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The primary aim of *World Journal of Clinical Cases* (WJCC, *World J Clin Cases*) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

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Bladder stone due to late clip migration after prostatic urethral lift procedure: A case report

Ali Seydi Bozkurt, Ozgur Ekici, Ercüment Keskin, Fatih Kocoglu

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Abstract

BACKGROUND

Prostatic urethral lift (PUL) therapy is an alternative to minimally invasive and other surgeries in younger patients who want to preserve their sexual and ejaculatory functions, and in elderly male patients with benign prostatic hyperplasia who cannot be anesthetized because of the risk of anesthesia. The procedure can be performed as an outpatient and without anesthesia, and complications are few and temporary. In long-term follow-up, encrustations that require retreatment are rarely seen.

CASE SUMMARY

In our case, a 62-year-old prostate patient who had a PUL operation 8 years ago and had a stone on the PUL material near the bladder neck was treated. The patient's stone was removed by endoscopic cystolithotripsy using pneumatic fragmentation. Bipolar transurethral resection of the prostate was applied to the patient in the same session. After the patient's 7-year follow-up, the patient's complaints relapsed, and cystoscopy was performed again. In cystoscopy, stone formation adjacent to the wall was observed at the junction of the bladder neck to the left lateral wall. The stone was fragmented with a pneumatic lithotripter.

CONCLUSION

Placing clips too close to bladder neck in the PUL procedure may result in clip migration.

Key Words: Endoscopic cystolithotripsy; Transurethral resection-P; Urolift; Bladder Stone; Case report

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Core Tip: In the prostatic urethral lift procedure, it is important to avoid placing clip materials close to the bladder neck to avoid clip migration.

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INTRODUCTION

Benign prostatic hyperplasia affects millions of men worldwide. UroLift (Urolift®) device has recently been used in patients with prostatic lateral lobe hypertrophy with obstructive voiding symptoms who want to avoid sexual and ejaculatory dysfunction[1,2]. Prostatic urethral lift (PUL) is strongly recommended in patients with < 70 mL prostate and with no median lobe but who have lateral lobe hypertrophy with obstructive voiding symptoms and who want to protect from ejaculatory dysfunction[3].

Early complications of PUL include hematuria, dysuria, pelvic pain, urgency, incontinence and urinary tract infections. These complications usually resolve spontaneously within two weeks. In the literature, symptoms such as encrustation, development of stricture, and persistent dysuria and urgency due to incorrect placement of needles have been reported among the late complications[4]. Since the number of studies with long-term follow-up of patients is not sufficient, our information on late complications is limited.

In our study, we aimed to present a case that developed two bladder stones due to clip migration 1 years and 8 years later, which we followed for a long time after PUL was applied.

CASE PRESENTATION

Chief complaints

The patient was admitted to the outpatient clinic with dysuria and pollakiuria started 3 mo ago.

History of present illness

In our case, a 62-year-old prostate patient who had undergone PUL operation 8 years ago, had a stone in the PUL material near the bladder neck, and presented was treated.

History of past illness

In our case, a 62-year-old prostate patient who had undergone PUL operation 8 years ago, had a stone in the PUL material near the bladder neck, and presented was treated.

Physical examination

No feature was observed in the physical examination.

Laboratory examinations

Laboratory examinations reveal nothing abnormal.

