

Methods: The hospital in-patient enquiry system was used to identify all kidney cancer surgeries performed between January 2009 to December 2018. Tumour and patient characteristics were analysed in combination with type of surgery performed.

Results: 347 patients underwent operative management for renal cancer. The average age at diagnosis was 64 years, and the average length of stay was 4.2 days and 7.3 for MIS and open surgery respectively.

A total of 195 radical nephrectomies (open = 100, laparoscopic = 95) and 128 partial nephrectomies (open = 69, laparoscopic = 59) were performed. A total of 24 nephroureterectomies were performed for upper tract TCC (open = 8, laparoscopic = 16) the majority of laparoscopic nephroureterectomies were performed in the last 3 years (87%). There is a steady decrease in the proportion of open surgeries performed from 97% of cases in 2009 to just 24% in 2018, with a corresponding increase in MIS.

No changes in tumour patterns were seen during the same time period.

Conclusions: MIS now dominates the operative management of kidney cancer, with the use of open surgery becoming reserved to complex cases. This may present significant challenges for the necessary training for open surgery.

Gallium⁶⁸ PSMA PET imaging impacts decision making for the management of patients with prostate cancer: results from a prospective study

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Introduction: Ga⁶⁸ PSMA PET has a higher sensitivity for detecting metastatic disease than conventional imaging (1). It has particular benefit in the setting of biochemical recurrence when considering

salvage therapy and is now recommended (2). Ga⁶⁸ PSMA PET was introduced at our institution in February 2019. We aimed to assess how it influenced decision-making.

Methods: A prospective study of Ga⁶⁸ PSMA PET usage was commenced in February 2019. The age, PSA, International Society of Urological Pathology (ISUP) prognostic group, primary treatment and the proposed likely management based on conventional imaging were documented before discussion at a multi-disciplinary team meeting. The primary outcome was the impact on management.

Results: Twenty-eight Ga⁶⁸ PSMA PET scans were carried out over a two-month period. Mean age was 65.3 years, median PSA was 4.5 (range 0.2–279). ISUP Grades 2, 3, 4 and 5 were 7%, 28%, 32% and 25% respectively. Robotic prostatectomy was the most common primary therapy (35%), followed by external beam radiotherapy (25%) and both radical prostatectomy and radiotherapy (17.5%). Eight patients (28.5%) avoided having salvage radiation to the prostate bed based on Ga⁶⁸ PSMA PET imaging. Three patients were deemed eligible for stereotactic radiation for oligometastatic disease enabling them to potentially delay hormonal therapy. Two patients with high risk primary disease were offered radical local treatment based on superior staging information, whilst another was not offered surgery based on a rib metastasis.

Conclusion: More accurate imaging with Ga⁶⁸ PSMA PET has enabled our institution to make more informed treatment decisions for patients with prostate cancer.

References

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