ISSN: 2641-1644

(8)

DOI: 10.32474/OAJRSD.2019.02.000138

Case Report

Diagnosis and Management of Vaginal Endometriosis Involvement in Postmenopausal Woman. A Case Report

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Received:

March 01, 2019

Published:

March 07, 2019

Abstract

Endometriosis is a pathology which affects up to 10% of the female population in reproductive age characterized by the presence of actively functional endometrial ectopic tissue that suffers cyclical changes that are induced by the ovarian hormones, which produces a chronic inflammatory reaction. This disease occurs during the reproductive years and is rarely diagnosed after menopause.

Case Report: A 51 years old woman, who had had a unilateral laparoscopic adnexectomy due to an endometrioma one year before, was admitted because of postmenopausal vaginal bleeding. The medical examination only showed two polypoid formations of 1 and 3cm located on posterior vaginal fornix which presented with smooth cystic surface. A histological analysis was carried out revealing an endometriotic nature. Despite the bleeding, the patient was asymptomatic, consequently a close monitoring was adopted.

Discussion: Typically, endometriosis resolves after natural or iatrogenic menopause due to declining estrogen levels. Nonetheless, case reports over the years have highlighted the incidence of recurrent postmenopausal endometriosis. Occurrence or progression of postmenopausal endometriosis lesions could be related to extra-ovarian production of estrogen by endometriosis lesions and adipose tissue, which becomes the major estrogen-producing tissue after menopause. Hormone therapy (HT) may reactivate endometriosis and stimulate malignant transformation in women with a history of endometriosis.

The risk of malignant transformation of premenopausal endometriosis is around 1%. Furthermore, patients with endometriosis have an increased risk of ovarian cancer and other malignancies. These transformations appear to be further elevated in patients who take HT, although this issue is not fully elucidated. The evidence is currently insufficient to support a conclusion about the optimal HT for women with endometriosis. Given the uncertain risks of initiating it, it is laborious to determine the best management.

Conclusión: Vaginal involvement is an atypical endometriosis location, especially in menopausal women, thus close surveillance is necessary.

Keywords: Endometriosis; Menopause; Vaginal Diseases; Vaginal Bleeding

Introduction

Endometriosis is a pathology which usually occurs during the reproductive period and is rarely diagnosed after menopause [1]. The prevalence of postmenopausal endometriosis is around 2-5% and it is not known yet whether it is a progression of a previously existent endometriosis or it develops de novo [2]. It is thought that the pathogenic mechanism of postmenopausal endometriosis may involve "estrogen threshold theory". According to this theory a reactivation of endometriosis islets is produced, even in the lower estrogenic menopausal state. Nevertheless, de novo endometriosis

lesions after menopause can also be produced [3]. The main clinical manifestations consist of endometrial implants, being the pelvic organs the most frequent locations. However, different locations of endometriosis are described, as cutaneous, intestinal or ureteral foci.

The management of endometriosis after menopause is still controversial but, in most cases, the first line of treatment includes surgery [4]. Recurrences are common and second-line drug treatment could be necessary [5]. Although endometriosis is a

benign disease, postmenopausal endometriosis brings an increased risk for malignancy up to 1% of cases. Several cases of neoplasia on postmenopausal lesions have been reported, being ovarian cysts the most frequent way in which a malignant lesion can appear. This finding should encourage clinicians to have a close surveillance of postmenopausal women who suffer from endometriosis [6]. We introduce an uncommon location of postmenopausal endometriosis and its management.

Case and Methods

A case of a 51-years-old woman who consulted due to postmenopausal bleeding is conducted. Highlighted as personal background, the patient was Gravida 1 Para 1 (C-section), postmenopausal for 2 years and had rheumatoid arthritis and dyslipidemia following treatment with methotrexate and statins. The year before unilateral right laparoscopic adnexectomy was performed due to a five cm expansive cyst diagnosed by magnetic resonance (MR). Laparoscopic findings showed a normal uterus and left ovary while the right ovary presented a multicystic solid

formation described as "a bunch of grapes". The final pathological analysis informed of an endometrioid fibrous lesion. Rest of exploration was out of any endometriosis foci.

