Case Report / Olgu Sunumu

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Inflammatory Pseudotumor of the Urinary Bladder Mimicking Bladder Cancer Secondary to Diverticulitis of the Sigmoid Colon

Sigmoid Kolon Divertikülüne Sekonder Gelişen Mesane Tümörünü Taklit Eden Mesanenin Enflamatuvar Psödotümörü

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Summary

A case of inflammatory pseudotumor of the urinary bladder secondary to diverticulitis of the sigmoid colon without colovesical fistula was reported. The patient was admitted with suprapubic sensibility and dysuria. Computerized tomography (CT) strongly suggested a bladder tumor with invasion of the rectum. We performed partial cystectomy and partial colectomy. Histological examination revealed an inflammatory pseudotumor together with diverticulum of the sigmoid colon. This diverticulum may have ruptured to cause the inflammatory pseudotumor of the bladder.

Key Words: Inflammatory pseudotumor, bladder tumor, diverticulitis of the sigmoid colon

Özet

Sigmoid kolon divertikülüne sekonder gelişmiş henüz mesaneye fistülize olmamış, mesanenin psödotümörü olgusu sunuldu. Hasta kliniğimize suprapubik hassasiyet ve dizüri ile başvurdu. Bilgisayarlı tomografide (BT) rektuma invazyon gösteren, mesane tümörünü düşündüren kitle tespit edildi. Hastaya parsiyel sistektomi, parsiyel kolektomi uygulandı. Histolojik değerlendirmede sigmoid kolon divertikülüyle birlikte inflmatuar psödotümör histolojisi gözlendi. Biz bu divertikül rüptürünün mesanede inflamatuar psödotümöre neden olduğu düşündük.

Anahtar Kelimeler: Enflamatuvar psödotümör, mesane tümörü, sigmoid kolon divertiküliti

Introduction

Pseudotumors of the bladder are uncommon and sometimes misdiagnosed as real tumor. We reported such a case caused by diverticulitis of the sigmoid colon without fistula which was suspected a colon or bladder cancer even after computed tomography and cystoscopy.

Case Report

Fifty-seven years old man patient was admitted to our clinic with suprapubic tenderness and dysuria. Urinary ultrasonography showed the lesion that extending to the bladder lumen from the left wall. Urinary cytology was negative. Cystoscopy detected a tumor with smooth surface at the same localization. CT showed 40x14 mm size solid contrast enhancing mass which is containing air density on the bladder left lateral wall (Figure 1).

Colonoscopy demonstrated multiple diverticula orifices with inflamatory change on the mucosa. Exploration was planned to

confirm primer disease. We observed at the level of the inferior segment of the sigmoid colon strongly adherent to urinary bladder. After we subsequently performed partial cystectomy, partial colectomy and colostomy (Figure 2).

Pathological examination revealed no malignancy. It's reported as chronic inşammation in the suburothelial connective tissue and localised peritonitis due to perforation of diverticulum of sigmoid colon. Follow-up with CT scan 6 months postoperatively was normal and showed no evidence of recurrence.

Discussion

Inşammatory pseudotumor (IPT) of the genitourinary tract is a rare lesion (1) and first described by Roth (2) in 1980 in a female patient presenting with recurrent cystitis. Radiological imaging usually detect a bladder mass without metastasis (3,4). The etiology of this disease is not known. Lopez-Beltran et al. (5) have asserted that inflammatory pseudotumor is induced by proliferative cystitis because most reported cases showed

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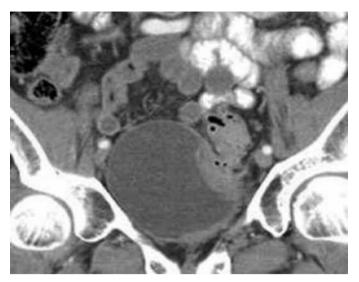


Figure 1. 40x14 mm size solid contrast enhancing mass which is containing air density on the bladder left lateral wall



Figure 2. Level of the inferior segment of the sigmoid colon strongly adherent to urinary bladder lateral wall

non-neoplastic proliferation of fibroblasts/myofibroblasts on a background of proliferating vessels. Interestingly, a diverticulum of the sigmoid colon was found in the middle of the pseudotumor in our case. In most cases, inflammatory pseudotumors are caused by chronic infection and/or inflammation of the bladder (3). In our case, probably that chronic inflammation due to perforation of the diverticulum might have induced the inflammatory pseudotumor of the bladder.

Hematuria is the most common presenting complaint, although dysuria, frequency, and suprapubic pain have also been reported (6).

Although IPT is benign nature tumor, treatment is very important. Possible pathologies must be revealed before

treatment because of proximity with sigmoid colon. Otherwise possible complications such as fistula may lead to sepsis. Transurethral resection or partial cystectomy has been reported as the treatment of choice. However, we suggest that transuretral resection should not be performed because of sepsis complication due to sigmoid colon fistula. In these cases we suggest that partial cystectomy is as optimal treatment with minimal morbidity. Complete local resection is sufficient for recurrence-free disease. Therefore should be avoided radical cystectomy IPT of urinary bladder due to diverticulitis of the sigmoid colon has been reported in the literature. It's thought recurrent inflammatory reaction stimulates undifferentiated stromal cells into forming granuloma. It's very difficult to discriminate between a true neoplasm and a postinflammatory pseudotumor. Open surgery should be performed instead of transurethral surgery because of complications in the treatment of inflammatory pseudotumor.

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