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ABOUT COVER

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The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

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CASE REPORT

Wandering spleen torsion with portal vein thrombosis: A case report

Xin-Yan Zhu, Dong-Xu Ji, Wen-Zai Shi, Yu-Wei Fu, Da-Kun Zhang

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Abstract

BACKGROUND

Wandering spleen is rare clinically. It is characterized by displacement of the spleen in the abdominal and pelvic cavities and can have congenital or acquired causes. Wandering spleen involves serious complications, such as spleen torsion. The clinical symptoms range from asymptomatic abdominal mass to acute abdominal pain. Surgery is required after diagnosis. Cases of wandering spleen torsion with portal vein thrombosis (PVT) are rare. There is no report on how to eliminate PVT in such cases.

CASE SUMMARY

Ultrasound and computed tomography revealed a diagnosis of wandering spleen torsion with PVT in a 31-year-old woman with a history of childbirth 16 mo previously who received emergency treatment for upper abdominal pain. She recovered well after splenectomy and portal vein thrombectomy combined with continuous anticoagulation, and the PVT disappeared.

CONCLUSION

Rare and nonspecific conditions, such as wandering splenic torsion with PVT, must be diagnosed and treated early. Patients with complete splenic infarction require splenectomy. Anticoagulation therapy and individualized management for PVT is feasible.

Key Words: Portal vein thrombosis; Splenic torsion; Wandering spleen; Case report



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Core Tip: Cases of wandering spleen torsion with portal vein thrombosis (PVT) are rare. There is no report on how to eliminate PVT in such cases. Here, we report wandering spleen torsion with PVT in a 31-year-old woman with a history of childbirth 16 mo previously who recovered well after splenectomy and portal vein thrombectomy combined with continuous anticoagulation. The PVT disappeared. Wandering splenic torsion with PVT must be diagnosed and treated early. Patients with complete splenic infarction require splenectomy. Anticoagulation therapy and individualized management for PVT is feasible.

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INTRODUCTION

Wandering spleen is caused by a congenital or acquired defect in the attachment of the spleen. Children aged 3 mo to 10 years and women aged 20-40 years are more likely to experience wandering spleen[1]. The overall incidence among the population is < 0.2%[2]. The clinical manifestations include an active abdominal mass, chronic pain, and acute abdominal pain, or the individual may have no symptoms. A serious complication of a wandering spleen is splenic torsion. Patients with complete splenic torsion require emergency splenectomy, which includes both traditional surgical resection and laparoscopic splenectomy. Wandering spleen torsion with portal vein thrombosis (PVT) is a rarer condition. Only two cases have been reported in Turkey, but there was no detail about the treatment and prognosis of PVT. Here, we report the first case where PVT completely disappeared with low-molecular-weight heparin treatment after portal vein (PV) incision and thrombectomy in a patient with wandering spleen torsion with PVT.

CASE PRESENTATION

Chief complaints

A 31-year-old woman presented to the emergency department with upper left epigastric pain that had lasted 24 h.

History of present illness

Symptoms started 24 h before presentation with upper left epigastric pain associated with several episodes of vomiting. The onset of symptoms was gradual.

History of past illness

The patient had a history of childbirth 16 mo previously.

Personal and family history

The personal and family history revealed no information relevant to the current case.

Physical examination

The patient's temperature was 36.8 °C, heart rate was 95 beats/min, respiratory rate was 22 breaths/min, and blood pressure was 117/72 mmHg. The physical examination showed a large, firm, and mobile mass in the left lower abdomen, without any other pathological signs.

