

Teaching Case 11/5/2018

Prostate Disease Focus Panel

Society of Abdominal Radiology

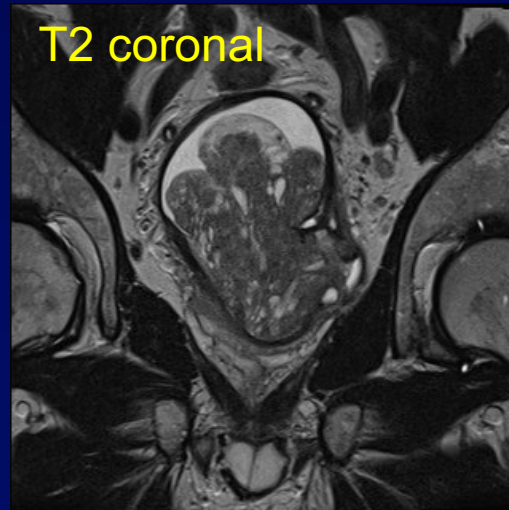
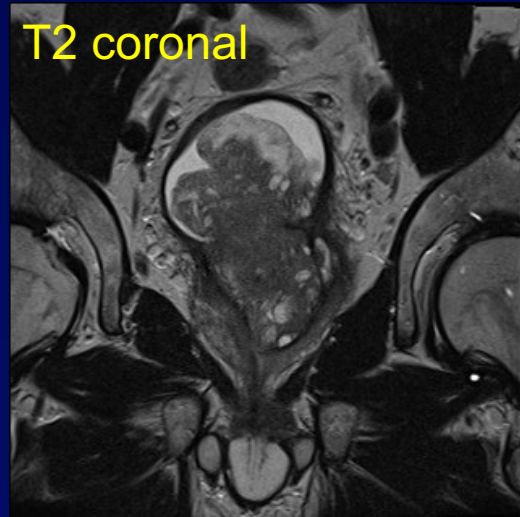
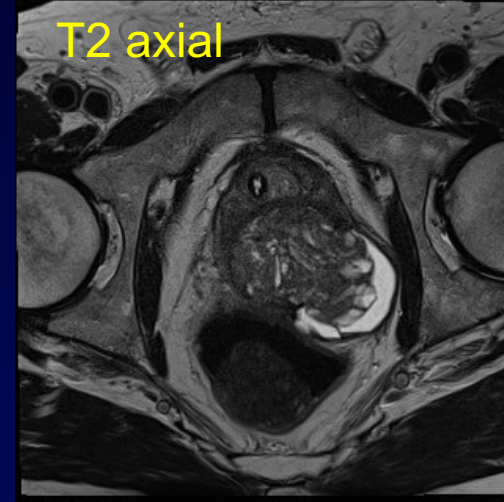
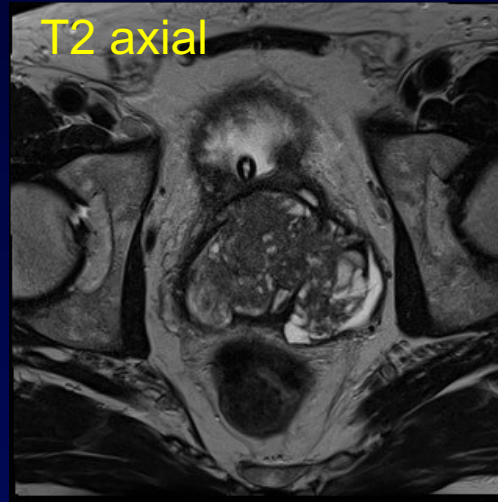
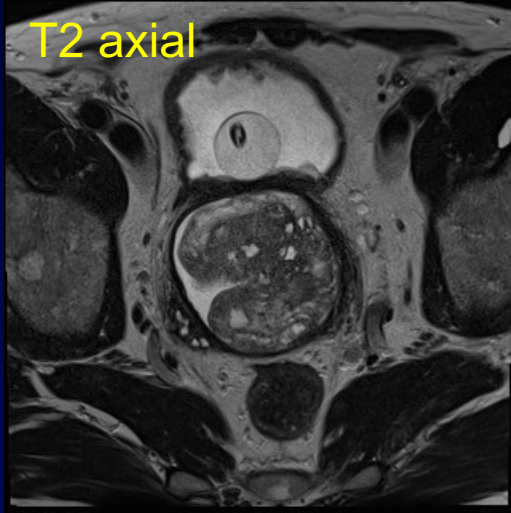
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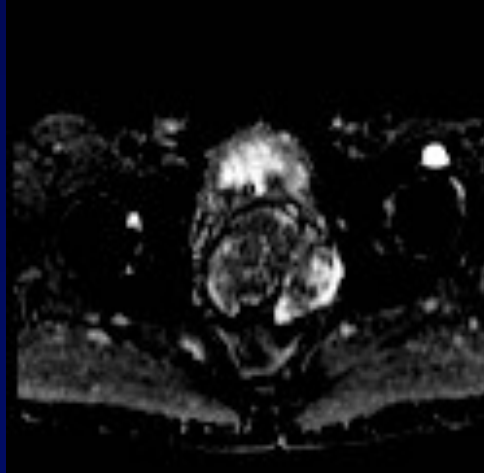
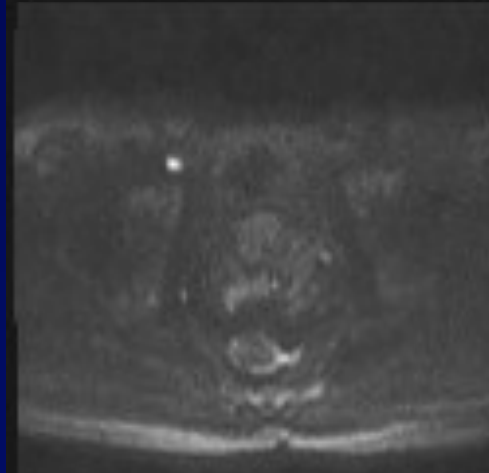
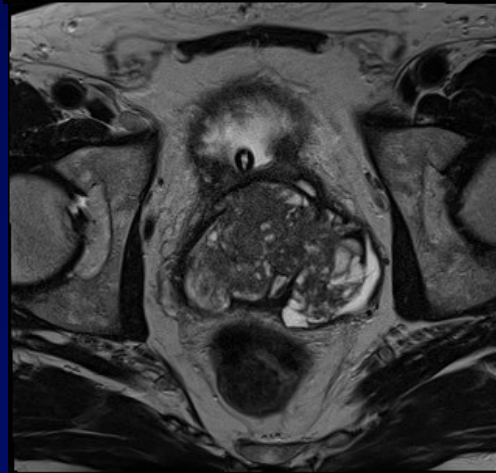
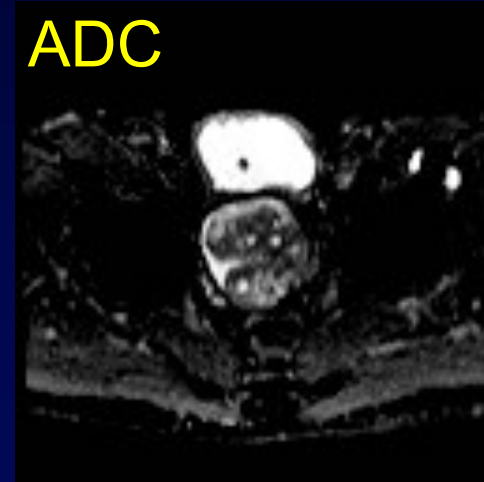
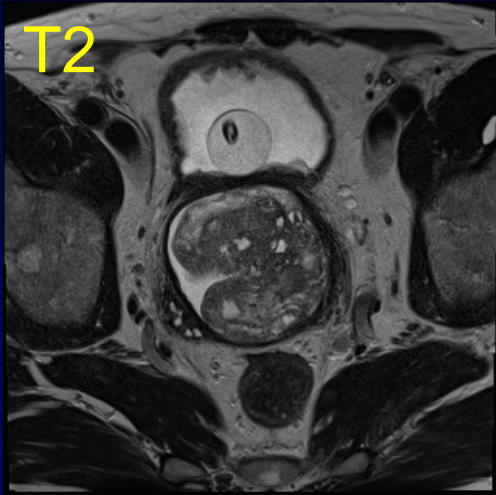
- 69 year old man
- PSA 120 ng/ml
- Urinary retention

69 year old man. PSA 120 ng/ml



215 cc prostate gland with enlarged transition zone compressing the peripheral zone mainly at the base and midgland levels.

69 year old man. PSA 120 ng/ml



Heterogeneous transition zone containing T2 hyperintense cystic areas and T2 hypointense areas in keeping with stromal tissue.

- Patient underwent systematic biopsy
- The biopsy results revealed stromal tumor of unknown malignant potential (STUMP), mixed subtype of hypercellular and degenerative atypia

STUMP

- Rare atypical stromal proliferation, distinct from prostate sarcoma
- Can affect PZ or TZ or whole gland
- Common symptoms are lower urinary tract obstruction, elevated PSA, hematuria
- Clinical course is unpredictable
- There are 4 subtypes: degenerative atypia, hypercellular, mixed and phyllodes type.

Herawi M, Epstein JI. Specialized stromal tumors of the prostate: a clinicopathologic study of 50 cases. Am J Surg Pathol 2006;Jun 30(6):694-704.

STUMP: MRI Features

- Heterogeneous on T2 with hyperintensity/cystic areas and T2 low signal areas/bands
- Can resemble cystadenoma, mucinous adenocarcinoma, sarcoma, cystic BPH