At present time, the patient came at emergency unit with postmenopausal vaginal bleeding. The medical examination only showed two polypoid formations of 1 and 3cm located on posterior vaginal fornix which presented a smooth cystic surface (Figures 1 & 2). The rest of the vaginal exploration was anodyne. Transvaginal ultrasound showed a 3.5cm intramural-sub serosal leiomyoma located in the anterior wall of the uterus and a 6.2mm endometrial line. No other endometrial implants were found by the ultrasound examination. The pathological analysis of the vaginal injury was carried out revealing its endometrial nature with CD 10 positive reaction in peri glandular stromal cells and either estrogen or progesterone receptors in stromal cells and glands. A routinely endometrial sample was taken which revealed no proliferative activity and atrophic endometrial mucosae. Despite the bleeding, the patient stayed asymptomatic. Consequently, a close monitoring was adopted to be performed every three months.

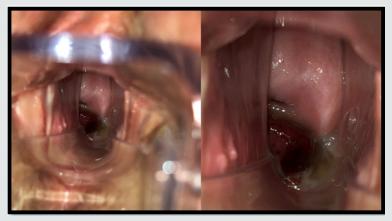


Figure 1: Vaginal lesions discovered in the first examination.



Figure 2: Vaginal endometriosis maintain stable in a subsequent visit.

Discussion

Typically regarded as a premenopausal disease, endometriosis resolves after natural or iatrogenic menopause due to declining estrogen levels. Nonetheless, case reports over the years have highlighted the incidence of recurrent postmenopausal endometriosis. According to these studies, the prevalence of postmenopausal endometriosis is 2-5% [7]. Asymptomatic endometriosis lesions can be discovered incidentally during pelvic imaging or surgical interventions performed on postmenopausal women for other conditions. Many different locations of postmenopausal endometriosis were described [8-10]. Data on the physio pathological mechanisms implicated in postmenopausal endometriosis are limited. Postmenopausal endometriosis is even more complex, because it is not known whether it is a continuation of a previous disease or it develops de novo. After menopause, endometriosis lesions can be stimulated by estrogen from extraovarian sources including adipose tissue, the adrenal glands, or an exogenous source (e.g. hormone menopause therapy, MHT) [11]. Another mechanism has been suggested is the estrogen production by the endometriosis lesions. According to Bulun and colleagues, aromatase is expressed in endometriosis implants and in the ectopic endometrium of women with endometriosis; autocrine and paracrine effects result in local production of estrogen [12,13].

The risk of malignant transformation of premenopausal endometriosis is around 1% occurring most commonly in ovarian lesions [14]. Furthermore, patients with endometriosis have an increased risk of ovarian cancer and other malignancies. The risk of malignant transformation increases after menopause and after introduction of MHT, especially in case of unopposed estrogen substitution [15]. Since there have been contradictory reports on postmenopausal HT used in women with previously known endometriosis, in 2010, European Menopause and Andropause Society reported a position statement regarding to managing menopause in women with previous history of endometriosis [16]. As pointed out in the European Menopause and Andropause Society's statement, today we accept that hormonal therapy may reactivate residual lesions, and the risk of malignant transformation of endometriosis had to be considered in postmenopausal women. The most common malignancies associated with endometriosis were endometrioid and clear-cell ovarian cancers [17]. Several cases of neoplasia in postmenopausal endometriosis lesions have been reported in the literature and are summarized in a review article by Soliman, et al. [18].

First line treatment for symptomatic endometriosis in postmenopausal patients should be surgical, mainly due to the risk of malignancy. However, surgery in such patients may carry some risks. Firstly, such cases are older when compared with cases at reproductive ages, thus may have comorbidities. Secondly, these patients may have previous surgeries, accordingly, may have higher operative risks. Nevertheless, recurrences are common

after surgical treatment and second-line drug treatment may be necessary. Medical treatment has been studied in women with endometriosis in post menopause. Due to hormonal peripheral conversion, aromatase inhibitors may propose a new alternative for postmenopausal patients with endometriosis [19,20].

Conclusion

Vaginal endometriosis in postmenopausal women is an extremely rare condition. Malignant transformation seems to be increased. The evidence is currently insufficient to support conclusions about the best management in these patients. Multicenter studies should be performed about endometriosis and menopause.

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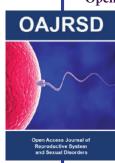
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DOI: 10.32474/OAJRSD.2019.02.000138



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