Laboratory examinations

The laboratory tests showed that leukocyte count was $16 \times 10^{9}/L$ (normal range: $3.5 \times 10^{9}-9.5 \times 10^{9}/L$), suggesting leukocytosis; neutrophil count was $11.91 \times 10^{\circ}/L$ (normal range: $1.8 \times 10^{\circ}-6.3 \times 10^{\circ}/L$), suggesting neutrophilia; platelet count was $185 \times 10^{\circ}/L$ (normal range: $125 \times 10^{\circ}-350 \times 10^{\circ}/L$); prothrombin time was 14.4 s (normal range: 9.4 s-12.5 s); activated partial thromboplastin time was 30.8 s (normal range: 25.4 s-38.4 s); fibrin degradation products was 12.31 µg/ mL (normal range: < 5 µg/mL); D-dimer was 2017 ng/mL (normal range: < 250 ng/mL); albumin was 36.4 g/L (normal range: 65 g/L-85 g/L); alanine aminotransferase was 12 U/L (normal range: 7 U/L-40 U/L); glutamic oxaloacetic transaminase was 38 U/L (normal range: 13 U/L-35 U/L); alkaline phosphatase was 79 U/L (normal range: 35 U/L-100 U/L); glutamyltransferase was 9 U/L(normal range: 7 U/L-45 U/L); total bilirubin was 15.1 µmol/L (normal range: 3.4 µmol/ L-23.3 µmol/L); and direct bilirubin was 5.7 µmol/L (normal range: 0 µmol/L-6.8 µmol/L).



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Imaging examinations

Abdominal ultrasound revealed thrombosis, a spleen located in the left lower abdomen, and a dilated splenic vein (Figure 1). Abdominal and pelvic enhanced computed tomography (CT) showed that the spleen measured 16 cm along its long axis, was located in the left lower abdomen and was not enhanced after contrast injection. The splenic pedicle of the artery and vein showed a vortex sign, and the main and right PV branches were filled with defects. This indicated wandering spleen torsion with PVT (Figure 2).

FINAL DIAGNOSIS

Intraoperative examination revealed a large free spleen with regions of infarction and necrosis in the left lower abdomen. There were no splenogastric ligaments, splenorenal ligaments, diaphragmatic splenic ligaments, or splenocolic ligaments in the spleen. The spleen was purple and had three spiral loops around its pedicle (Figure 3). The main and right branches of the portal vein were filled with thrombosis. This indicated wandering spleen torsion with PVT.

TREATMENT

The patient underwent splenectomy and PV thrombectomy. The procedure of portal vein thrombectomy was as follows: The tube wall was cut longitudinally near the main portal vein and the right portal vein branch, with a length of approximately 1 cm. At the same time, in cooperation with the Department of Vascular Intervention, a thrombectomy catheter and balloon were placed through the portal vein incision. The anticoagulation strategy was to continue oral aspirin for 6 mo after discharge with low-molecular-weight heparin during hospitalization. The anti-infective drug ceftazidime was administered.

OUTCOME AND FOLLOW-UP

The patient was hospitalized for 16 d. The PVT disappeared completely after 3 mo. The patient was healthy and asymptomatic at the 4-year follow-up after surgery.

DISCUSSION

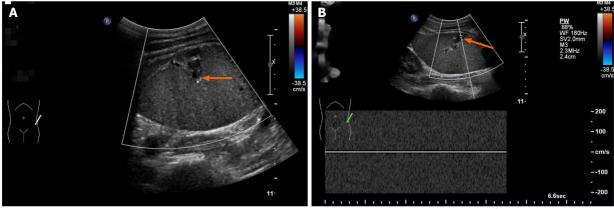
Congenital causes, such as loss or relaxation of ligaments, and acquired causes, such as stomach bloating, splenomegaly, excessive abdominal relaxation, abdominal trauma, and pregnancy, can lead to wandering spleen. All these causes result in the loss or abnormal development of spleen fixation, and the spleen migrates into the abdominal and pelvic cavities[3]. In the present case, there was an acquired cause of postpartum vascular pedicle elongation and abdominal wall relaxation, as well as a congenital cause of missing ligaments.

