ABSTRACT: Leiomyoma in urethra is of rare occurrence. Leiomyoma is the most expected common soft tissue tumour of the urethra. Patient presented with a pedunculated polypoidal growth over the right lateral wall of the urethra which was clinically diagnosed as urethral polyp, turned out to be leiomyoma in histopathology. Urethral leiomyomas are benign lesions arising from the smooth muscle of the urethra. The tumour in women often appears during the reproductive age (from menarche to menopause); the mean age of the appearance is around 41 years.

INTRODUCTION: Even though Leiomyoma is the most expected common soft tissue tumour of the urethra, approximately 40 cases in females and 3 cases in males have been reported in literature till date. It may also involve the paraurethral soft tissue. The size of this tumour ranges from 1 to 40 cm. It may present as an asymptomatic mass or with dysuria and urinary obstruction.

KEYWORDS: Urethra, Leiomyoma, Right lateral urethral wall.

CASE HISTORY: A 35 years old female came to outpatient department with the complaints of swelling and pain over the urethra and difficulty in micturition for the past 2 months.

On examination there was a solitary polypoidal mass present over the right lateral wall of urethra measuring about 3 x 2cms which was not tender. Basic investigations were done and were found to be within normal limits. Ultrasound abdomen was done and it did not reveal any pathology.

A clinical diagnosis of urethral polyp was made and excision biopsy was done for further evaluation. The macroscopic description of the mass was a single greyish coloured soft tissue piece measuring 2.5 x 1.5cm (Fig. 1). Cut section revealed grey white solid area with whorled appearance (Fig. 2). The microscopic picture revealed a polypoid tissue which was well circumscribed (Fig. 3) and composed of benign elongated spindle shaped smooth muscle cells (Fig. 5) distributed as sweeping interlacing bundles with areas of hyalinization (Fig. 7, 8). The tumour mass was lined by urothelial tissue which was markedly oedematous with evidence of ulceration and formation of vascular granulation tissue (Fig. 6). The sub urothelial tissue was infiltrated with inflammatory cells predominantly composed of lymphocytes (Fig. 4).

Histological features were consistent with the diagnosis of a Leiomyoma.

DISCUSSION: Leiomyoma is a benign neoplasm of the soft tissue, commonly affecting genitourinary and gastrointestinal tract. Leiomyoma is most commonly seen in the uterus. In the urinary tract, kidney and bladder are the most common sites of this tumour. However, urethral leiomyomas are very rare. They usually arise from the posterior wall and proximal segment of the urethra with preponderance for women in the reproductive age group.

Urethral leiomyomas are benign lesions arising from the smooth muscle of the urethra. They present with symptoms of repeated lower urinary tract infections and voiding difficulties.
The tumour often appears during the woman’s reproductive age (from menarche to menopause); the mean age of the appearance is around 41 years. Its origin is yet unknown.\textsuperscript{8,9} It is known that ovarian hormones favour its development, but it is difficult to say how exactly these hormones affect the development of the tumour, as there are documented cases even in postmenopausal women.\textsuperscript{10}

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**REFERENCES:**


**EQUIPMENT USED:**

Nikon Coolpix 8400.
X - denotes the power of the objective.
Stain used – H & E.
MACROSCOPIC PICTURES:

Single greyish coloured soft tissue. Cut section revealed grey white solid area with whorled appearance.

Tumour composed of benign spindle. Area of ulceration beneath which shaped smooth muscle cells vascular granulation tissue is noticed. Deeper to it, Leiomyoma is seen.
Spindle shaped cells arranged as sweeping interlacing bundles with areas of hyalinization.

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