Imaging examinations

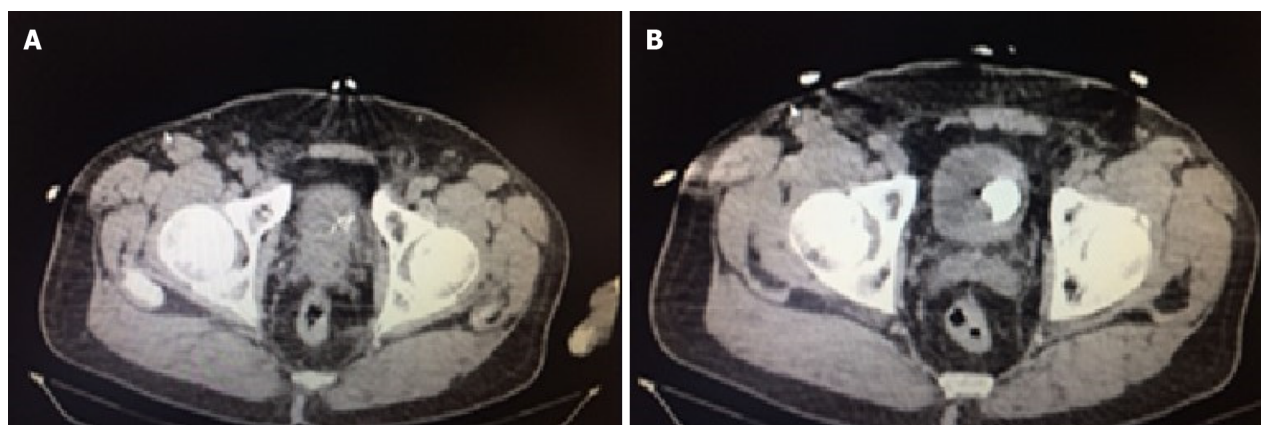
Calcification was detected in the prothatic urethra observed through ultrasound. As further investigation, computed tomography showed that stone was found to be obstructing the bladder at the bladder neck (Figure 1).

FINAL DIAGNOSIS

The final diagnosis was encrusted PUL clip.

TREATMENT

Cystoscopy was conducted. On cystoscopy, a stone was detected on the bladder neck associated with PUL material implanted on the left side prostate of the bladder neck (Figure 2). The patient's stone was cleaned by endoscopic cystolithotripsy applying fragmentation with pneumatic. The PUL material was located very close to the bladder neck. The



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Figure 1 Computed tomography image of bladder stone. A: Image of the clip; B: Image of the stone.



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Figure 2 Endoscopic image. A: Bladder stone; B and C: Clip.

patient was given the same session of bipolar transurethral resection (TUR) of prostate. A urethral catheter was inserted. In postoperative day 3 catheter was removed. Maximum flow rate was measured as 21 mL/sec and International Prostate Symptom Score was 8 after TUR.

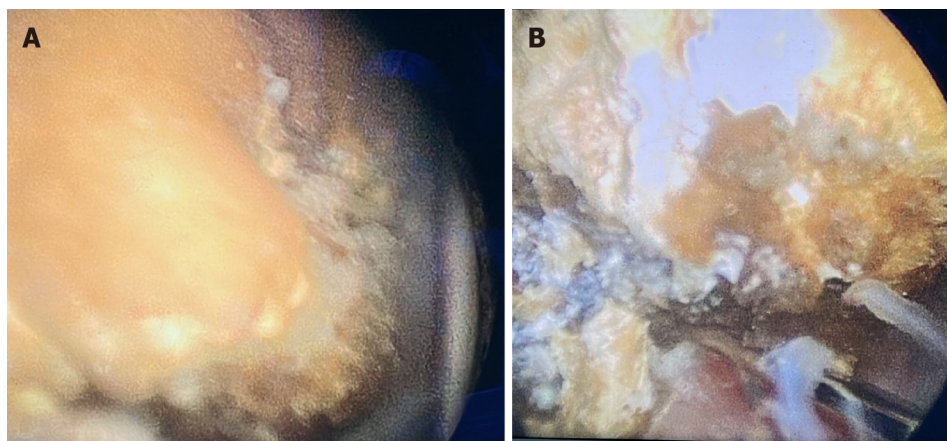
Cystoscopy was performed again when the patient's complaints started again after 7 years of follow-up. In the cystoscopy, a stone formation adjacent to the wall was observed at the junction of the left side wall of the bladder neck (Figure 3A). The stone was fragmented with pneumatic lithotripter. During fragmentation, a clip attached to the bladder wall was observed under the stone (Figure 3B). In Figure 4, the image of the clip is seen after the stone is completely broken. This clip was removed by performing a TUR to the bladder (Figure 5).

OUTCOME AND FOLLOW-UP

No incrustation was observed in the controls of the patient whose complaints improved.