In a population study based on 23796 consecutive autopsies, Ogren et al[4] found that the overall risk of PVT in the general population is approximately 1%. Severe PVT can easily result in mesenteric ischemia and even intestinal necrosis [5]. PVT can have acute and chronic manifestations and causes of cirrhosis and noncirrhosis. The liver function in the present case was basically normal, with no history of liver cirrhosis. PVT was formed in the short term, indicating that it was caused by acute noncirrhosis. The pathophysiology of PVT is related to the disorder of Virchow's triad, where venous stasis, endothelial damage, and increased hypercoagulability make the patient prone to thrombosis[6]. Cases involving wandering spleen torsion with thrombosis in the main PV and its branches are rare. However, the cause of PVT is unclear. Yilmaz et al[7] reported a patient with thrombocytosis, accompanied by wandering spleen and spleen torsion, and the formation of PVT, which they believed to be related to thrombocytosis. Our patient had leukocytosis, neutrophilia, and abnormal coagulation, without thrombocytosis. We believe that splenic venous congestion and hypercoagulability in patients after splenic torsion may be the mechanisms underlying PVT. The patient's hypercoagulable state is associated with neutrophilia. Neutrophil extracellular traps are associated with increased venous thromboembolism risk and/or hypercoagulability[8], which supports our view.

Ultrasonography shows an enlarged spleen with an abnormal location and decreased blood flow on doppler ultrasound[9]. The typical CT imaging manifestations are empty splenic region, unknown mass, ectopic splenic enlargement, and spiral changes of splenic pedicle vessels[10]. Therefore, ultrasound and CT imaging can be used to diagnose and follow up PVT.

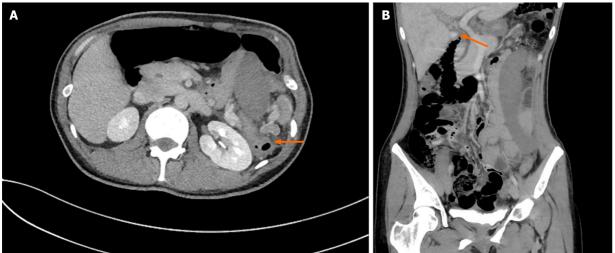
If splenic infarction and necrosis have developed, splenectomy is critical. Untwisting and splenic fixation are the recommended treatments only if splenic infarction and necrosis have not developed. In recent years, the use of more conservative and minimally invasive methods, such as laparoscopic surgery, to place a mesh or construct retroperitoneal bags has increased[11]. Thrombolysis, thrombectomy, or transjugular intrahepatic portosystemic shunt are methods of PVT treatment. However, there is no consensus on the intervention strategy. Practical guidelines support anticoagulation as the first-line treatment for PVT. After early anticoagulation treatment, the recanalization rate of thrombi is 38%. The treatment of PVT requires multidisciplinary management for different patients. A detailed introduction of this

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Figure 1 Ultrasound of the abdomen with arrows showing splenic vein thrombosis and hypovascularized spleen. A: Splenic vein widened without blood flow (orange arrow); B: No venous spectrum can be extracted from splenic vein (orange arrow).



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Figure 2 Computed tomography with arrows showing splenic pedicle vascular torsion and portal vein thrombosis. A: Axial reconstruction planes (orange arrow); B: Coronal reconstruction planes (orange arrow).



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Figure 3 Splenic infarction caused by torsion of splenic pedicle vessels.

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management and prognosis of wandering spleen torsion with PVT has not been reported in the literature. For patients who undergo splenectomy for complete splenic infarction and develop PVT, anticoagulant therapy is necessary, but the need for surgery remains to be discussed.

CONCLUSION

Wandering splenic torsion with PVT is a rare nonspecific condition. Splenectomy should be performed in patients with complete splenic infarction. Anticoagulation therapy and individualized management after multidisciplinary consultation according to the patient's condition are required in the treatment of PVT.

FOOTNOTES

Author contributions: Zhu XY performed the data analysis and wrote the manuscript; Ji DX, Shi WZ, Fu YW contributed significantly to the analysis and manuscript preparation; Zhang DK helped perform the analysis with discussions and contributed to the study conception; All authors have read and approved the final version to be published.

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