Research Article

Multi Centric Paget’s Disease and Review of Literature

Abstract

Introduction: Paget’s disease of the vulva (PDV) is a very rare malignancy originating in vulvar apocrine-gland-bearing skin cells. Based on multi centric nature of Paget’s disease, it's a chronic and relapsing course. The aim of this report is to introduce a case of multi centric Paget's disease and review of literature.

Case report: A 62-year-old woman with complaints of vulvar pruritus, painful vulvar lesion for 4 years was referred to oncology department of Ghaem hospital, Mashhad University of Medical Sciences in 2016. Pathological results of erythematous and exfoliated lesion in the posterior wall of the bladder and biopsy detected urothelial carcinoma in the bladder. Radical cystectomy was performed subsequently. In addition, complete response of vulvar lesion to imiquimod cream was seen after 6 weeks of therapy. The patient is free of disease and now she is under serial follow-up.

Conclusion: Generally standard treatment modality in patients who experienced multicenteric Paget's disease is surgical resection, also topical 5% imiquimod cream may be considered as an alternative option in setting metastatic vulgar Paget.

Introduction

Paget’s disease of the vulva (PDV) is an extremely rare intraepithelial neoplasm, accounting for only 1% of vulvar malignancies [1]. Based on origin of neoplastic paget cells in the classification system of Wilkinson and Brown, two types of PDV, primary and secondary disease has proposed. Primary cutaneous Paget's disease, an intraepithelial adenocarcinoma, arises within the epidermis or underlying skin appendages. Secondary or non-cutaneous Paget's disease originates from an underlying non-cutaneous adenocarcinoma. Most commonly anorectal adenocarcinoma, urothelial carcinoma (bladder or urethra), carcinoma of the cervix [2]. 10% of patients with Paget’s disease of the vulva have an underlying second malignancy. A diagnostic biopsy and immunohistochemical studies may be of great use in distinguishing primary and secondary lesions [3]. The most common presenting complaint and clinical manifestation of patients are well-demarcated, thickened, pruritic, erythematous, or white scaly plaque with irregular borders commonly develop in postmenopausal women. The patient always suffers for several years before seeking medical advice [4]. In Japanese study, Paget’s disease of the vulva was seen 5 years later than the onset of the disease and 87.5% of patients suffer of vulvar eczematous change with itching [5]. Standard treatment of PDV is surgical excision. Preoperational evaluation of these lesions is important, because 20–30% of cases have an underlying malignancy [6]. Wong et al., reported that 26% of the women had underlying adenocarcinoma, and twenty–two percent of cases had additional malignancies at other sites, which is consistent with other reports [7]. Over the years, many therapeutic modalities have been attempted on patients with PDV in an effort to reduce the significant morbidity associated with the after–radical surgical treatments [8]. Because of the rarity of this disease, we report a case of multi centric Paget’s disease and review of literature.

Case Report

A 62–years old female was in natural menopause for 14 years. She was referred to oncology department of Ghaem hospital, Mashhad University of Medical Sciences in July 2016. She suffered of painful vulvar lesion with severe purities for 4 years. In examination, an erythematous and exfoliated lesion of the right major and minor labia extend to anus was detected.

Keywords: Paget's disease; Multi centric disease; Carcinoma; Review of literature

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It also extended up to the clitoris, but did not invade to external urethral meatus. She had history of using recurrent topical corticosteroid. The result of the biopsy was PDV with full-thickness involvement (Figure 1). In investigations, she had persistent hematuria. Screened for any associated underlying malignancies including breast examination, mammography, pelvic and abdominal ultrasonography, colonoscopy, and chest X-ray were normal. Pelvic CT scan was revealed irregularity of the posterior wall of the bladder. Results of cystoscopy biopsy determined low-grade urothelial carcinoma (Figure 2). As an associated malignancy, she underwent successful radical cystectomy. In addition, treatment proposed for the vulvar lesion topical imiquimod 5% cream to be applied every other day after confirming of bladder carcinoma. After 6 weeks of therapy, the patient is free of disease and now is under serial follow-up.

This paper has been performed according to patient’s informed consent.

Discussion

In patients with PDV, higher rate of underlying adenocarcinoma was observed; like our patient who had bladder carcinoma, but her manifestation was PDV. The most common site of involvement up to 60% of Paget’s disease is the vulva [9]. All patients with PDV have poor outcomes and should be screened for any associated malignancies. The investigations should include mammography, CT scan of the pelvis and abdomen, trans-vaginal ultrasonography, and cervical cytology. Colonoscopy should be undertaken if the lesion involved the anus, while if the urethra is involved, cystoscopy is indicated [10]. Investigation in our patient revealed bladder carcinoma. The median interval from the onset of symptoms to a histological diagnosis was approximately 20 months, which suggests that the disease is slowly progressive [11]. We had delayed diagnosis of 4 years in this patient. Many patients undergo multiple surgical procedures, including wide local excision with a gross margin of 2–3 cm which is confirmed by frozen section analysis. However, margins of primary surgical specimens are positive in more than half of the patients, so careful attention should be undertaken during surgery [12]. Also, because the disease usually extends well beyond the gross lesion, resection of the fascia must be keeping in mind. In addition, simple or radical vulvectomy may be considered. Consequently, limiting resection in favor of the preservation of the clitoris, urethra, and anus is recommended [13]. However, underlying carcinoma in our patient influenced in medical treatment of PDV. Due to the high morbidity, side-effects, local failure and frequent recurrences of surgical treatment, nonsurgical therapy has been proposed. These modality treatments include topical photodynamic therapy, fluorouracil (5–FU), and 5% imiquimod cream that lead to effective results. Also, regardless of the involved area, clinical response, symptom control and preserving cosmetic features was obtained. Also in a meta-analysis study in Cochrane they not agree with any interventions after treatment of PDV in prevent of recurrence [14]. In our patient, due to waiting time for treatment of bladder carcinoma, since PDV was metastases of this cancer, topical therapy was applied, so we are unable to compare these two methods of therapy. Mostly invasion of adjacent organ due to metastases of bladder carcinoma was occurred in direct invasion by tumors. Above mentioned, the involving vulva (Paget’s disease) as a metastatic lesion of bladder carcinoma may be occurred; also it is very rare. Hence, in the management of PDV, long-term monitoring of patients is recommended and repeat surgical excision is often necessary [15]. The optimum treatment regimen needs to be investigated in future prospective studies.

Conclusion

Generally standard treatment modality in patients who experienced multi centeric Paget’s disease is surgical resection, but topical 5% imiquimod cream should be considered as An alternative to surgical treatment including of the vulva.

References


