN emphasising on learning curve, techniques and outcomes.

Patients and methods: A retrospective chart review of 241 patients was done. The parameters analyzed were demographics, tumor characteristics, operative details, postoperative outcome and follow-up.

Results: 243 renal units in 241 patients (64 males and 177 females) underwent RAPN. The mean age was 51.48 (18-83) years. The mean tumor size was 5.92 (1.3-11.5) cm. operative time was 176.97 (70-350) min.; mean warm ischemia time was 22.62min (0-47). 8 renal units in 7patients were operated with the zero ischemia There was 1 recurrence. The average nephrometry score was 6.77. The complications were

Clavien grade 1 (n=5, Fever), Clavien grade 3 (n=5, 2-need for exploration & 3 need for post-operative intervention for urine leak), Clavien grade 5 (n=1), immediate post-operative myocardial infarction). 6 patients developed chronic kidney disease over a period of 10 years. eGFR trend was preoperative 101.25 (17.9-182.4), 1 month 88.30 (0.69-177.4), 1 years 99.71 (11.3-167).

Conclusion: Our results suggest that RAPN is safe. RAPN offers excellent oncologic control and disease free status in long-term follow up. Nephrometry score is a good tool to predict the challenges anticipated during surgery. RAPN helps in preserving the renal function in long term

Biography

Mahesh Desai is a graduate of B.J. Medical College under the auspices of Pune University, India, Dr. Mahesh Desai pursued his post-graduation (MS) studies from the same Alma Mater. Trained in Urology, he was a recipient of the Fellowship of the Royal Colleges of Surgeons of London and Edinburgh (FRCS) in 1973. A decade later, he took over as the Chairman of the Department of Uroglogy at Muljibhai Patel Urological Hospital (1983 - June, 2010), following which he served the Hospital as its Medical Director (June, 2010 - August, 2016). He now sits as the Managing Trustee of MPUH and Honorary Managing Director of Muljibhai Patel Society for Research in Nephro-Urology (February 2001) and the Director of the Jayaramdas Patel Academic Center. Dr. Desai has been an awardee of the prestigious Dr. B.C. Roy National Award (2000) in "Recognition of the best talents in encouraging the development of specialities in different branches of Medicine" by the President of India.



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