

A prospective study to determine mid-term outcome of patients with renal carcinoma treated in a single urology unit of Sri Lanka

¹R V Paranamanna, ¹A L A M C Ambegoda, ¹M G S R Kumara, ¹Balasingam Balagobi, ²Cherine Soosai, ³Dharmika Ranasinghe, ¹Anuruddha M Abeygunasekera

¹Urology unit, Colombo South Teaching Hospital

²Department of Pathology, Colombo South Teaching Hospital

³Department of Radiology, Colombo South Teaching Hospital

Introduction

Incidence of renal cell cancer is rising though survival data is not available for Sri Lanka.

Methods

All patients with renal tumours treated in the urology unit of Colombo South Teaching Hospital were prospectively followed up and data were recorded over a period of six years (01.01.2012 to 31.12.2017). Patient demographic data, staging, tumor histology was analyzed. Patients were followed up with 6 monthly ultrasound scan of abdomen, chest X ray and serum creatinine level. Survival data was analyzed using Kaplan Meier method.

Results

There were 252 patients with renal tumours treated during the study period. Mean age was 56 years. Male to female ratio was 3.7:1. There were 4 (1.6%) patients with Von Hippel Lindau disease. Two hundred and thirty four (93.2%) renal cancers out of which clear cell variety was the commonest (n=185, 73.4%) (Figure 1). Stage 1 disease was the most frequent (n=135, 53.78%) and 18 (7.2%) had metastases at the time of diagnosis (Figure 2). Majority had radical nephrectomy (n=166, 66.1%) whereas 57 (22.7%) underwent partial nephrectomy. Ten cases (4%) were managed non-surgically (Figure 3). During the mean follow up of 25.8 months (range 6 - 88), 5 (2%) died within 30 days of surgery and 27 (10.8%) died subsequently. Another 10 patients who developed metastases are alive at the end of the study period. Most metastases developed 6 months after the surgery. Nearly 87% of patients with renal cancer are alive at the end of a mean follow-up of 26 months.

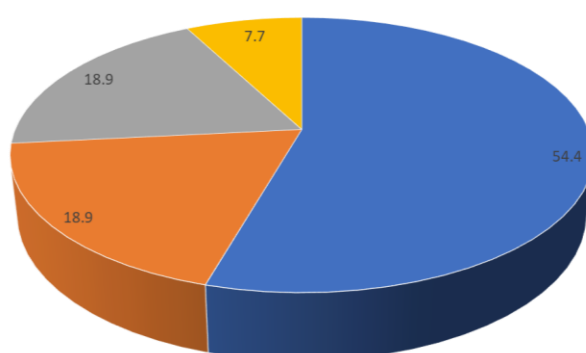
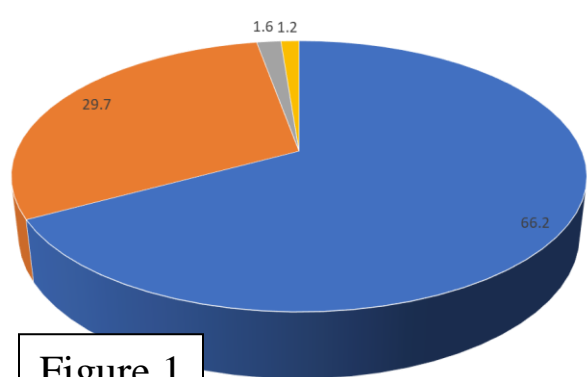


Figure 2

Figure 1

■ Radical Nephrectomy ■ Partial Nephrectomy ■ RFA ■ No surgery

■ Stage 1 ■ Stage 2 ■ Stage 3 ■ Stage 4

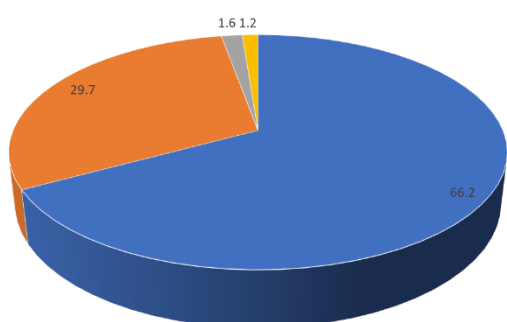


Figure 3

■ Radical Nephrectomy ■ Partial Nephrectomy ■ RFA ■ No surgery

Conclusions

Majority of renal cancers are diagnosed at an early stage now. Most metastases develop 6 months after surgery.