Case Report

Textiloma mimicking Crohn’s disease in its features: A case report

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Keywords: Textiloma Gauzoma Crohn’s disease Enteroenteric fistula

1. Introduction

Introduction and importance: Textiloma is a retained surgical item such as a sponge or gauze that is unintentionally left in the surgical field after the wound closure. Here, we present the first reported surgical gauze that penetrated the intestine, made a duodenal-ceca fistula and then stuck far away in the ileum. Mechanical obstruction didn’t appear clinically or even in radiological investigations because of the fistula which provided the intestinal continuity.

Case presentation: We report a 34-year-old man with a previous abdominal interventions complained of cramping, frequent vomiting and presence of undigested food in stool. The frequency of the bowel movement increased recently. Endoscopies, radiological investigations and pathological findings figure out a duodenal-ceca fistula with nonspecific inflammatory tissues in the intestinal biopsy. When we performed the abdomen surgery, retained gauze in the ileum was taken out and the duodenal-ceca fistula was fixed.

Clinical discussion: Gauze or sponge that is forgotten in the surgical field called gossypiboma, textiloma, gauzoma or cottonoid. It could present with various complaints; as an acute or chronic problem, clear or ambiguous symptoms. It could reside in a space; extend across a gap, migrate through a tissue, or even make a fistula between lumina like in our case.

Conclusion: Textiloma could change pre-operative diagnosis, intra-operative techniques, postoperative follow-up plan and prognosis. This is the first report proves its ability to mimic inflammatory diseases that penetrate two different lumina and perform fistula. So it should be written in the list of any differential diagnosis when the patient has a previous procedure or surgery.

2. Case presentation

A 34-year-old male referred to our university clinic with a complaint of cramping and presence of undigested food in stool. The frequency of the bowel movement increased recently. Frequent vomiting was also developed. The patient denied bloody stool, weight loss, fever or chills.

In the past, the patient had open appendectomy five months ago, laparoscopic cholecystectomy seven months ago and open varicocelectomy twenty years ago. Past medical history, family medical history, psychosocial history and drug were unremarkable. His routine labs were unremarkable, and the abdominal ultrasound had no specific findings. Upper gastrointestinal series proved an enterocolic fistula [Fig. 1]. Abdominal computed topography (CT) scan displayed the fistula between the 2nd segment of the duodenum and the cecum. It also showed a small bowel wall thickening [Fig. 2]. The patient underwent colonoscopy which was normal except a (≤2 cm) polyp in the cecum. It was resected and its histology was a hyperplastic. Upper gastrointestinal...
endoscopy found erythematous in the third part of the duodenum. Biopsies were taken from this area and the results showed non-specific inflammatory features. These were the only notable preoperative investigations which suggested Crohn’s disease. Surgical decision was made to improve the patient’s compliant. Intraoperatively, the duodenal-cecum fistula was found [Fig. 3]. Before we fixed it, we explored an intraluminal mass of the ileum. It was gauze [Fig. 4]. We exerted it, resected the fistula of intestine and then restored the intestine continuity. Postoperative monitoring was unremarkable. The patient’s diet went back normal gradually in days. Follow-up for one year showed there were no complications and the procedure relieved the symptoms.

3. Discussion

Textiloma is reported in one out of 1000–15000 intra-abdominal operations [7]. The risk factors for retained instruments and sponges after surgery include emergent surgery, high body mass index, busy surgical fields and unplanned changes in procedures [8]. Textiloma should be considered as a differential diagnosis of any mechanical obstruction in patients who underwent abdominal surgery [2]. The radiological diagnosis of textiloma is easily made by plain abdominal radiography, when a radio-opaque marker is seen. However, these markers could disintegrate or fragment over years after the surgery [9]. Foreign bodies may completely migrate into the ileum without any apparent opening in the intestinal wall, but they usually cannot pass the ileocecal valve and cause complete obstruction [10]. However, the mechanical obstruction didn’t act in our case because of the duodenal-cecum fistula that had made by the gauze. That fistula which appeared on the contrast series and CT scan directed the physicians to put Crohn’s disease as an initial diagnosis. Crohn’s disease used to be the first accused disease can result in fistula formation in the gastrointestinal tract [11]. But we learned from our case that occasionally the absolute diagnosis couldn’t be reached till an exploratory surgery is done. The surgical technique to fix the fistula didn’t perform before the whole entire abdomen was explored. The complete mechanical obstruction was silent in the ileum; leaving it unintentionally would definitely add further malpractice, increase the suffering of the patient postoperatively and return him to the operating room urgently.

4. Conclusion

Gauze that is forgotten in the surgical field could present later with various symptoms in days, months or even years. It is not uncommon to make the diagnosis by an exploratory surgery. Textiloma could change
any pre-operative diagnosis, so it should be in the list of any differential diagnosis when the patient has a previous procedure or surgery.

**Ethical approval**

Informed consent was taken for this case report. Our study ethical aspects were reviewed and approved by Damascus University deanship, Damascus, Syria.

**Sources of funding**

No funding was received for this study.

**Consent**

Written informed consent was obtained from the patient for publication of this case report and accompanying images. A copy of the written consent is available for review by the Editor-in-Chief of this journal on request.

**Author contribution**

All the authors made an equal contribution to the creation of the presented clinical case.

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**Fig. 2.** Contrast abdominal computed tomography scan: a) A fistula between the 2nd segment of duodenum and cecum, cecal wall thickening, mild enlarged pericecal lymph nodes, b) small bowel wall thickening in the left upper quadrant and change in the density of the fat around.
Fig. 3. a) Fistula between the 2nd segment of duodenum and cecum; b) fistuloectomy.

Fig. 4. a), b), c) & d) Intraluminal gauze was detected and exerted from the ileum.
Registration of research studies

1. Name of the registry: This case report is not a first time of reporting new device or surgical technique. So I would not need a Research Registry unique identifying number (UIN).

2. Unique Identifying number or registration ID:

3. Hyperlink to your specific registration (must be publicly accessible and will be checked):

It is a case report not a research.

Guarantor

Mhd Belal Alsabek.

Provenance and peer review

Not commissioned, externally peer-reviewed.

Declaration of competing interest

The authors declare that there is no conflict of interests regarding the publication of this paper.

Appendix A. Supplementary data

Supplementary data to this article can be found online at https://doi.org/10.1016/j.jamsu.2021.01.016.

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