

CASE 069

AUTHOR: Dr Samriti Arora, Dr Ravi Kumar Wategaonkar, Dr Sambit Mohanty

ACKNOWLEDGEMENT: Devender Kumar, Vijender Bhandari, Munmun Bhattacharya for technical support.

CASE HISTORY:

A 59-year male presented with prostatic lesion.

CASE HISTORY AND IMAGING PROFILE:

A 59-year-old male presented with urinary retention. On PET scan, there was diffuse prostatic enlargement with nodularity (Figure 1). Serum prostate-specific antigen was within normal limits. Transurethral resection of prostate was performed.

PATHOLOGICAL PROFILE:

On microscopy, there was an encapsulated and fairly circumscribed cellular spindle cell tumor composed of ovoid to spindle cells arranged in a haphazard pattern. The cells had distinct cell borders. Background showed hyalinized to collagenous stroma with scattered dilated staghorn-type vasculature. Mitotic rate was 1/10hpf. No cytologic atypia or necrosis was identified (Figure 2).

A battery of immune stains performed showed STAT6+/SMA+/CD34+/CALDESMON+/CK-/S100-/Desmin-/NKX3.1-/AR-phenotype (Figures 3a to 3d). The Ki-67 proliferation index was 5% (Fig 3e). Constellation of histomorphologic features and immunohistochemical profile supported the diagnosis of a solitary fibrous tumor of the prostate gland.