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Case Report

# A rare case of Cowper's syringocele in an adult male: Clinical presentation and management



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#### الملخص

اشتكى رجل عمره ٢٥ عاما من ضعف تدفق البول مصحوبا بازدياد تواتر التبول لمدة ٦ أشهر. لم يكن الفحص السريري والتحاليل الأساسية جديرة بالملاحظة. أظهر الفحص التنظيري المرن للمثانة والإحليل والتصوير بالرنين المغناطيسي وجود قيلة كوبر النخاعية من النوع المغلق. تم استئصال القيلة باستخدام تقنية الليزر الجرابي عن طريق الإحليل من غير مضاعفات. اختفت أعراض المريض بعد الجراحة وبقى بلا أعراض لمدة ١٥ شهرا من المتابعة.

الكلمات المفتاحية: قيلة كوبر النخاعية؛ ضعف تدفق البول؛ منظار المثانة والإحليل المرن؛ تقنية الليزر الجرابي عن طريق الإحليل

#### Abstract

A 25-year-old male presented with a weak urine stream and increased urinary frequency for six months. Clinical examination and baseline investigations were unremarkable. Flexible cystourethroscopy and magnetic resonance imaging revealed the closed type of Cowper's syringocele. Transurethral laser marsupialization of the syringocele was carried out without adverse events. The patient's symptoms disappeared after surgery and he remained symptom-free through a 15-month period of follow-up.

**Keywords:** Cowper's syringocele; Flexible cystourethroscopy; Transurethral laser marsupialization; Weak urine stream

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#### Introduction

Cowper's (excretory bulbourethral) glands are a pair of pea-sized ducts that lie at the dorsal aspect of the membranous urethra, within the urogenital membrane. The secretions from both glands drain in the bulbous urethra through two 4-cm-long ducts. The secretions aid in lubrication and transportation of spermatozoa along the urethra during ejaculation. <sup>1,2</sup>

Cystic dilatation of the gland is referred to as Cowper's syringocele or ductectasia and is caused by distal duct obstruction in the paediatric age group.<sup>3</sup> To the author's knowledge, only eight adults with this condition have been reported in the literature [Table 1]. The clinical presentation, management and follow-up of a 25-year-old male patient with Cowper's syringocele are herein reported.

#### Case report

A 25-year-old male patient presented to the outpatient clinic with a weak urine stream and increased frequency for six months. Physical examination was unremarkable. Urine analysis, abdominal ultrasound and retrograde urethrogram were all normal. He did not improve on empirical antibiotic therapy. Office-based diagnostic flexible cystourethroscopy was performed under local anaesthesia. It showed cystic dilatation at the bulbous urethra. The cyst slightly pushed the posterior wall of the bulbous urethra in a forward direction. Further assessment by MRI T2 imaging revealed a homogeneous oval cystic swelling with a smooth wall and

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Authors	Type	Presentation	Diagnostic modality	Treatment
Richter et al., 1998 <sup>4</sup>	Open	Frequency, UTI	Retrograde urethrogram, endoscopy	Deroofing
	Open	Frequency, urgency, post-voiding dribbling	Retrograde urethrogram, endoscopy	Deroofing
Amakura et al., 2000 <sup>5</sup>	Open	Urethral discharge after perineal trauma	Retrograde urethrogram, endoscopy	Deroofing
Köksal at al., 2003 <sup>6</sup>	Open	Frequency, weak stream, retention of urine	Retrograde urethrogram, endoscopy	Deroofing
Volders et al., 2005 <sup>7</sup>	Closed	Weak stream, post-void dribbling, perineal discomfort, fullness	Retrograde urethrogram, ultrasound, MRI	Open surgery
Zugor et al., 2006 <sup>8</sup>	Open	Haematuria	Micturating cystourethrogram	Deroofing
Kumar et al., 2007 <sup>9</sup>	Open	Frequency, urgency, post-voiding dribbling	Retrograde urethrogram, endoscopy, ultrasound	Open surgery
Santin et al., 2009 <sup>10</sup>	Closed	Haematuria, difficulty in voiding	Endoscopy	Deroofing, then open surgery
This study	Closed	Weak stream, frequency	Retrograde urethrogram, endoscopy, MRI	Deroofing

high signal intensity [Figure 1]. These findings were consistent with the diagnosis of Cowper's syringocele. Transurethral holmium laser marsupialization of the syringocele was performed [Figure 2]. This was followed by complete recovery with immediate post-operative relief from urinary symptoms. The patient remained symptom-free during a 15-month follow-up period.

#### Discussion

Cystic dilatation of Cowper's gland, originally described in 1881, is known as Cowper's syringocele. It is rare in adults, and the aetiology is not fully understood.<sup>4</sup> It has been suggested that previous infection or trauma with obliteration of the gland's duct can be a possible etiologic factor.<sup>1</sup> Accumulation of mucus or even urine within an

obliterated dilated duct would exacerbate bacterial colonization and recurrent infection. 1,11

Cowper's syringocele is usually small and asymptomatic, but it becomes symptomatic when enlarged or complicated. Patients with open Cowper's syringocele usually present with storage urinary symptoms, whereas patients with the closed type present with voiding urinary symptoms. Sudden urethral discharge occurs if a closed syringocele ruptures. Other rare presenting symptoms include vague abdominal or perineal pain, incontinence, enuresis and haematuria. In this report, the patient had a closed-type syringocele that presented with storage symptoms. This is the third closed-type syringocele among the eight adult cases reported in the literature [Table 1].

Ultrasound has limited diagnostic value for the diagnosis of Cowper's syringocele because of inadequate tissue penetration. Retrograde urethrogram or micturating

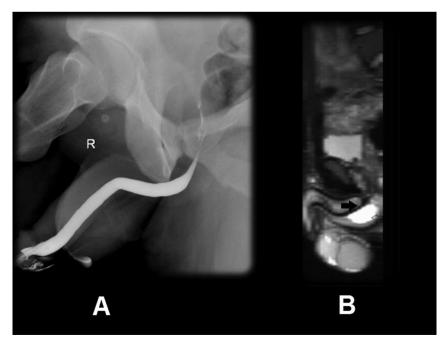


Figure 1: (A) Retrograde urethrogram was normal. (B) Reconstructive sagittal view of a T2-weighted MRI image revealed an oval-shaped, high-intensity cyst indicative of Cowper's syringocele (light arrow) at the posterior aspect of the bulbous urethra (dark arrow).

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