LEIOMYOMA OF URINARY BALDDER

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ABSTRACT
Most (90%) bladder tumors are derived from urothelium. Benign mesenchymal tumors are rare comprising of 1-5% of all bladder tumors (McLucas et al., 1985). Leiomyoma being 0.43% of all bladder tumors is the most common benign mesenchymal neoplasm. To our knowledge only few cases of this kind have been reported (Park et al., 2010). We present a case of leiomyoma of bladder presenting with frequency of micturition and urgency since last one year.

Keywords: Bladder Tumor, Leiomyoma

INTRODUCTION
Mesenchymal tumors of the urinary bladder namely leiomyoma are relatively rare and heterogenous group of neoplasm arising from smooth muscle normally found in urinary bladder and constitute 1-5% of all bladder tumors (McLucas et al., 1985). About 250 cases are reported in scientific literature. Genitourinary leiomyomata may arise in any anatomic location containing smooth muscle (Brande et al., 1985).

CASES
A 62 yr old male presented with frequency of micturition and urgency since last one year. Ultrasound revealed – Mass at right lateral wall.
CT revealed – Bladder mass at vesico uretric junction.
Cystoscopy showed – solid nodular lesion at right lateral wall near to right ureteric opening.
Bladder tumor was resected through transurethral resection hence gross examination revealed bladder chips. Microscopic examination of several H and E stained sections reveal interlacing fascicles of whorled smooth muscle cells without pleomorphism and mitotic figure. Immunostains for actin-smooth-muscle (SMA) were performed using avidin biotin -peroxidase complex method, the tumor cells were positive for smooth muscle actin.

HandE Stained section: Interlacing fascicles of smooth muscle cells (100x)
RESULTS AND DISCUSSION
Leiomyoma accounts for less than 0.43% of all bladder tumors (Peterson, 1992). About 250 cases of leiomyoma of the bladder have been previously reported in scientific literature. The incidence of leiomyoma of bladder is approximately three times higher in women than in men (Brande et al., 1985). But in our case patient is a male. Typically it occurs in fourth and fifth decades of life, but our patient is 62 yrs of age.

REFERENCES