

Case Report

Transitional cell carcinoma of the upper urinary tract: a puzzle

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ABSTRACT

Transitional cell carcinoma (TCC) of the upper urinary tract has a puzzling presentation. This is a case report of a 44 year old male with history for smoking 20 pack years presenting with cough, haemoptysis and microscopic haematuria. His sputum was positive for acid fast bacilli. He was treated as pulmonary tuberculosis (PTB) but had gross haematuria a month after initiation of anti-tubercular drugs (ATD). He was investigated with computed tomography (CT) imaging and was found to have thickened renal pelvis and ureter. It was initially thought as a case of genito-urinary tuberculosis (GUTB). Expectant management for gross haematuria failed. The patient was stabilised and taken up for open nephroureterectomy under general anaesthesia (GA). Histopathological report suggested it to be high grade TCC of the left renal pelvis extending to upper ureter. He did well with completion of ATD. He was not started on adjuvant chemotherapy for fear of exacerbation of PTB. He is under regular and uneventful follow up in the outpatient department (OPD).

Keywords: Kidney, Renal pelvis, Haematuria, Transitional cell carcinoma

INTRODUCTION

Upper urinary tract carcinoma is a relatively rare disease, comprising 5% to 10% of all urothelial tumours with highest incidence in Balkan countries.¹ Peak incidence is in individuals in their 70s and 80s.² They are usually associated with poor prognosis with 19% having metastatic disease on initial presentation. Male to female ratio is 4:1. Commonest presentation is haematuria either gross or microscopic and flank pain. Many endoscopic managements are illustrated in text but the most common mode of treatment is nephroureterectomy either open or laparoscopic.

CASE REPORT

Case history

A 44 year old male patient presented to the outpatient department (OPD) with complaints of cough and

haemoptysis. He had undergone urine analysis as advised by his general practitioner, which revealed 7-8 red blood cells per high power field (RBCs/HPF). He has history of smoking 20 packs years of cigarette. He has no history of diabetes, hypertension or any previous surgery. His family history is unremarkable and he is a teacher by profession.

He was advised urine for culture sensitivity and ultrasonography of abdomen. A chest consultation was asked for cough and haemoptysis. His sputum for acid fast bacilli (AFB) was positive. He was started on anti-tubercular drugs (ATD) category I.

His condition deteriorated and he had two episodes of gross haematuria. He presented to the emergency. He was admitted and stabilized. His condition was ultrasonography showed hydronephrosis of the left kidney with echogenic debris and normal ureter and bladder. The urine was sent for cartridge based nucleic acid

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