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Wandering spleen with horseshoe kidney a rare occurrence

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ABSTRACT

INTRODUCTION: Wandering spleen is a rare clinical entity in itself, with only 2 cases reported thus far when correlated with congenital under-development of the kidney, it usually happens due to under development of its surrounding ligaments. Herein we present a case of wandering spleen with underlying congenital deformity of horseshoe kidney which requires splenectomy due to late presentation.

PRESENTATION OF CASE: A 21 year old lady presented with worsening of chronic abdominal pain for 3 years, associated with nausea and vomiting. Physical examination showed a vague mass located at epigastric region. Consecutively, computed tomography images showed a well-defined, oval, hypoechoic spleen extending from center of abdomen up to epigastric region measuring 15.5×13 cm with twisted pedicle. Finally the patient underwent surgical treatment. The intraoperative findings were consistent with computed tomography images. The patient made a full recovery and was discharged well.

DISCUSSION: Wandering Spleen was first described by Van Horne during autopsy back in 1667. Its location is maintained by peritoneal attachments such as lienorenal, splenocolic, splenophrenic, gastrosplenic and phrenicocolic ligaments. Among which, the gastrosplenic ligament and lienorenal ligaments are of greatest significance. Patient with a wandering spleen may present asymptomatic, with a movable mass in the abdomen, or with chronic or intermittent abdominal pain because of partial torsion and spontaneous de-torsion of the spleen as in our case. When feasible especially in young patients, splenopexy should always be the first consideration but however if gross infarct has occurred then splenectomy is inevitable to save the patient.

CONCLUSION: Wandering spleen is a unique surgical entity moreover when appeared in congruence with horseshoe kidney. Its diagnosis should be made in prompt to prevent splenic infarction and to try to salvage with splenopexy especially in younger population. However in patient where splenic torsion with infarction has occurred, splenectomy would be the treatment of choice.

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1. Introduction

Wandering spleen with horseshoe kidney is a rare diagnosed clinical entity, with only 2 reported case thus far [1,21]. It is characterized by the absence or under-development of one or all the ligaments supporting the spleen in its normal position in the left upper quadrant of the abdomen, resulting in hypermobility. It commonly affects children with a predilection for female in the adult population [2]. Clinical presentation is variable, it usually takes the course of an acute torsion with subsequent infarct, which is potentially fatal if not treated promptly. Herein we report a rare case of wandering spleen with horseshoe kidney presenting with acute abdomen. This case report has been reported in line with the SCARE criteria [23,24].

2. Case report

We report the case of a 21 year old lady who presented to emergency department with abdominal pain, she complained of intermittent abdominal pain and early satiety, which persisted for the past 3 years worsening over the past week. She had been visiting the emergency department of various hospitals, but was always treated as dyspepsia and discharged on visit. There was no family history of thalassemia or hematological malignancy, with no history of trauma. She was otherwise in good health.On physical examination, abdomen was soft but there was a deep seated mass detected and located at the epigastric region with a size of 10×8 cm, showing firm consistency and non-mobile feature. Percussion over Traube's space was resonance.

Results of laboratory date were as follows: neutorphils 18.1 $10^9/L$, white cell count 22.1 $10^9/L$, creatinine 52 μ mol/L, sodium 139 mmol/L, potassium 4.3 mmol/L, urea 3.7 mmol/L, INR 1.6, hemoglobin 9.5 g/dL and platelets 333 $10^9/L$.

Radiological investigation started with an ultrasound, which revealed a well-defined, oval, hypoechoic solid mass extend-

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Fig. 1. Spleen with 'whirl' appearance of hilum.

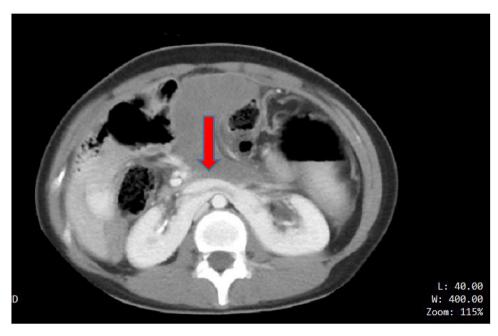


Fig. 2. Horseshoe kidney.

ing from center of abdomen up to epigastric region measuring 15.5×13 cm. An abdominal CT was later obtained to further define the extent and nature of the mass, an empty splenic bed was noted with the mass being the spleen located at the center of the abdomen [Figs. 1 and 3]. The splenic artery and vein are twisted at the distal segments, giving the 'whirl' appearance. Horseshoe kidney with mild left hydronephrosis with no identifiable course of obstruction was noted [Fig. 2]. On the basis of the radiological findings and the intolerable pain, we decided to proceed with surgical intervention. Surgical access was obtained using a midline incision. A bluish discolored and congested spleen was identified with an absent lienorenal ligament. It was freely mobile with evidence of twist at its pedicle [Fig. 4], therefore surgical resection was per-

formed. Histopathology shows, extensive hemorrhage of spleen parenchyma associated with congestion consistent with torsion of wandering spleen. Post-operative course was smooth and uneventful, patient discharged home after 3 days and made a full recovery thereafter.

*Below pictures are attached to figure and picture document

3. Discussion

This is a 3rd case reported on wandering spleen associated with a horseshoe kidney. Spleen is the largest organ in our reticulo-endothelial system [3]. Its location is maintained by peritoneal attachments such as lienorenal, splenocolic, splenophrenic,

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