

SAR/DFP Prostate Case submission

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Clinical History

- 74 yr. old male: Low risk prostate cancer on surveillance

- PSA

10/17: 9.9 ng/mL

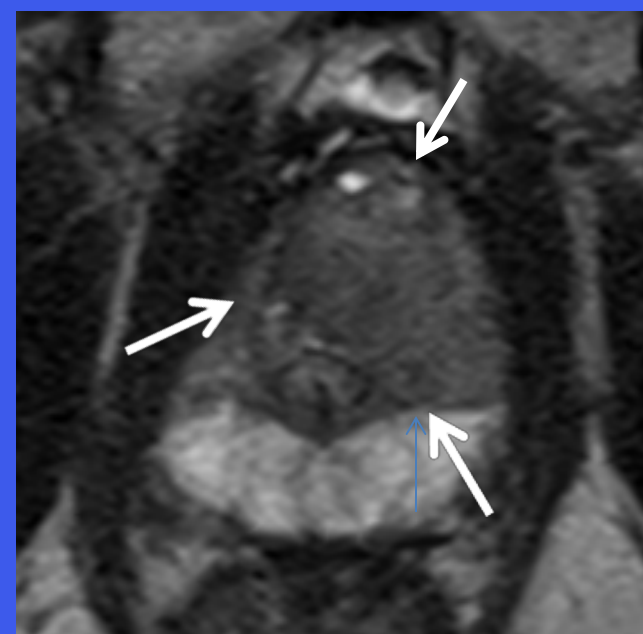
1/18: 8.8 ng/mL

Random biopsy performed outside institution

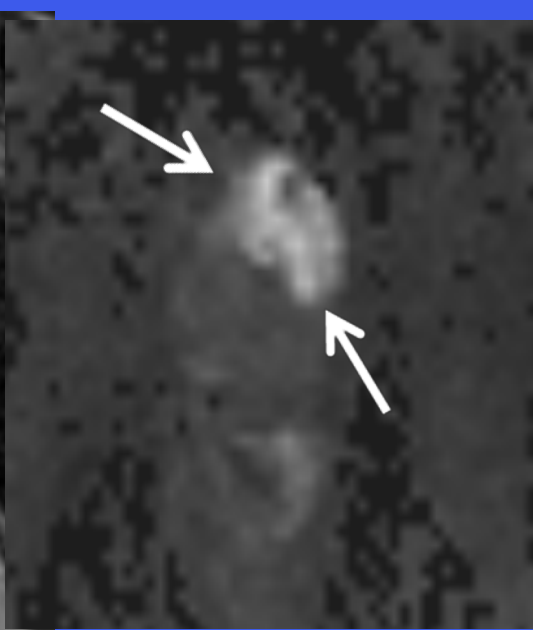
