

Brunn's Cyst: A Rare Cause of Bladder Outlet Obstruction in a Young Man

Stephen Lalfakzuala Sailo,* Laltanpuii Sailo

A 27-year-old man presented with obstructive voiding symptoms for eight years. His American Urological Association (AUA) symptom score was 25 with bother score of 4. Physical examination was unremarkable. He had normal urinalysis, and urine culture was sterile. He had a peak urine flow rate of 10 mL/s in a voided volume of 174 mL. Bladder ultrasound showed a 1.4×1.2 cm cystic mass at the bladder neck (**Figure 1**) and an intravenous urography revealed bilateral hydronephrosis. Cystoscopic examination showed a normal urethra, a bulge at the bladder neck and upon retro-flexion, a large cystic mass was noted at the bladder neck between 7 and 12 o'clock position (**Figure 2**). Transurethral de-roofing and resection of the cystic mass was done using resection loop. The pathological examination showed features of Brunn's cyst (**Figure 3**). After the operation, the obstructive voiding symptoms subsided and he voided with a peak flow rate of 18 mL/s in a voided volume of 253 mL. Cystoscopy done three weeks after the operation revealed no residual lesion. Bladder outlet obstruction caused by Brunn's cyst has been reported previously.^(1,2) De-roofing and resection is curative. Brunn's cyst should be considered as one of the rare causes of bladder outlet obstruction.

REFERENCES

1. Franco I, Eshghi M, Schuttle H, Srinivasan K, Addonizio JC. Bladder neck obstruction secondary to Brunn's cyst. *J Urol*. 1988;139:126-7.
2. Grimsby GM, Tyson MD, Salevitz B, Smith ML, Castle EP. Bladder outlet obstruction secondary to a Brunn's cyst. *Curr Urol*. 2012;6:50-2.



Figure 1. Bladder ultrasound demonstrating a 1.4×1.2 cm cystic mass at the bladder neck.

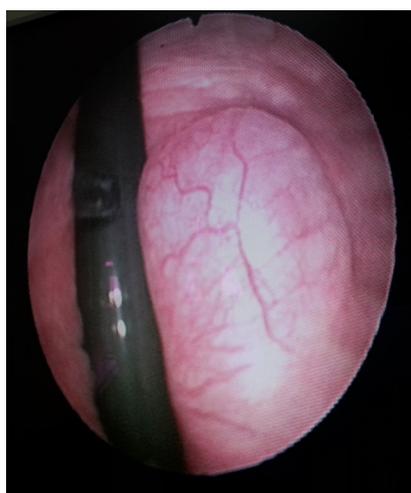


Figure 2. Cystoscopic examination demonstrating a large cystic mass at the bladder neck between 7 and 12 o'clock position.

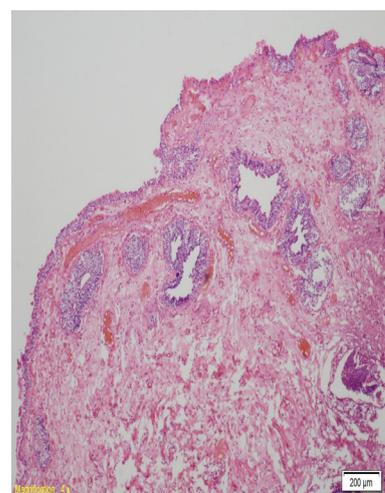


Figure 3. Histopathology demonstrates features of Brunn's cyst.

Department of Urology, North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), Shillong, Meghalaya, India.

*Correspondence: Department of Urology, North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), Shillong, Meghalaya, India.

Tel: +91 364 2538006. Fax: +91 364 2538010. E-mail: stephensailo@gmail.com.

Received April 2015 & Accepted September 2015