Strangulated Spiegel’s hernia mimicking ischaemic colitis: endoscopic diagnosis of a rare surgical emergency

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DESCRIPTION
An 84-year-old man was referred to the emergency department with a 2-day history of colicky abdominal pain in the left lower quadrant, bloody diarrhoea and abdominal distension. Nausea and two episodes of watery vomiting were reported as well. Past medical history was remarkable for arterial hypertension, dyslipidaemia and ischaemic stroke, for which he was taking lisinopril, hydrochlorothiazide, simvastatin and acetylsalicylic acid. Surgical background included laparotomy for appendectomy and appendicular abscess drainage 8 years before.

Physical examination showed stable vital signs and a distended abdomen, with tenderness in the left lower abdominal quadrant, but no signs of peritoneal irritation. An obvious, but reducible, abdominal wall hernia was palpable in the same location. The remaining exam was unremarkable.

Laboratory results revealed mild anaemia (haemoglobin—12.7 g/dL) and leukocytosis (white cell count—11.7×10⁹/L), acute kidney injury (creatinine—2.1 mg/dL) and elevated C reactive protein (298 mg/L). Liver function tests, electrolyte panel, amylase and lactate dehydrogenase were within the normal range.

An abdominal CT scan showed thickening of the descending colon wall and a left-side Spiegel’s hernia with epiploic fat and a segment of the descending colon protruding through the hernia orifice (figure 1). However, as the patient had a reducible hernia at physical examination, he was admitted to the ward with the suspicion of ischaemic colitis and put under bowel rest, intravenous hydration and antibiotic therapy with metronidazole and ciprofloxacin.

A flexible sigmoidoscopy was performed 48 hours after admission for confirmation of the suspected diagnosis of ischaemic colitis. Endoscopic evaluation revealed an abrupt transition from normal colonic mucosa to a markedly oedematous, violaceous, fibrin-covered mucosa. A diagnosis of incarcerated Spigelian hernia was confirmed. The patient was submitted to an urgent laparotomy, in which an extensive segment of colonic necrosis (from splenic flexure to proximal sigmoid colon) without perforation was identified. After segmental colectomy of the unviable colon, an end colostomy was performed. The patient recovered uneventfully and was discharged 10 days after surgery.

Spiegel’s hernias are very uncommon and are estimated to account for 0.12% of all abdominal wall hernias. They occur through defects in the anterior abdominal wall adjacent to the semilunar line, frequently in the lower abdomen. In many cases, the diagnosis of Spigelian hernia is not straightforward because the external oblique muscle overlies the defect in the deeper fascia and also symptoms vary from abdominal pain, a lump in the anterior abdominal wall or signs of bowel obstruction.

Figure 1 Abdominal CT scan. Left-side Spiegel’s hernia with epiploic fat and a segment of the descending colon protruding through the hernia orifice (white arrow).

Figure 2 Flexible sigmoidoscopy. (A) Normal mucosa in the distal sigmoid colon. (B) Luminal constriction in the proximal sigmoid colon. (C) Congestive and fibrin-covered mucosa. (D) Oedematous, violaceous, fibrin-covered mucosa.

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Accepted 9 January 2018
hernias can occur in up to 24% of the cases, sonography and CT scan are the most commonly used adjuncts for the diagnosis. Endoscopic examinations are not generally used in this context but are a valuable and recommended tool to confirm the suspicion of colonic ischaemia. To the best of our knowledge, this is the first case report of a strangulated Spiegel’s hernia diagnosed by colonoscopy.

**Learning points**

► Although rare, Spiegel’s hernias should be considered in the differential diagnosis of abdominal pain, especially when a lump in the abdominal wall is palpated during the physical examination.
► Incarceration or strangulation of a Spiegel’s hernia can occur in almost a quarter of the patients, thus specific manifestations of these complications should be sought.
► Strangulated Spiegel’s hernia may present with abdominal pain and bloody diarrhoea mimicking ischaemic colitis, a distinction that may be particularly difficult when several vascular risk factors are present.

**References**