1/18 cores Gleason 3+3

5/18: 11.6 ng/mL

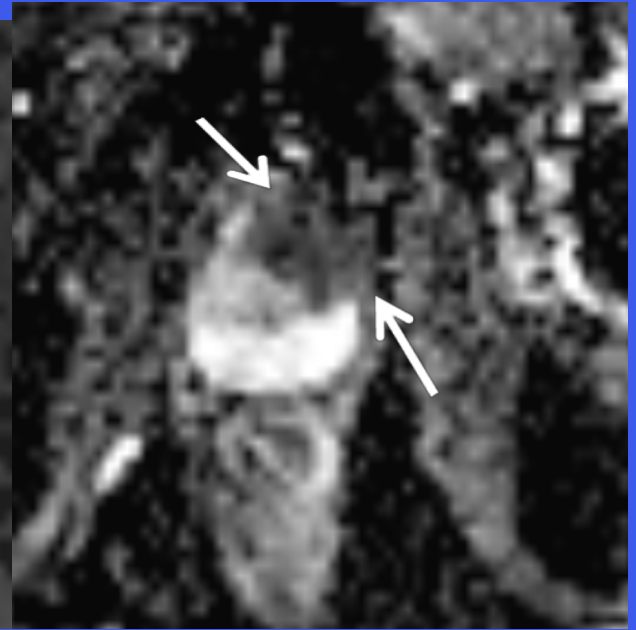
MRI Pelvis obtained 8/18



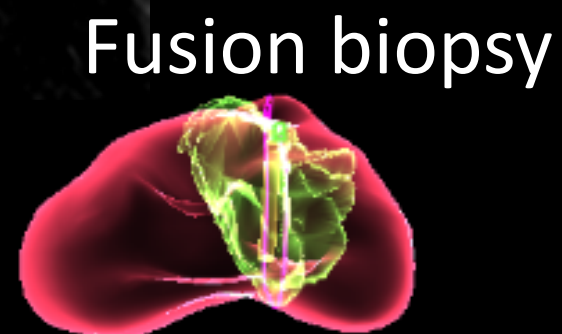
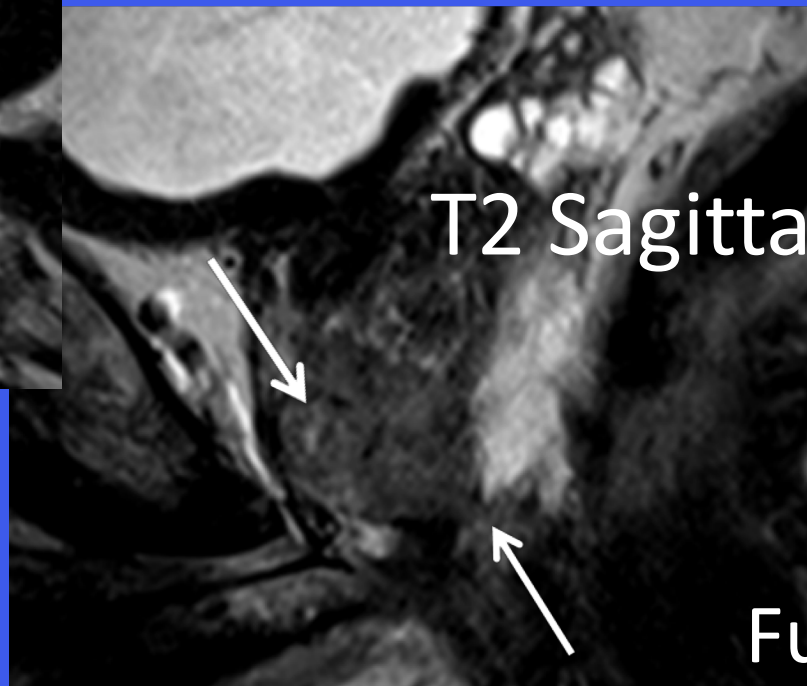
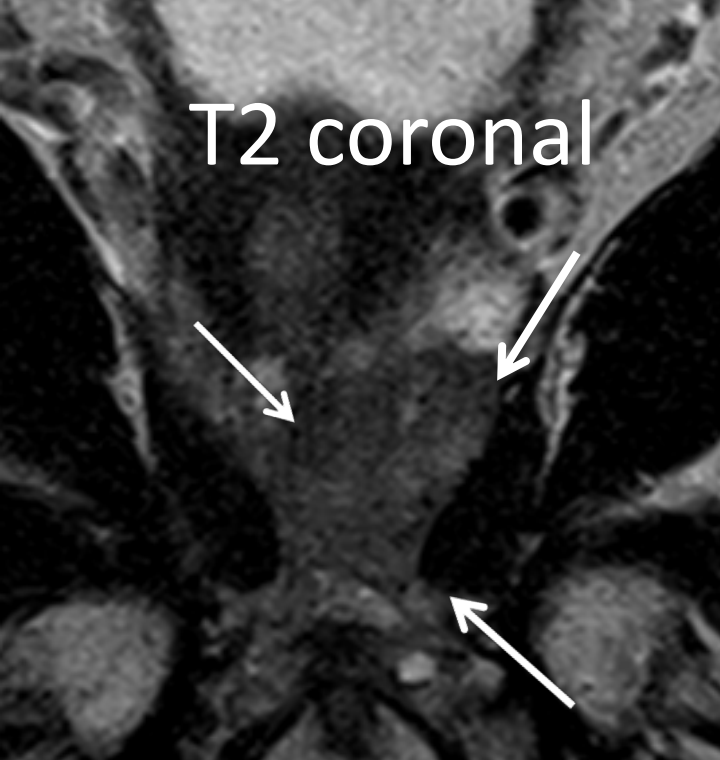
T2



b=1400



ADC



MRI interpretation

- Pi-Rads 5 involving left transitional zone, and peripheral zone

– T2:

