Asian Januari of Case Reports in Surgery Williams of Case of

Asian Journal of Case Reports in Surgery

3(4): 5-8, 2020; Article no.AJCRS.55766

Unusual Cause of Colonic Occlusion: Large, Twisted Ovarian Cyst Compressing the Sigmoid Colon

Abdelilah Elbakouri¹, Amine Bachar^{1*}, Abdessamad Elazhary¹, Khalid Elhattabi¹, Fatimazahra Bensardi¹ and Abdelaziz Fadil¹

¹Department of Visceral Surgical Emergency, CHU Ibn Rochd, Faculty of Medicine and Pharmacy, Hassan II University, Casablanca, Morocco.

Authors' contributions

This work was carried out in collaboration among all authors. Author AB designed the study, performed the statistical analysis, wrote the protocol and wrote the first draft of the manuscript. Authors A. Elbakouri and AB managed the analyses of the study. Author A. Elazhary managed the literature searches. All authors read and approved the final manuscript.

Article Information

Editor(s)

(1) N. S. Kannan, Tamil Nadu MGR Medical University, India.

Reviewe

(1) Fevzi Cengiz, Izmir Katip Celebi University Training and Research Hospital, Turkey.(2) Eduardo Carvalho de Arruda Veiga, University of Ribeirão Preto of São Paulo, Brazil.

(3) Nicola Basso, University of Rome, Italy. Complete Peer review History: http://www.sdiarticle4.com/review-history/55766

Case Study

Received 20 December 2019 Accepted 24 February 2020 Published 27 March 2020

ABSTRACT

Bowel obstruction is a common complication of advanced ovarian cancer and is rarely described in benign cystic lesions. We report a case of colon obstruction secondary to torsion of a large benign ovarian cyst.

Case presentation: A 25-year-old woman without antecedents was admitted to hospital for sigmoid colon occlusive syndrome. A CT scan revealed a large cyst probably of ovarian origin, resulting in compression of the sigmoid colon. After conditioning, we performed an exploratory laparotomy, revealing a twisted and necrotic right ovarian cyst compressing the recto-sigmoid hinge with its root. A straight adnexectomy was made, the histological findings confirmed the presence of a benign functional ovarian cyst. The hospital stay was uneventful and the symptoms of bowel obstruction were resolved immediately. Torsion of an ovarian cyst is not described as a cause of colon obstruction so far in the medical literature.

Keywords: Colonic occlusion; ovarian cyst; sigmoid colon; adnexectomy.

1. INTRODUCTION

Bowel obstruction accounts for 42% of the complications of advanced ovarian cancer. Although ovarian teratomas and endometriosis can also cause bowel damage, this condition is rarely described in cystic benign lesions [1,2]. We report one case of bowel obstruction due to a large, twisted functional ovarian cyst compressing the recto-sigmoid hinge.

2. CASE PRESENTATION

A 25 year old woman with no pathological history, admitted urgently for an occlusive syndrome that has been evolving for 3 days. Clinical examination found tympanic abdominal

distension with pelvic tenderness, the rectal ampulla was empty on rectal examination. A PSA objectively showed colicky water-aerobic levels. CT scan confirmed colonic occlusion upstream of a large cyst probably of ovarian origin measuring 18 X 12 cm (Fig. 1). Exploratory laparotomy revealed the presence of a large ovarian cyst measuring 20 x 15 cm (Fig. 2), twisted into two turns of coils with total necrosis of the right adnexa, compressing the recto-sigmoid hinge by its root, with the presence of a zone of constriction (Fig. 3), causing colic and hail distension upstream. A right annexectomy was performed and the obstacle was removed (Fig. 4). The postoperative course was straightforward. Histological examination was in favor of a functional benign ovarian cyst.



