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Colonic tumour precipitating caecal volvulus within a diaphragmatic hernia

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Abstract

An 85-year-old woman presented with sudden onset of generalised abdominal pain and absolute constipation for 4 d. On examination she had a distended abdomen. Plain abdominal radiograph revealed a gas filled viscous within the left upper quadrant. Subsequent computed tomography suggested caecal volvulus herniated through a left diaphragmatic hernia. The patient underwent reduction of the internal hernia, right hemicolectomy and mesh repair of the diaphragmatic hernia. Postoperative recovery was uneventful. Histology revealed a Dukes' A colonic cancer within the caecum. Herniation of caecal volvulus through a diaphragmatic hernia is a very rare condition and may have been precipitated by the colonic tumour.

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Key words: Colonic cancer; Caecal volvulus; Bowel obstruction; Diaphragmatic hernia; Bowel ischaemia

Core tip: In patients presenting with acute bowel obstruction rare causes such as caecal volvulus must be included in the differential diagnosis. Herniation of caecal volvulus through a diaphragmatic hernia is a very rare condition and may have been precipitated by the colonic tumour.

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INTRODUCTION

Internal hernias through a diaphragmatic hernia are extremely rare, accounting for only < 1% of all hernias. Diaphragmatic herniae are generally thought to be congenital but other aetiological factors such as trauma have been suggested^[1]. The true incidence of diaphragmatic hernia is not known^[2]. Furthermore symptoms and/or herniation through such hernias are very rare^[1].

Intestinal obstruction due to internal herniation of the caecum in the form of caecal volvulus has not been reported in the literature previously. Caecal volvulus is defined as the axial rotation of the caecum accompanied by a twisting of the mesentery and of its vessels^[3]. The classical clinical presentation is that of symptoms of an intestinal obstruction^[4]. We report a case of caecal volvulus herniated through a left diaphragmatic hernia that may have been precipitated by a colonic tumour. Prompt surgical intervention following radiological imaging ensured the patient had an excellent post-operative outcome.

CASE REPORT

An 85-year-old female was admitted with a 4-d history

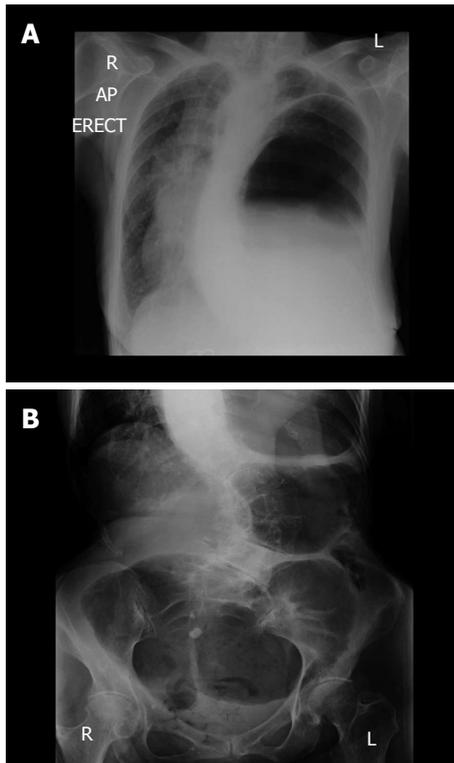


Figure 1 Plain radiographic images of the patient upon emergency admission. A: Erect chest radiograph upon admission demonstrated that the patient had a collapsed left lung and elevated left hemidiaphragm with a large viscous identified under the left hemidiaphragm; B: Plain abdominal radiograph on admission revealed a gas filled viscous within the left upper quadrant consistent with caecal volvulus.

of sudden onset abdominal pain associated with absolute constipation. She had no relevant past medical history and had had no previous abdominal surgery. On examination she had tender but soft abdomen with no signs of peritoneal irritation. The abdomen was markedly distended. There was also hyperactive bowel sound on auscultation. Digital rectal examination demonstrated soft stool in rectum.

Full blood count, urea and electrolytes, liver function tests, and C-reactive protein were all within normal limits. Erect chest radiograph revealed a collapsed left lung and elevation of the left hemidiaphragm with a large viscous identified under the left hemidiaphragm in keeping with volvulus of the large bowel (Figure 1A). Plain abdominal radiograph revealed a gas filled viscous identified within the left upper quadrant in keeping with volvulus of the caecum (Figure 1B). A computed tomography scan with intravenous contrast was performed subsequently which demonstrated that the caecum had herniated through the diaphragmatic hernia and was causing intestinal obstruction (Figure 2). There were no features suggestive of malignancy.

The patient received initial management with intravenous fluid, nasogastric tube drainage, and anti-emetic and analgesic medications. After fluid resuscitation, the patient underwent an emergent laparotomy. A mobile caecum and ascending colon with a long, unfixed mes-

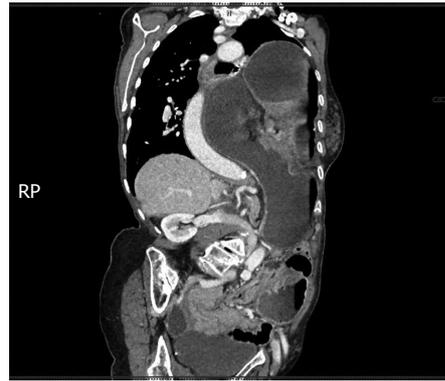


Figure 2 Computed tomography findings on admission. A sagittal computed tomography scan with intravenous contrast clearly demonstrated that the caecum had herniated through a diaphragmatic hernia and was the cause of the intestinal obstruction.



Figure 3 Operative findings at laparotomy. Following reduction of the caecal bascule from the diaphragmatic hernia the caecum demonstrated multiple serosal defects that necessitated right hemicolectomy.

entery was herniated through the diaphragmatic hernia. The caecum was twisted 270° inside the hernial sac and had developed tears in the outer serous membrane of the bowel termed serosal tears. Furthermore the caecum around the serosal tears appeared congested and ischaemic (Figure 3). A right hemicolectomy with a stapled ileo-transverse colonic anastomosis was performed. The diaphragmatic hernia was repaired with a mesh to prevent further herniation. Specifically the hernia sac was excised and the edges of the hernial defect were freshened. A composite mesh was used for the hernial repair. The polypropylene surface of the mesh was sutured into contact with the diaphragm and the polyglactin surface was left exposed to the peritoneal cavity. Histological analysis of the resected bowel revealed a sessile polyp in the ascending colon measuring $38 \text{ mm} \times 32 \text{ mm}$ that was 22 mm from the proximal resection margin. This polyp was a well to moderately differentiated adenocarcinoma arising in a tubulovillous adenoma (pT₂, pN₀, pM_x; Dukes' A). Histology confirmed the adenoma was infiltrating the muscularis mucosae with the cells displaying an irregular tubular structure. There was no evidence of lymphovascular invasion. The patient's postoperative recovery was uneventful and she was discharged after 13 wk.

DISCUSSION

Diaphragmatic hernias resulting from the developmental failure of posterolateral diaphragmatic foramina to fuse properly and was originally described by Salaçin *et al*^[5]. Diaphragmatic hernias typically vary in size, are predominantly left sided, can present at any age and are usually found incidentally^[5-7]. Approximately 100 cases of Bochdalek's hernias in asymptomatic adults have been reported in the literature. The true prevalence of Bochdalek's hernia remains unknown, with estimates ranging from 1 in 2000-7000^[5,6]. Putative causes for late-presenting diaphragmatic hernias include congenital herniation, trauma, physical exertion, pregnancy, sneezing or coughing^[5]. The size of the hernia seen on cross-sectional imaging does not necessarily correspond to the size of the diaphragmatic defect, which may be substantially larger^[8].

Left-sided diaphragmatic hernias may contain fat, retroperitoneal structures, or intraperitoneal contents, although the latter two conditions are rare^[8]. Colon-containing diaphragmatic hernias are exceedingly rare and do usually occur through left-sided defects^[9]. The reported case is the first to report a caecal volvulus within a diaphragmatic hernia. Caecal volvulus occurs as a result of axial rotation of the caecum about its mesentery. The ischaemia and serosal tears observed in the reported patient are likely due to venous congestion of the caecum due to the twisted mesentery^[10]. Other authors have also reported that intestinal volvulus causes intestinal ischaemia^[11]. Previous reports in the literature suggest that tumours may precipitate volvulus^[12,13]. The putative mechanism suggests that high peristaltic bowel centred on the tumour cause a loop of bowel to descend inferiorly. This displaces empty small bowel loops upwards, initiating rotation of the mesentery and causing volvulus^[13].

Martin *et al*^[14] described the first open repair of a diaphragmatic hernia. Although laparoscopic repair of a diaphragmatic hernia has been described this approach is probably best reserved for the elective setting^[15]. In our case after the standard right hemicolectomy was performed for the caecal volvulus the diaphragmatic hernia required repair. Consensus on whether synthetic mesh or primary closure produce the safest and most durable repair for diaphragmatic hernia has yet to be agreed^[16]. The placement of synthetic mesh repair in close proximity to the esophagus runs the risk of erosion^[17]. Synthetic mesh was chosen for the large diaphragmatic defect as in our case. Ethicon Vypro mesh was used for its dual surface properties. It has a fascial side, which induces tissue ingrowth and thus results in better tissue fixation. On the other hand, on its peritoneal side it has a low-porosity smooth visceral surface that minimizes visceral adhesion.

In summary, precise radiological evaluation and

prompt surgical repair results in good outcome in patients presenting with bowel obstruction secondary to a diaphragmatic hernia.

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Patent (list all authors)

- 16 Pagedas AC, inventor; Ancel Surgical R&D Inc, assignee. Flexible endoscopic grasping and cutting device and positioning tool assembly. United States patent US 20020103498. 2002 Aug 1

Statistical data

Write as mean \pm SD or mean \pm SE.

Statistical expression

Express *t* test as *t* (in italics), *F* test as *F* (in italics), chi square test as χ^2 (in Greek), related coefficient as *r* (in italics), degree of freedom as ν (in Greek), sample number as *n* (in italics), and probability as *P* (in italics).

Units

Use SI units. For example: body mass, *m* (*B*) = 78 kg; blood pressure, *p* (*B*) = 16.2/12.3 kPa; incubation time, *t* (incubation) = 96 h, blood glucose concentration, *c* (glucose) 6.4 ± 2.1 mmol/L; blood CEA mass concentration, *p* (CEA) = 8.6 24.5 $\mu\text{g/L}$; CO₂ volume fraction, 50 mL/L CO₂, not 5% CO₂; likewise for 40 g/L formaldehyde, not 10% formalin; and mass fraction, 8 ng/g, *etc.* Arabic numerals such as 23, 243, 641 should be read 23243641.

The format for how to accurately write common units and quantities can be found at: http://www.wjgnet.com/1948-9366/g_info_20100312191949.htm.

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Italics

Quantities: *t* time or temperature, *c* concentration, *A* area, *l* length, *m* mass, *V* volume.

Genotypes: *gvrA*, *arg 1*, *c myc*, *c fos*, *etc.*

Restriction enzymes: *EcoRI*, *HindI*, *BamHI*, *Kbo I*, *Kpn I*, *etc.*

Biology: *H. pylori*, *E. coli*, *etc.*

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