



A retrospective analysis of the oncological outcomes of T3a Renal Cell Carcinomas which have undergone Partial Nephrectomy

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Abstract:

Aim: This single centre, retrospective study aims to determine whether performing a partial nephrectomy is oncologically safe for stage T3a renal cell carcinomas.

Introduction: Radical Nephrectomy is the gold standard surgical approach for T3a Renal Cell Carcinomas. However, a small but not insignificant number of patients pre-operatively staged cT1/cT2 are treated with a partial nephrectomy but at final pathology are subsequently upstaged to pT3a.

Materials and Method: Data was collected retrospectively using the Royal Free database. 16 of the 306 partial nephrectomies demonstrated stage T3a at final histology. Primary outcome analysed was Recurrence-Free Survival. Secondary outcome analysed was Renal Function Preservation (post-operative eGFR/pre-operative eGFR).

Results: Of the 16 patient, 14 patients presented with localised T3a RCC at presentation with an average follow up of 17.3 months. No evidence of local or metastatic recurrence was found in this series of 14 patients. 2 patients were excluded as they presented with metastatic disease. This study found a respectable Renal Function Preservation. In this series, the eGFR±SD (mL/min/1.73m²) was 77.3±18.8 pre-operatively and 69.7± 19.7 post-operatively, displaying a Renal Function Preservation (post/pre eGFR) of 90.2%.

Conclusion: This pilot study concluded that a partial nephrectomy is oncologically safe for certain T3a kidney renal cell carcinomas. The main implications are that: 1) Current practice should shift and start considering a partial nephrectomy in certain selected patients with clinical T3a tumours, especially in patients with imperative reasons for nephron-sparing surgery as long as a negative margin can be achieved. 2) This study seeks to advise that surgeons should not be deterred from carrying out a partial nephrectomy for fear of pathological upstaging.

Biography:

Professor Dr. Punit Gupta is MBBS, MD (Medicine), DM (Nephrology) and PhD. He is the Honorary Nephrologists to the Governor of Chhattisgarh State since 2009. He is Chairman and Members of many important academic and management committees of various Government Medical Institutions in the country and the Pt. Deen Dayal Upadhyay Health Scienc-



es University, Raipur. He has guided over 100 Postgraduate & Technologist student for their thesis & Project in Nephrology & Research and also served as an examiner for the university examinations. A man of researches and publication, he has presented more than 160 research papers and abstracts on Kidney Diseases in Tribal populations at Renowned National and International Conferences.

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