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Simultaneous peritoneal and retroperitoneal splenosis mimics metastatic right adrenal mass

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ABSTRACT

INTRODUCTION: Right retroperitoneal splenosis is rare with few reported cases. We report, here, the case of simultaneous peritoneal and retroperitoneal splenosis mimics metastatic right adrenal mass.

PRESENTATION OF CASE: A 28-year-old man who had previously undergone post traumatic splenectomy at childhood and subsequently presented with an large incidental non-functioning right adrenal mass with presence of extra-hepatic peritoneal focal lesion diagnosed as metastasis by magnetic resonance imaging (MRI). Adrenalectomy with metatstectomy was performed, and both masses were identified to be splenosis.

DISCUSSION: Adrenal incidentalomas (AIs) is defined as asymptomatic masses >1 cm. on cross-sectional imaging studies. AIs have significant malignant potential for masses > 6cm. Splenosis are found most frequently in the left retroperitoneum in cases involving retroperitoneal splenosis. However, right retroperitoneal splenosis have been reported. Traditional imaging techniques cannot differentiate splenosis from malignancy.

CONCLUSION: Large right adrenal incidentalomas present with other abdominal, peritoneal masses could be splenosis in patient following post-traumatic splenectomy.

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1. Introduction

Incidental discovered adrenal mass (adrenal incidentalomas "AIs") has a widespread diversity of differential diagnosis [1,2]. Beside these, some rare causes still involved. One of rare causes of AIs is splenosis, defined as heterotopic autotransplantation and implantation of viable splenic tissue after either splenic trauma or surgery most commonly located within the peritoneal cavity [3].

In spite of the fact that splenosis is a benign mass can be diagnosed through Tc-99m labeled heat-damaged autologous red blood cell single-photon emission computed tomography (SPECT-CT) imaging, avoiding surgical intervention [4]. A review of >1300 patients with Adrenal incidentalomas revealed that incidence of malignant potential significantly increased for masses >6 cm in diameter and should be considered malignant until proven otherwise, almost always requiring definitive resection [5]. In all previous reported cases of adrenal splenosis the mass size ranged from 3.4 to 6 cm [2,3,6–8] which can have lower possibility of being malignant.

2. Presentation of case

A 28-year-old male was referred to our outpatient clinic complaining of non-specific abdominal pain. He underwent splenectomy for ruptured spleen since 2000. All laboratory parameters were normal including the hormonal work up for the adrenal hyperfunction.

MRI of the abdomen revealed a 7.8 × 9.4 cm right supra-renal (non-adenomatous) mass with intermediate SI at T₂ WI and no drop in SI at out phase chemical shift in close relation to liver and upper pole of the kidney. In addition, there was extra hepatic peritoneal focal lesion related to lateral aspect of segment VI of the liver measured 2.5 × 2 × 1 cm (mostly metastatic) (Fig. 1). Chest CT scan was free and bone scan confirmed no evidence of bony metastatic deposits.

During adrenalectomy, extra hepatic peritoneal focal lesion identified at the surface of right lobe of the liver and was resected (Fig. 2). Histopathological examination showed normal splenic red and white pulp components including lymphoid follicles with germinal center formation with normal supra renal tissue and no malignancy and accessory peritoneal mass showed same findings consistent with splenosis (Fig. 3). The patient had smooth postoperative course.

