Atypical Sites of Endometriosis: Primary Inguinal Cutaneous Endometriosis

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Abstract

Endometriosis is a chronic inflammatory disease defined as the presence of endometrium-like tissue outside the uterus [1]. It is mostly found in women of reproductive age, within the general female population from 2 to 10%, up to 50% in infertile women [1]. Endometriosis lesions can be classified as ovarian, exclusively extra-ovarian or mixed [1-3]. The common sites of endometriosis are the ovaries, fallopian tubes, pelvic peritoneum and uterosacral ligaments, whereas the atypical sites include the gastrointestinal tract, urinary tract, soft tissues, chest etc [1-4]. Depending on the involved site, women can present with various symptoms. Most common are deep pelvic pain, dyspareunia and dysmenorrhea, but can be bowel obstruction, melena, hematuria, dysuria, dyspnea and swelling in soft tissues [1-4]. The average between onset of symptoms and diagnosis is between 8-12 years [1]. Diagnosis of extra-pelvic endometriosis can be demanding.

Case Description

We report a case of rare, atypical site of endometriosis - primary inguinal cutaneous endometriosis. It is relatively uncommon and occurs when endometrial glands and stroma reside in the skin. Cutaneous endometriosis can be divided into primary and secondary endometriosis, depending on past medical history. A 27-year-old woman, gravida 0, para 0, presented to our Gynecology Department with flares of sharp, focal pain in inguinal region and connected it with her menstrual
is a rare disorder that can mimic presentations of other diseases. If is suspected, a punch biopsy can be

discussed.

Cutaneous endometriosis represents 0.5-1.0% of patients with atypical site of endometriosis [1,4]. It is often associated with prior surgical medical history [1,4]. If it presents without it, it is known as primary spontaneous cutaneous endometriosis [1-6]. From all extrapelvic endometriosis, umbilical occupies over 40%, followed by the inguinal area, perineal region and abdominal wall [4,6]. The mean age at presentation is 34 years [7]. The clinical diagnosis relies mostly on the recognition of the cyclic symptoms of pain and swelling of the lesion [1-6]. Almost 25% of women with cutaneous endometriosis also experience intrapelvic endometriosis [6], although our patient did not have any signs of it. Originates due to reflux of menstrual tissue through the oviducts, mechanical placement of endometrial tissue post-abdominal operation, presence of embryonic rests, peritoneal mesothelial cells becoming metaplastic (celomic metaplastic theory) or lymphatic and vascular spread [1,7]. The most commonly accepted pathogenesis are lymphatic or vascular migration due to migration of endometrial tissue from retrogression of menstruation [1,4,6]. A punch biopsy is not commonly used to diagnose endometriosis, however, if performed the results may show the presence of epithelial membrane antigen, CD 10, estrogen, progesteron receptors or Ki67 [7,8]. Cutaneous endometriosis is treated with surgical resection [1,4,6]. Histopathological examination is crucial and major discovery is that the tissue is consisted from endometrial glands with encompassing fibrotic stroma [1,7,8]. Primary cutaneous endometriosis can be differentially diagnosed with lymphatic nodule, keloid, dermatofibroma protuberans, cutaneous metastasis of cancer or dermatofibroma [2,6] (Figure 1, Figure 2 and Figure 3).

Conclusion

We conclude that primary cutaneous endometriosis
performed, but surgical excision of the affected tissue and histopathological analysis is the golden standard. This implies that the diagnosis is difficult and requires a great deal of effort, skill and expertise to identify and confirm.

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**References**


