Abdominal Textiloma, 10 Years after an Appendectomy: Case Report
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Abstract
Textiloma commonly refers to a foreign textile body (compress or surgical field), left involuntarily during a surgical intervention. Its preoperative diagnosis remains difficult due to the absence of pathognomonic clinical and radiological signs. It is a surgical complication which represents a typical example of medical malpractice, the exact incidence of which is difficult to determine due to possible legal repercussions, hence the need for a systematic approach to the organization of the operating room and the implementation of strict textile counting protocols in order to avoid this type of incident. We report a case of a textiloma that developed 10 years after an appendectomy.

Keywords: Textiloma, medical malpractice, textile, counting.

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INTRODUCTION
Textiloma, or gossybipoma (derived from 'gossypium' meaning 'cotton' in Latin and 'boma' meaning 'place of hiding' in Swahili), is an inflammatory granuloma centered by textile fibers (compress or field surgical) forgotten at the level of an operative site [1, 4]. It is an extremely rare postoperative complication predominantly in the abdomino-pelvic region [2], and is one of the most publicized medical errors. Reporting to us the case of a textiloma revealed 10 years after an appendectomy.

PATIENT AND OBSERVATION
We report the case of a 50-year-old patient with an antecedent of appendectomy 10 years ago, the postoperative effects were simple, and the pathological study supporting lymphoid hyperplasia of the appendix; Admitted for pain in the right iliac fossa progressing in flares for a few months, without other associated signs, in which the physical examination revealed a scar from McBurney-type laparotomy and tenderness of the right iliac fossa. He initially benefited from a biological assessment returning to normal, in particular no inflammatory syndrome, then an abdominal ultrasound objectifying a right pelvic solido-cystic mass, containing calcifications of well-circumscribed oval shape, measuring 35* 32 mm not vascularized in the study doppler, associated with a slight dilation of the right urinary tract (Figure 1). To better characterize this ultrasound image, an abdomino-pelvic tomodensitometry was performed showing a cystic formation with a tissue contingent, oval 44* 36* 45 mm not enhancing after injection of the contrast product, also containing images of calcium density practically metallic, making the eventuality of a textiloma very likely (Figure 2).

The Surgical exploration revealed a mass of about 40 mm in diameter at the level of the right iliac fossa of hard consistency, adherent to the last ileal loop and the cecum, after its release from its intercourse, its opening revealed that it is a compress marked by a radiopaque thread (Figure 3), thus confirming the diagnosis of a textiloma, the operative consequences were simple, and the patient was discharged from the hospital 2 days after surgery.
Fig-1: Ultrasound image showing a right pelvic solido-cystic mass of well circumscribed non-specific oval shape

Fig-2: A-B, cystic formation with a contingent tissue, not enhancing after injection of the product of contrast, also containing images of almost metallic calcium density; C, 3D reconstruction showing the foreign body

Fig-3: A) Operative image showing the mass of the right iliac fossa which is adherent to the last ileal loop and the cecum; B) The opening of the operating mass revealed the compress marked with a radiopaque wire
DISCUSSION

Textiloma is a fear of all surgeons, which can lead to forensic proceedings, and is responsible for multiple complications. Its incidence is not known but it is reported between 1/100 and 1/3000 surgical operations and between 1/1000 and 1/1500 abdominal surgeries [3], the first case of which was reported by Wilson in 1884, and the literature only has isolated cases and short series [4]. The risk factors are presented mainly by an emergency surgical procedure, an unexpected change of procedure, obesity, as well as the intervention of more than one surgical team, the interventions during the second half of the night, the losses blood levels and the absence of counting of textiles and instruments [5].

The textile forgotten intraperitoneally remains free for the first 24 hours, then its fibers cause an inflammatory reaction with exudation known as ‘gossypidoma’, which creates adhesions with the surrounding tissues and generates the constitution of an inflammatory granuloma towards the 8th day and fibrosis is organized from the 13th day. This development explains, in the absence of infection, the possibilities of encystment or even calcifications with a sometimes long tolerance as in our observation [6, 7]. The infection of the foreign body is expressed by infectious clinical signs allowing early diagnosis, otherwise the inflammatory process progresses to encystment or even calcification with sometimes very long tolerance. The course of textiloma is unpredictable [8, 9]. Thus, its elimination can be by fistulization to the skin or hollow organs, and migrations have been described through the diaphragm, the intestinal wall with obstruction, the vagina [10].

This disease can progress insidiously, with late discovery, several years after the initial intervention, accidentally or in a picture of "tumor syndrome" [2]. What makes the history and the notion of previous operations and between 1/1000 and 1/1500 abdominal surgeries [3], the first case of which was reported by Wilson in 1884, and the literature only has isolated cases and short series [4]. The risk factors are presented mainly by an emergency surgical procedure, an unexpected change of procedure, obesity, as well as the intervention of more than one surgical team, the interventions during the second half of the night, the losses blood levels and the absence of counting of textiles and instruments [5].

The real treatment lies in the establishment of means of prevention represented mainly by the counting of compresses and fields by the operating team at the beginning and at the end of the intervention, which remains an effective but still insufficient means. As well as the use of radiopaque labeled compresses proposed by CROSSSEN and al in 1940 [11, 12], which allows an X-ray to be taken on the operating table in case of doubt.

CONCLUSION

The risk of forgetting textiles must always be taken into consideration with each surgical intervention, as it can lead to serious complications, as well as medico-legal proceedings involving the responsibility of the operating team. This should be the subject of awareness-raising, emphasizing caution and taking preventive measures seriously.

Conflicts of interest: The authors declare that they have no conflicts of interest.

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