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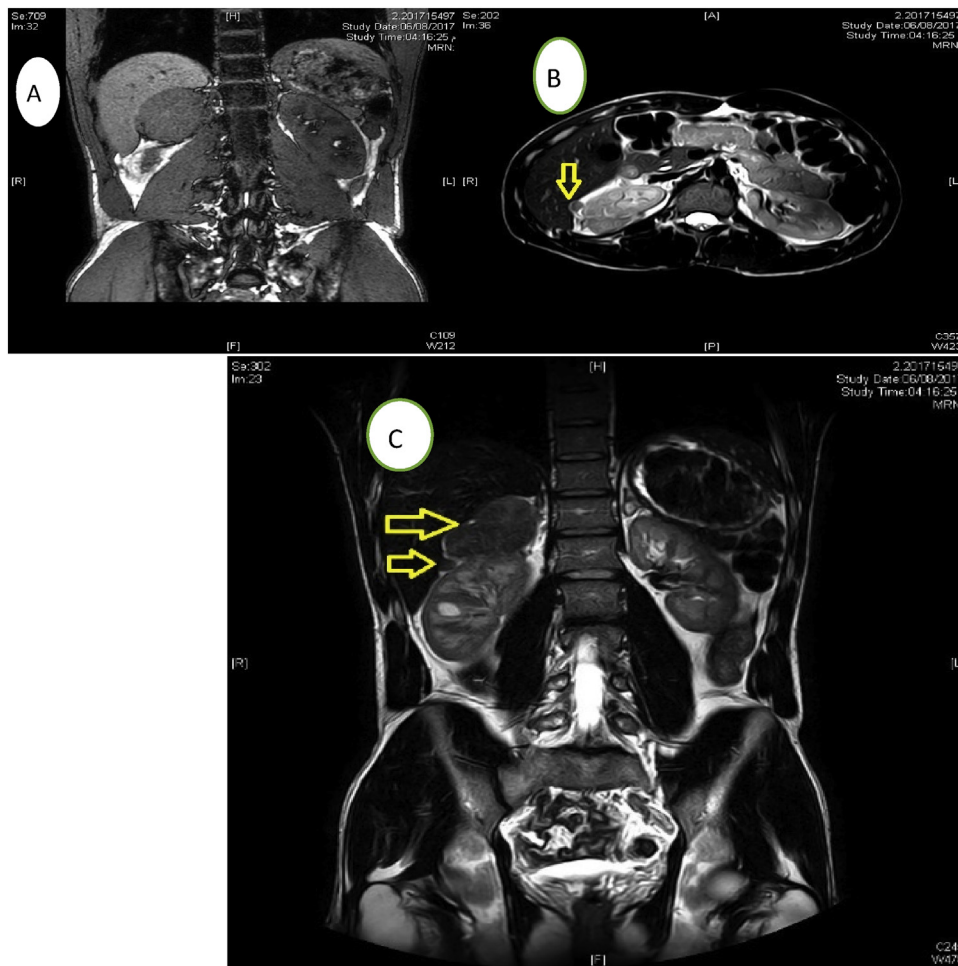


Fig. 1. (A) MRI reformatting image showing right supra renal mass measuring about 9.4×7.8 cm. (B) Extra hepatic peritoneal focal lesion related to lateral aspect of segment VI of the liver measured $2.5 \times 2 \times 1$ cm. (C) Reformatting image of MRI showing both lesions.

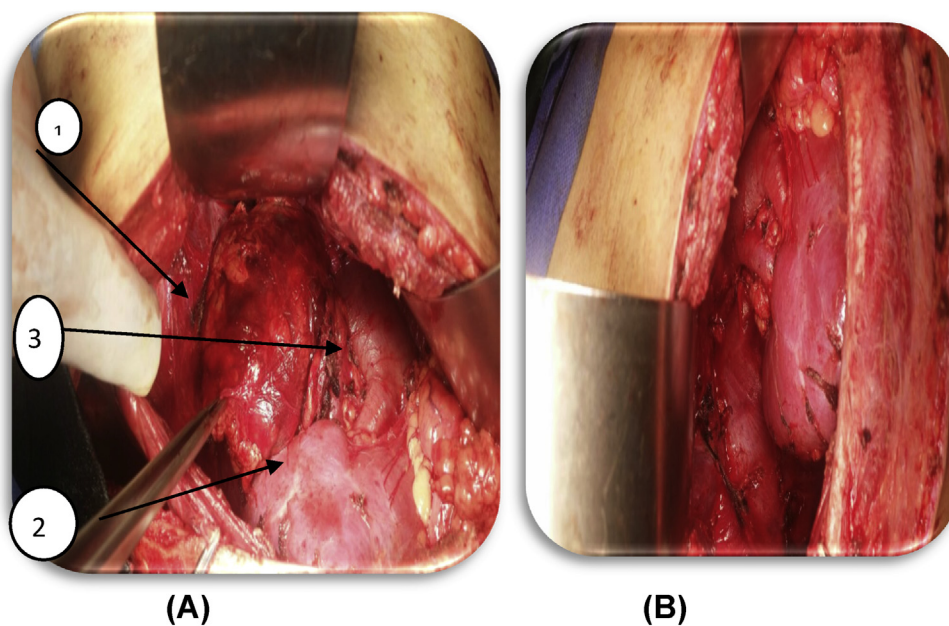


Fig. 2. (A) Intraoperative findings: (1) Right supra renal mass (2) Right renal unit (3) Inferior Vena Cava (IVC). (B) Right supra renal bed after removal of the mass.

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