DISCUSSION

PUL device is used in patients with prostatic lateral lobe hypertrophy with obstructive voiding symptoms who want to avoid sexual and ejaculatory dysfunction[1,2]. It is clear that urologists need to be ready to perform secondary procedures in the case of PUL failure, as the PUL procedure has increased popularity and 14% treatment failure rate, and it can create enuresis[5]. In our case, a stone was detected on the bladder neck associated with PUL material implanted on the left side prostate of the bladder neck. Stone was fragmented with pneumatic lithotripter and endoscopic cystolithotripsy was performed. Bipolar TUR (prostate) was applied in the same session. PUL material was located near the bladder neck. PUL material was found to result in stone formation if not properly placed laterally in prostatic urethra. In the post-PUL procedure, in order to prevent stone formation, it is important that it should be placed laterally away from the bladder neck[6]. In the case we presented, we think that the reason for the formation of the first stone was the placement of the clip close to the bladder, and the second time the reason for the formation of the stone was the migration of the clip outside the prostate to the bladder.



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Figure 3 Endoscopic image after bladder stone fragmentation. A: Before lithotripsy; B: After lithotripsy.



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Figure 4 Endoscopic image of the clip on the bladder wall.



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Figure 5 Excised image of the clip.

PUL complications are rare and usually temporary. Intraoperative complications include needle placement in the wrong place, needle breakage, *etc.* Postoperative complications are usually temporary symptoms such as dysuria, hematuria, urgency[7]. In their study, which included 206 patients with complications recorded according to the Clavien Dindo classification, Cantwell *et al*[8] they wrote that no class 4 and 5 complications were seen, and 2 patients had class 3 complications. Infective complications have also been reported among postoperative complications[9,10]. The known rates of encrustation and clip migration among the late complications seen in the present case were investigated in the L.I.F.T study, which included 131 patients in whom 642 implants were placed. According to the results, 27 (4%) implants migrated to the bladder and bladder stones occurred in 14 patients[11].

PUL is more suitable for two patient groups in daily practice. The first group is young patients who want to avoid retrograde ejaculation, and the second group is comorbid elderly patients with a high risk of anesthesia. Although PUL provides quick and easy symptomatic relief, recovery is not achieved in patients between 1.4% and 19%. In these patients, retreatment is required within an average of 12-24 mo. In these patients, the TUR prostatectomy procedure can be safely performed[12]. McAdams *et al*[13] they wrote that the holmium laser enucleation of the prostate (HOLEP) method can also be applied reliably when retreatment is required after PUL. In the patient we presented, we relieved the obstruction in the patient with TUR prostatectomy with the bipolar method after cystolithotripsy in our first intervention.

Pelvic hematoma cases associated with hematuria are the most common case reports about PUL in the literature[14]. Ewing *et al*[15] stated in their case report that they developed a pelvic hematoma measuring approximately 15 cm in diameter after PUL. This hematoma led to severe hemoglobin reduction (10 U erythrocyte suspension replacement) and acute renal failure requiring dialysis in the patient. This rare complication was attributed to anticoagulant use and prior radiotherapy for prostate cancer in this patient, according to the authors. Spradling *et al*[16] In the case report they published, they could not relieve massive bleeding after PUL with endourological interventions and stopped the bleeding with prostatic artery embolization. Similar to the case we presented, Kang[17] published the case of a 64-year-old male patient who had stone formation in the bladder neck after PUL applied 2 mo ago. They performed cystolithotripsy and HOLEP. The characteristic of the case we present is that the clip in the lumen migrates to the bladder after 1 year and the clip outside the prostate migrates to the bladder after 8 years. To avoid this complication, it is important not to place the implants close to the bladder neck.

CONCLUSION

When PUL is placed too close to the bladder neck, it can cause stone formation. Endoscopic cystolithotripsy and bipolar TUR (prostate) together with pneumatics are effective and safe procedures in the treatment of secondary stone development in PUL.

FOOTNOTES

Author contributions: Bozkurt AS, Ekici O, Keskin E, and Kocoglu F contributed equally to this work; Bozkurt AS, Ekici O, Keskin E, Kocoglu F designed the research study; Bozkurt AS, Ekici O performed the research; Keskin E, Kocoglu F contributed new reagents and analytic tools; Bozkurt AS, Ekici O analyzed the data and wrote the manuscript; All authors have read and approve the final manuscript.

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