Fig. 1. CT image showing a large ovarian cyst in pelvic position exerting a mass effect on the recto-sigmoid hinge

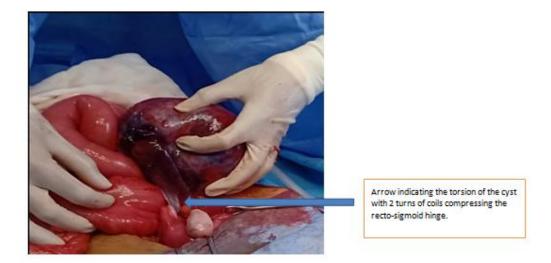


Fig. 2. Intraoperative image showing a large, twisted, necrotic ovarian cyst with colonic compression



Fig. 3. Intraoperative image showing the area of constriction at the recto-sigmoid hinge after distortion of the cyst

3. DISCUSSION

To our knowledge, this is the first reported case of a twisted benign ovarian cyst causing bowel obstruction in a patient during genital activity. There is no consensus definition [2,3]. Adnexal torsion may be defined by the existence of at least one turn of the adnexa around an axis defined by the lumbo-ovarian ligament and tubo-ovarian ligament. It may involve the tube and the

ovary, the ovary alone and less frequently, and the tube alone [4].

The diagnostic reference is the intraoperative visual finding, so the exact prevalence of adnexal torsions cannot be estimated since not all women with pelvic pain have systematic laparoscopy. In patients operated on in emergency for acute pelvic pain, it is estimated to be between 2.5 and 7.4% depending on the series [1,5].

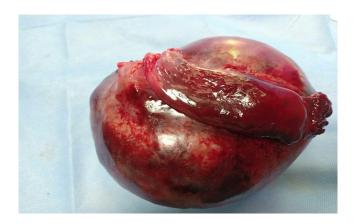


Fig. 4. Image of the right adnexectomy specimen

The right side is most frequently affected, in 60% of cases on average. This could be explained by a right utero-ovarian ligament physiologically longer than on the left, however there is no anatomical data, or by the presence of the sigmoid on the left reducing the space required for torsion. Pelvic pain is the main reason for consultation in 96 to 100% of cases. The association with an occlusive syndrome is not described.

4. CONCLUSION

Exploratory laparotomy has revealed a rare or even exceptional cause of colonic mechanical occlusion associated with torsion of a benign ovarian cyst.

CONSENT

As per international standard or university standard written patient consent has been collected and preserved by the author(s).

ETHICAL APPROVAL

It is not applicable.

COMPETING INTERESTS

Authors have declared that no competing interests exist.

REFERENCES

- Mechera R, Menter T, Oertli D, Hoffmann H. Large ovarian cystadenofibroma causing large bowel obstruction in a patient with Klippel-Feil syndrome - A case report. Int J Surg Case Rep. 2016;20: 17-20.
 - DOI: 10.1016/j.ijscr.2015.12.046 [Epub 2016 Jan 7]
- Mooney SJ, Winner M, Hershman DL, Wright JD, Feingold DL, Allendorf JD, et al. Bowel obstruction in elderly ovarian cancer patients: apopulation-based study. Gynecol Oncol. 2013;129(1):107– 112.
 - DOI: 10.1016/j.ygyno.2012.12.028
- Al-Harfoushi R, Abdulaziz El-H, Andrabi SI, Patterson B, Whiteside M.Ovarian teratoma presenting as small bowel obstruction in an elderly lady-A case report. Int J Surg Case Rep. 2011;2(1):6-8.
 - DOI: 10.1016/j.ijscr.2010.07.004
- Lanitis S, Korontzi M, Karaliotas C. Acute bowel obstruction in a premenopausal woman. Gastroenterol. 2013;144(1):e5-6. DOI: 10.1053/j.gastro.2012.08.040
- Chapron C, Fauconnier A, Fritel A, Dubuisson JB. Acute pelvic pain in women. Diagnostic orientation and course of action. In: CME Gynecology. 1998;162-A-15

© 2020 Elbakouri et al.; This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Peer-review history:
The peer review history for this paper can be accessed here:
http://www.sdiarticle4.com/review-history/55766