



Contents lists available at ScienceDirect

## International Journal of Surgery Case Reports

journal homepage: [www.casereports.com](http://www.casereports.com)

## Rare case of incarcerated obturator hernia: Case report and review of literature

N.C. Sá<sup>a,\*</sup>, V.C.M. Silva<sup>a</sup>, P.R.L. Carreiro<sup>b</sup>, A.S. Matos Filho<sup>c</sup>, I.A. Lombardi<sup>d</sup><sup>a</sup> General Surgery – Unimed Hospital Belo Horizonte, Brazil<sup>b</sup> Professor Doctor of Surgery of José do Rosário Vellano University – UNIFENAS, Belo Horizonte, Coordinator of General Surgery of Unimed Hospital, Belo Horizonte, Brazil<sup>c</sup> Doctor of Surgery of the Federal University of Minas Gerais – UFMG, Professor of Surgery of Faculty of Minas – Faminas and University Centre of Belo Horizonte – UNI-BH, General Surgeon of Unimed Hospital Belo Horizonte, Brazil<sup>d</sup> FAMINAS, Belo Horizonte, Brazil

## ARTICLE INFO

## Article history:

Received 1 June 2017

Received in revised form 9 June 2017

Accepted 11 June 2017

Available online 23 June 2017

## Keywords:

Intestinal obstruction

Obturator hernia

Howship-Romberg sign

Incarcerated hernia

## ABSTRACT

**INTRODUCTION:** Obturator hernia is a rare condition accounting for less than 1% of all intra abdominal hernias. Clinical diagnosis is considered a challenge for most surgeons. It usually appears as an intestinal obstruction. Confirmation of diagnosis is carried out by means of imaging or during surgery.

**CASE REPORT:** An 85-year-old female patient, with symptoms of intestinal obstruction of 24 h duration was admitted to the emergency room of Unimed Hospital – Belo Horizonte. Abdominal computed tomography (CT) demonstrated a herniation of the small bowel through the right obturator canal with an intestinal distension proximally. At laparotomy, the presence of a right obturator hernia with an ileal strangulation was confirmed. Segmental enterectomy with primary anastomosis and herniorrhaphy for the closure of the obturator foramen were performed.

**DISCUSSION:** Obturator hernias typically affect women, elderly, emaciated and multiparous. Symptoms are non-specific and associated with an intestinal obstruction. Howship-Romberg sign, considered pathognomonic, is generally absent. Abdominal CT scan can aid in pre-operative diagnosis and the treatment is surgical.

**CONCLUSION:** Early diagnosis and surgical treatment are imperative in obturator hernias due to the high morbidity and mortality that occur in cases where the intervention is delayed.

© 2017 The Authors. Published by Elsevier Ltd on behalf of IJS Publishing Group Ltd. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

## 1. Introduction

Quite unusual in medical routine, the obturator hernia accounts for a small part of abdominal hernias. Although rare, it has the highest rate of mortality among them. The challenging clinical diagnosis is frequently missed due to the absence of specific symptoms and signs that usually appear in other inguino-abdominal hernias [1,2]. The most common clinical presentation is intestinal obstruction of an unknown cause and the diagnosis is carried out with the aid of imaging methods such as CT or during exploratory surgery. The obturator hernia affects typically women, elderly, multiparous, emaciated and those with increased intra-abdominal pressure [2,3]. Early diagnosis and surgical treatment are imperative and the delay is associated with a high mortality rate, increased complications rates and increased post-operative length of stay. The treatment can be made by the conventional laparotomy or

