**CASE REPORTS**

**BILATERAL RADICAL NEPHRECTOMY & ADRENALECTOMY – A RARE CASE REPORT**

MD ABDUR RAKIB¹, HARUNUR RASHID², MD SHAHIDUL ISLAM³, S M SHAMEEM WAHEED⁴, MD ASHIF CHWDHURY⁵, MOHAMMAD SHAFIUL ALAM⁶

**Introduction**
Paired organs have one feature in common; they can be affected by exactly the same carcinogenic influences, both genetic and environmental[1]. Understanding the risk of bilateral kidney cancer is particularly relevant because the function of this organ is vital and removal of the remaining kidney as a result of bilateral cancer may require life-long hemodialysis[2,3]. Hence if patients at high risk of developing bilateral metachronous kidney cancer could be identified early, a longer and more intensive follow-up schedule would be undertaken, with the advantage of earlier cancer identification[4]. Bilateral renal tumours are although not common but not rare. The management in such a patient is highly critical and needs a multidisciplinary tertiary hospital where all the facilities are available. In this case report such a critical patient has been described.

**Case Report**
Mr. G.R 60 yrs presented with unexplained weakness & fatigue, wt loss & loss of appetite of 03 months duration. There is no haematuria, cough, bone pain and jaundice. He had history of radical nephrectomy (Rt) in 2000. He is smoker & Hypertensive for 15 yrs but non diabetic. Clinical examination revealed average built (BMI 20), anaemic (Hb- 8gm/dl), palpable left renal mass. Hematological and biochemical parameters are normal except raised S. Creatinine (1.9 mg/dl). CXR is unremarkable. USG of whole abdomen shows multiple SOL in the left Kidney. Bone scan was negative for metastasis. MR-Urogram revealed multifocal SOL in the left kidney suggestive of RCC. FNAC confirmed as renal cell carcinoma.

The patient was prepared and a multidisciplinary team was formed comprised of urologist, nephrologist, oncologist, endocrinologist, intensivist and anesthesiologist and counselled with family members and permanent jugular catheter was placed on the day before surgery. Laparotomy was performed on 5th April 2015 through 11th Rib bed. Lt kidney was explored, assessed and mobilized and radical nephrectomy with adrenalectomy was performed and patient shifted to critical care centre. The patient was extubated on 2nd POD and dialysis started on 3rd POD. His post op period was hectic with episodes of hypo & hypertension, severe acidosis, dyselectrolytemia, ICU psychosis and sepsis. All the events were managed successfully. The patient recovered and discharged after three weeks and advised for regular follow up and dialysis. The patient is still alive.

---

1. Urology Centre, Combined Military Hospital Dhaka, Dhaka Cantonment
2. Ex - Consultant Surgeon General, Bangladesh Armed Forces.
3. Head of the department of Urology Centre, Combined Military Hospital Dhaka
   Dhaka Cantonment
4. Col (Professor), Urology Centre, Combined Military Hospital Dhaka
   Dhaka Cantonment
5. Urology Centre, Combined Military Hospital Dhaka, Dhaka Cantonment
6. Urology Centre, Combined Military Hospital Dhaka, Dhaka Cantonment

**Correspondence:** Col (Professor) Md Abdur Rakib,
Urology Centre, Combined Military Hospital Dhaka, Dhaka Cantonment, Mob-01769014706

**Received:** 05 February 2019  **Accepted:** 10 May 2019
Discussion
Bilateral organs have one common feature. It can be affected by the same carcinogenic influences both genetic & environmental. So understanding the risk of bilateral RCC is relevant because of vital organ[4,5]. The removal of bilateral kidney requires life long hemodialysis. The behavior of RCC is unpredictable, metastasis may be found synchronously with the primary tumor or in various organs many years after treating the primary RCC. Although RCC can metastasize to almost every organ, the most common metastatic sites are the lungs, abdomen, bones and brain. Contralateral adrenal metastasis is rare (1.1-2.5%). Ipsilateral adrenal metastasis is also rare (3.4%). Bilateral adrenal metastasis is also rare (0.2-0.05%)[5,6]. In addition to being able to metastasize to numerous different organs, RCC can recur or metastasize many years after resection of the primary tumor[7]. So bilateral radical nephrectomy and adrenalectomy increases morbidity & even mortality due to acute adrenal insufficiency[8]. The patients at high risk of developing bilateral metachronous kidney cancer should be identified as early as possible and treatment should be individualized. A more intensive follow up schedule should be undertaken.

Conclusion
Bilateral radical nephrectomy and adrenalectomy is a highly critical case which increases the morbidity and mortality of the patients. A highly specialized multidisciplinary well equipped team is necessary to manage this type of patients. The patient counseling is an integral part of management for good outcome.

References: