

Urethral diverticulum presenting as a chronic urinary leak for 10 years

Thaneemalai J¹, Muhilan P²

¹Consultant Obstetrician & Gynaecologist, Thomson Hospital, Kota Damansara, Selangor, Malaysia, ²Consultant Urologist, Thomson Hospital, Kota Damansara, Selangor, Malaysia

ABSTRACT

Objective: Case report – Urethral diverticulum presenting as a chronic urinary leak for 10 years. **Case Description:** A 44-year-old woman came to our hospital with small amount of urinary leak, required using pad for 10 years. She denied other lower urinary tract symptoms and previous pelvic trauma or surgeries. On examination, there was a swelling measured 3x3 cm at left anterior vaginal wall over distal third of urethra and a leak of urine, the fistula site was not demonstrable. Urinalysis showed negative findings. MRI pelvis showed multiloculated urethral cyst, cystogram and urethrogram confirmed urethral diverticulum below the bladder neck. A complete urethral diverticulectomy (horseshoe shaped) was performed under general anaesthesia after instilling methylene blue dye into the bladder; following which bladder and distal third of urethra was repaired. Histopathological examination confirmed the diagnosis of benign urethral diverticulum with metaplastic changes. Bladder catheter was retained for two weeks, subsequent cystogram revealed no leakage of urine. Six months later, she developed urethral stricture which required dilatation under local anaesthesia and now she remain well without any further leakage of urine. The video consisting of images and operative surgery will be shown. **Discussion:** In women with leakage of urine, urogynaecological evaluation including detailed clinical history, physical examination and further image studies investigating lower urinary tract is required for diagnosing rare conditions like urethral diverticulum before embarking on a corrective surgery.