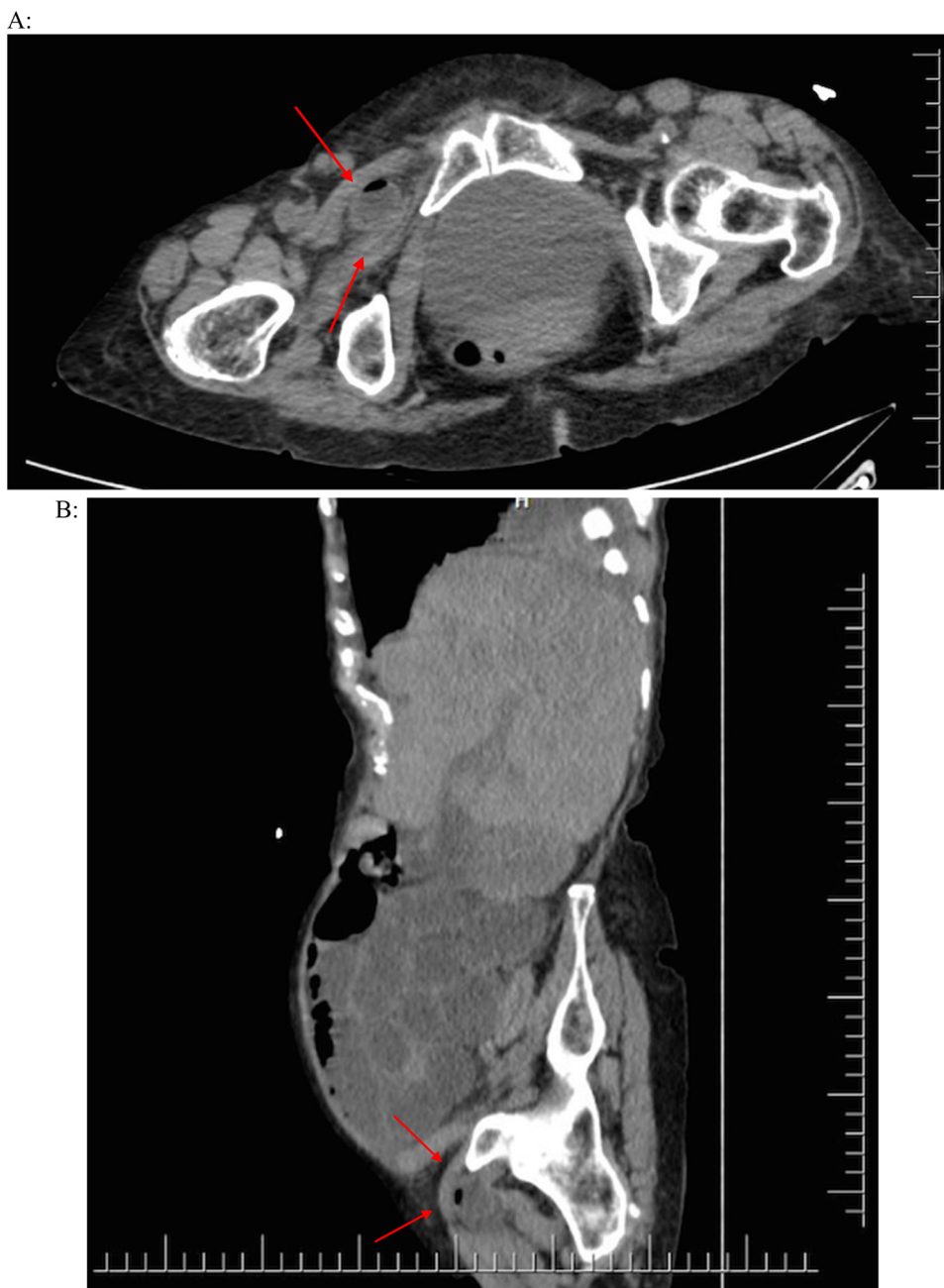
by videolaparoscopy [4,5]. The following accomplishes the SCARE criteria [6].

## 2. Case report

A 85-years-old female patient, was admitted into the emergency ward of the Unimed Hospital – Belo Horizonte-MG, with a 24 h evolution of diffuse abdominal pain and progressive abdominal distension, associated with persistent fecaloid vomit and irradiating pain to the right leg. She reported two similar and self-limited previous episodes. The first one was 4 years ago, and the most recent, 2 months ago. Patient had no previous history of any abdominal surgery. Physical examination revealed a prostrated and underweight female, with distended and tympanitic abdomen, diffuse pain to deep palpation and no signs of peritoneal irritation or inguino-abdominal hernias. Patient refused vaginal examination. She maintained haemodynamic and ventilatory stability. Nasogastric tube revealed fecaloid stasis. Laboratory exams showed leukopenia and an increased C-reactive protein level. Abdominal CT identified a herniation of the small bowel through the right obturator canal and an intestinal distension proximally (Fig. 1). Soon after,

\* Correspondence to: Rua Joviano Naves, 168/301-Palmares, 31155-710, Belo Horizonte, MG, Brazil.

E-mail address: [nayara.carvalho10@hotmail.com](mailto:nayara.carvalho10@hotmail.com) (N.C. Sá).



**Fig. 1.** CT images: A) axial section and B) sagittal section – Showing a bowel segment with hydro-aerial levels through the right obturator canal (arrows).

the patient was submitted to an infra-umbilical midline laparotomy that confirmed the diagnosis – right obturator hernia with ileal strangulation (Richter type). In addition, a Meckel diverticulum was detected (Fig. 2). Segmental enterectomy with primary end-to-end anastomosis and herniorrhaphy using a double-layer mesh for the closure of the obturator foramen were performed.

### 3. Discussion

Obturator hernia is a rare condition accounting for less than 1% of all intra-abdominal hernias [7,8]. It occurs when abdominal viscera traverses the obturator canal through which the nerve and the obturator vessels pass [9]. This type of hernia is 6–9 times more common in women because of their broader pelvis and greater transverse diameter [4,10]. Other risk factors strongly related to

obturator hernias are: elderly, emaciated, multiparous and patients with increased intra-abdominal pressure (chronic obstructive pulmonary disease and intestinal constipation). Such factors can cause loosening of the pelvic floor that favors the onset of the hernia. It is less common on the left side because of the protection that sigmoid colon provides for the obturator canal [4] and can be bilateral in 20% of the cases. Obturator hernias are frequently associated with Richter hernia.

Accurate pre-operative diagnosis is difficult and occurs in less than 10% of the cases [11]. Specific signs and symptoms are not common. Vomiting, lower abdominal pain and symptoms of intestinal obstruction are clinical findings. The Howship-Romberg sign (described as pain exacerbated by extension, abduction and internal rotation of the hip due to compression of the obturator nerve) is considered pathognomonic, although it is reported to be

Download English Version:

<https://daneshyari.com/en/article/5732695>

Download Persian Version:

<https://daneshyari.com/article/5732695>

[Daneshyari.com](https://daneshyari.com)