5	Same as 4, but ≥ 1.5 cm in greatest dimension or definite extraprostatic extension/invasive behavior
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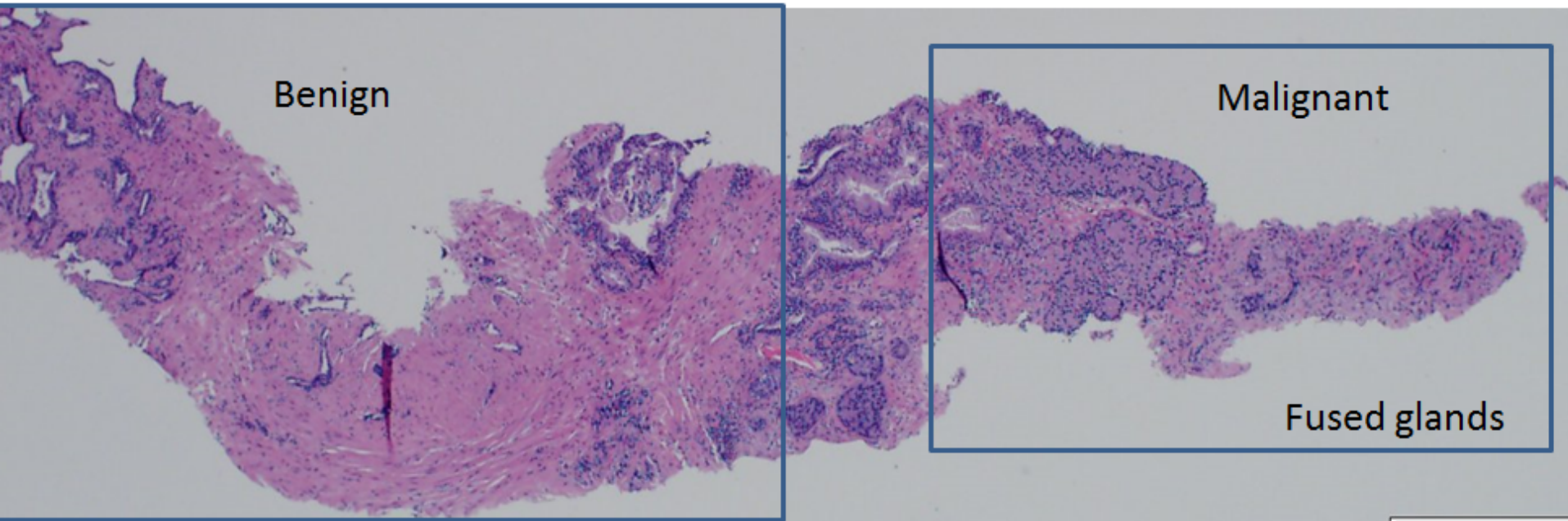
– DWI

4	Focal markedly hypointense on ADC and markedly hyperintense on high b-value DWI; < 1.5 cm in greatest dimension
5	Same as 4 but ≥ 1.5 cm in greatest dimension or definite extraprostatic extension/invasive behavior

- Fusion biopsy performed

Left transitional zone target lesion

Gleason 8(4+4)



Pathology

- 13 cores obtained
 - Right lateral apex Gleason 3+3=6
 - Left lateral base: Gleason 3+3=6 perineural invasion
 - Left lateral apex: Gleason 3+3=6 perineural invasion
 - Left medial apex: Gleason 4+4=8
 - Left transitional zone(targeted lesion)Gleason 4+4=8
 - AJCC 8 th ed Stage III C
- Patient elected to undergo intensity modulated radiation therapy

Comments

- Nice example of transitional zone tumor which was either missed or under sampled during initial biopsy in 2016
- Highlights the importance of the MRI exam