Isolated solid lesions in the prostate are rare in young men and pose a diagnostic and therapeutic dilemma. Management should be radical enough to prevent recurrences if it is to be a neoplasm, while it should not entail over-treatment causing functional derangements like urinary incontinence, retrograde ejaculation and erectile dysfunction.

A previously healthy 35-year old man with slow urinary stream was found to have an asymmetrically enlarged left prostatic lobe which was firm and having a smooth surface. His serum PSA was 1.1 ng/ml. Transrectal ultrasound scan (TRUS) revealed a mass in the left prostatic lobe containing solid and cystic areas. MRI scan showed a well-defined solid lesion with multiple cystic areas in the left lobe of prostate (Figure 1). It was low in signal intensity in T1W images and showed heterogenous signal intensity in T2W images. Lesion was surrounded by a hypointense halo with no evidence of infiltration. TRUS guided prostate biopsy revealed a benign spindle cell tumour. Since the lesion showed benign features both in MRI and biopsy and considering his age, transurethral resection of the mass was done rather than a more radical excision.

The histology of the resected tissue showed cytologically bland spindle cells arranged in interlacing fascicles in a myxoid stroma infiltrated by lymphocytes, plasma cells, neutrophils and mast cells. There were no glandular tissues seen. Immunohistochemical staining showed desmin and SMA positivity and CD34 negativity confirming a diagnosis of leiomyoma of prostate (Figure 2).

Prostatic leiomyoma is a rare benign smooth muscle tumour known to occur in older patients [1]. The reported cases so far have an average age around 60 years and this patient is the youngest to have a leiomyoma indicating its possibility even in thirties [1-4]. It should be differentiated from nodular leiomyomatous stromal hyperplasia and...
leiomyosarcoma [2]. Leiomyoma is devoid of glandular tissue and has a capsule when compared to nodular leiomyomatous stromal hyperplasia which occurs in advanced benign prostatic hyperplasia. Leiomyoma can be differentiated from leiomyosarcoma, by its low cellularity, circumscription and lack of cytological atypia and mitosis. Serum PSA has been normal in all patients with leiomyoma reported so far similar to this patient.

Leiomyoma shows a homogenous sign after gadolinium administration in MRI [3]. Images can be diverse related to the amount of degeneration within the lesion. Immunohistocemistry confirms the diagnosis as leiomyoma is positive for desmin and actin while negative for CD 34, CD 117, S 100 and cytokeratin [3,4]. Presence of multinucleate giant cells with vacuoles constitute atypical cells [2]. The treatment offered in previous cases include transurethral resection, open retropubic prostatectomy, radical prostatectomy and even cystoprostatectomy with ileal conduit formation [1-4]. Although most authors worry about sarcomatous transformation such an eventuality has not been reported even with cases of leiomyomata with atypia [1].

**Conflict of interests**
Authors declare that there are no conflict of interests.

**References**