daughter of two educated parents who were well informed. The second patient with less symptoms was the daughter of the necessity for early and vigorous treatment of even minor infections and prevention of dehydration. They also had a significant financial and geographical advantage over the first family when it came to receiving medical care. The parents of the first patient were physically less able, from a much poorer socioeconomic background and had very little insight with regard to the disease. We therefore stress the importance of socioeconomic factors and proper patient education in the management of patients with sickle cell disease.

Metanephric adenoma mimicking renal cell carcinoma

Introduction

Metanephric adenoma is a rare benign tumour of the kidney, recently recognised as a unique pathological entity which is radiologically indistinguishable from malignant renal tumours. Inability to achieve a precise preoperative diagnosis could lead to a radical surgical approach for this benign tumour with an excellent prognosis. Only a few cases are reported worldwide, and we document the first case in Sri Lanka.

Case report

A 32-year-old man presented with episodic vague left loin pain without urinary symptoms. Ultrasonography and CT scan of the abdomen demonstrated a well circumscribed hyper-echoic solid mass in the left kidney without perinephric or intra-calyceal extension (Figure 1). The radiological diagnosis was renal carcinoma and the patient had a radical nephrectomy.

The resected specimen showed well encapsulated tumour measuring 5 x 5 x 3 cm with cystic, necrotic and haemorrhagic areas. Microscopy revealed a well circumscribed tumour composed of solid sheets, glandular forms and papillary forms consisting of small, uniform, ovoid-to-round cells, with scanty cytoplasm and hyperchromatic nuclei. No mitoses were noted. Large areas of necrosis, haemorrhages and psammoma bodies were present (Figure 2). Features were compatible with a metanephric adenoma. It is a rare benign renal tumour which was initially thought to be a tumour of epithelial origin but is now considered as an embryological and nephroblastic renal tumour [1, 2].

Although benign, metanephric adenomas share some features with Wilms’ tumour. Studies on immunohistochemical staining patterns of both tumours reflected developing nephrons. Metanephric adenoma differs from renal cell carcinoma as gains in chromosomes 7 and 17 and loss of the Y chromosome found in renal cell carcinoma seem to be absent in metanephric adenoma [4]. Most are detected incidentally; other clinical presentations include flank pain with or without fever, haematuria, palpable mass and polychythaemia in adults [3, 5].

Because of its benign nature it is important to differentiate metanephric adenoma from Wilms’ tumour, low grade renal cell carcinoma, and other benign tumours.

References


To the Editors:

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with malignant potential. Ultrasonically its well circumscribed nature with hyper-echogenesity and increased attenuation in relation to the adjacent renal parenchyma should raise suspicion. As surgical treatment of renal tumours is largely determined on radiological diagnosis and core needle biopsy is only rarely done, awareness of this tumour enables one to perform an image-guided core needle biopsy to avoid unnecessary radical nephrectomy.

References


From Content by Robert Greene (1560 – 1592). First published in 1600 in the collection titled England’s Helicon.