Ureterocele with impacted stone

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DESCRIPTION

A 24-year-old man presented with urinary frequency, urgency and post-void dribbling of 4 weeks duration. Patient had no history of haematuria, urinary retention, dysuria, graveluria, fever or flank pain. His past medical history and family history were insignificant. General physical examination and systemic examination were normal. Ultrasound of the abdomen showed normal bilateral kidneys and 3×2 cm mobile echogenic shadow in base of the urinary bladder suggestive of bladder stone. X-ray of kidney, ureter and bladder confirmed a radio-opaque hyperdense stone in the pelvis (figure 1). Routine work up including haemogram, renal function and serum electrolytes were within normal limits. Urinalysis revealed six to eight pus cells and culture was sterile. Uroflowmetry showed Q max of 12.2 mL/sec for voided volume of 260 mL. Patient was counselled for endoscopic cystolithotripsy under regional anaesthesia. On endoscopy, urinary bladder showed no evidence of stone. To our surprise, left ureteric orifice was dilated and seen as an outpouching inside the urinary bladder with stone projecting from the lumen suggestive of ureterocele (figure 2A). Using 26 French resectoscope and Collins knife, inverted U shaped incision was given and stone extracted into the urinary bladder (figure 2B). Stone was fragmented with holmium laser (365-micron fibre, Energy – 1 Joule, Frequency – 15 hertz/sec) and fragments were removed with Ellik evacuator. The ureteric orifice was widely open and showed no residual stone. A 14 French Foley catheter was placed. Postoperative period was uneventful and catheter was removed after 2 days. On follow-up, micturating cystogram showed grade 4 vesicoureteric reflux (figure 3). Patient is asymptomatic and urine culture is sterile at 1-year follow-up.

Contributors

KMP and PS collected data and drafted the initial manuscript, SM collected images and edited them, KMP revised.

Patient’s perspective

I am very thankful to whole team of doctors and hospital staff for appropriate intervention and management of my disease.

Learning points

- Ureterocele with stone impacted at distal end may mimic as urinary bladder stone.
- Ultrasound and plain X-ray of the pelvis can be deceptive. CT is essential before surgical intervention to confirm the diagnosis and rule out any anomalies.
- Correct diagnosis is indispensable to prognosticate the patient about the disease and its sequelae.
Images in...

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