Utero-cutaneous Fistula after Multiple Abdominal Myomectomies: A Case Report

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Background: Utero-cutaneous fistula (UCF) is an extremely rare entity and only a few case reports have been published. Most UCFs develop secondary to postpartum or postoperative complications. Case Report: A 42 year-old woman began to complain from bleeding and malodorous discharge through her abdominal incision scar. The fistula tract with a thickness of 8 mm was observed between the uterus and wound using magnetic resonance imaging (MRI). The risks and benefits of conservative treatment have been discussed; the patient demanded definitive treatment, so hysterectomy and excision of the fistulous tract was performed. Histopathology of the fistulous tract showed endometrial epithelization of the tract lined by granulation. Conclusion: There are many causes of such an extremely rare entity. Patients should be counseled for medical or surgical treatment considering their age, accompanied uterine pathologies such as fibroids and fertility expectations. Keywords: Abdominal myomectomy, post-operative complication, utero-cutaneous fistula

CASE PRESENTATION

A 42-year-old woman was referred to our clinic for bleeding through her abdominal incision scar during menstruation (Figure 1). She had undergone an abdominal myomectomy for a single large anterior fibroid 12 years previously. Also, a second abdominal myomectomy operation was performed three months prior to presentation for recurrent single anterior uterine fibroid. After surgery, her first menstruation cycle was normal. The patient began to suffer from bleeding and a malodorous discharge from her incision scar two months after surgery. On abdominal examination, the uterus was anteverted, sized about eight weeks gravid with multiple intramural fibroids, and there was a low transverse scar about 10 cm in length that had a sinus opening of 10 mm. The patient was a virgin and declined vaginal examination and the methylene blue test because she did not want to risk damaging the hymen. UCF was suspected with transabdominal sonography (Voluson 730; General Electric, Tiefenbach, Austria) (Figure 2) and the diagnosis was confirmed by MRI (MAGNETOM Symphony, A Tim System 1.5T eco; Siemens, Erlangen, Germany) (Figure 3 and 4). A fistulous tract with a thickness of 8 mm was observed between the uterus and the abdominal scar in the MRI. The patient had no wish for future childbearing and...
underwent explorative laparotomy and hysterectomy. Intraoperatively, the fistula was seen to be extended to skin from the right cornual part of the uterus. Endometrial epithelialization of the fistula tract was observed grossly visible during the operation. Histopathology of the fistulous tract showed endometrial epithelization and the tract lined by granulation. Also, histopathological examination showed several uterine fibroids with various dimensions. She was discharged from the hospital 5 days after the surgery and made a return visit one month later. She had no complaints and there was no pathology according to her physical examination. Written informed consent was obtained from the patient before preparation of this manuscript.

DISCUSSION

Uterocutaneous fistulas are very rare fistulas. Their diagnosis and treatment may be difficult sometimes, and there is no consensus regarding whether medical treatment is effective as an initial treatment modality. Surgeons are familiar with urinary and genital fistulas but only a few cases of utero-cutaneous fistulas have been reported. The majority of patients with these fistulas have a history of a classical cesarean section. In recent years, the incidence of UCFs has decreased as a result of the decline in classical incisions for cesarean section (3). In this case, the suspected cause of this entity was a history of multiple uterine surgeries resulting in dense adhesions between the uterus and the abdominal wall, which became thinner and less vascularized.
Blood leakage from the incision scar during menstruation is the pathognomonic finding of UCF. The diagnosis is confirmed by fistulogram, tomography, MRI or methylene blue test if there is a suspicion of this diagnosis (4). In this case, we confirmed the diagnosis by observing menstrual bleeding through the skin and the fistula tract as seen on the MRI.

Gonadotropin-releasing hormone (GnRH) analogs may be given to aid with the spontaneous closure of the fistula tract if the patient wants her uterus to be preserved. However, only two studies have shown successful non-surgical treatment with GnRH (5,6). The limitations of medical treatment are long treatment process and possible failure requiring surgical treatment. The exact treatment of UCFs is surgical excision of the fistula tract with or without hysterectomy. In these cases, women were counseled for surgery or medical treatment with a GnRH analog. For women who do not wish to preserve their fertility, hysterectomy and excision of the fistula tract should be performed.

In conclusion, many possible causes may predispose women to such an extremely rare entity and affected women need to be counseled for medical or surgical treatment considering their age, accompanying uterine pathology, and desire to preserving their fertility.

**Ethics Committee Approval:** Ethics committee approval was received for this study from the ethics committee of Süleyman Demirel University.

**Informed Consent:** Written informed consent was obtained from patients who participated in this case.

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**REFERENCES**