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A Patient with Abdominal Pain Following Routine Colonoscopy

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Abstract

Herein we report a case of splenic rupture following routine colonoscopy. Splenic injury after colonoscopy is extremely rare; however internists/gastroenterologists should be aware of this possible potentially fatal complication and its delayed and unspecific onset.

Case Presentation

A 44 years old female was admitted to the hospital with Crohn's disease involving the upper GI tract as well as the terminal ileum. Diagnosis had been attained 4 months before histologically by gastroduodenoscopy and MRI enterography and treatment with corticosteroids had been initiated. The patient was readmitted to complete staging including ileocolonoscopy which she previously had refused. Ileocolonoscopy was performed under conscious sedation using propofol and revealed active Crohn's disease of the distal ileum on a length of 10 cm. The entire colon showed normal appearance. These findings were confirmed by histology.

The endoscopic procedure was uneventful. Progression of the scope up to the terminal ileum was achieved smoothly with no significant looping with a total procedure time of 12 min and withdrawal time of 8 min. The patient was asymptomatic and mobile following the procedure.

However, 10 hr later she reported slight dizziness and unspecific abdominal discomfort. During the following night she complained about abdominal pain. Lab tests showed a drop of her hemoglobin to 7.4 g/dl. Ultrasound examination was performed demonstrating pathological findings in the left upper abdomen (Figure 1 and 2).

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Copyright © 2018 Ahmed Abdel Samie. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. Abdominal ultrasound revealed an enlarged spleen with hypoechoic areas at the upper splenic pole consistent with intrasplenic bleeding (Figure 1). In addition, free fluid was detected in the perisplenic abdominal cavity (Figure 2).

Diagnostic aspiration of this fluid confirmed Intra-abdominal bleeding due to splenic injury. The patient was immediately transferred to the operating room, received transfusion of two packed red blood cells, and explorative laparotomy and splenectomy have been performed.

Intraoperatively pronounced adhesions of the greater omentum (mainly in the left lower abdomen) have been documented.

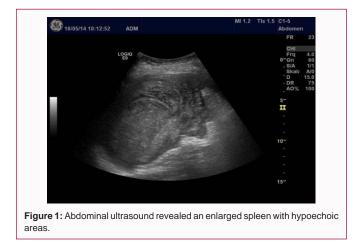
The spleen was partially avulsed with sub capsular hematoma and secondary rupture. The postoperative course was uneventful and the patient was discharged after five days having received triple vaccination against postsplenectomy infections according to the current guidelines. Treatment of Crohn's disease was resumed.

Discussion

Splenic injury due to colonoscopy is a rare complication and most patients have delayed symptoms. Less than 80 cases have been reported so far.

In systematic reviews [1,2] two hypothetic mechanism of trauma have been suggested. Direct trauma by the endoscope being positioned in the left flexure, yet this mechanism of injury appears to be less frequent than excessive traction on the splenocolic ligament when advancing the endoscope into the transverse colon leading to avulsion of the splenic capsule [1].

In most cases so far, adhesions by previous surgery or inflammatory processes have been reported. Symptoms usually start 24 hr after colonoscopy when significant amount of blood accumulates in the sub capsular space [3], but can be delayed for several days. Most patients present



with hemorrhagic shock at diagnosis.

FAST (Focus Assessment with Sonography for Trauma) or contrast enhanced CT scan is the diagnostic tools of choice [3]. Although endovascular treatment of splenic bleeding has been reported, a positive FAST in the presence of hemodynamic instability should lead to immediate explorative laparotomy.

Splenic injury after colonoscopy is extremely rare; however endoscopists should be aware of this possible potentially fatal complication and its delayed and unspecific onset.



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