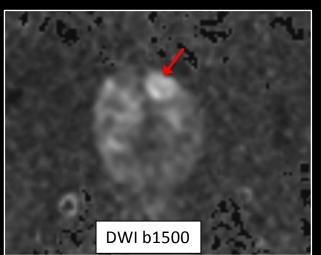
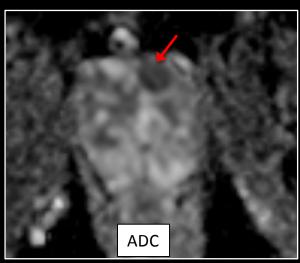
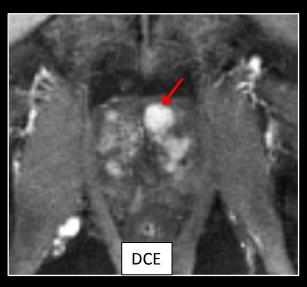


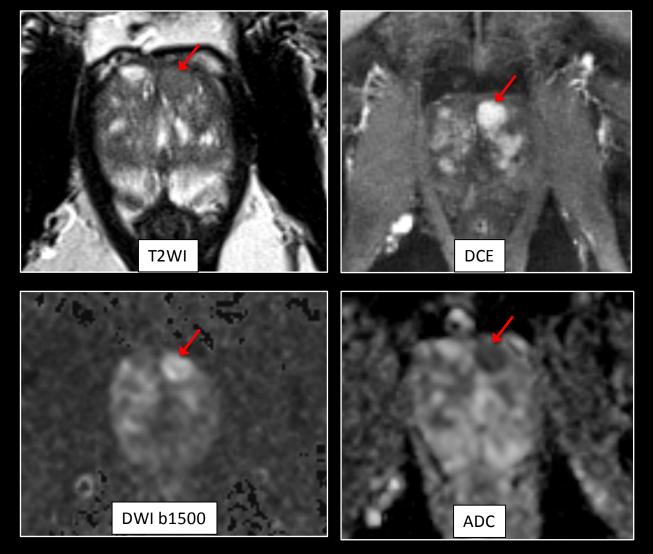
- T2WI shows a left anterior TZ lesion with homogeneous mildly decreased T2 signal.
- While TZ tumors exhibit decreased T2 signal, this lesion has a round shape and thin T2-hypointense capsule visible along its posterior aspect (dashed arrow), features characteristic of stromal BPH nodules.







- The lesion also showed increased signal on high bvalue DWI, decreased ADC, and increased vascularity on DCE.
- However, all of these features overlap between TZ tumors and BPH nodules.



- The lesion was assessed using PI-RADS V2 as follows:
- T2WI: Score of 2 given circumscribed margins with partial encapsulation; score of 3 in TZ requires "obscured margins"
- DWI: Score of 3, given "mild-to-moderate" signal changes on DWI and ADC; score of 4 required "marked" signal changes
- DCE: (+) given corresponding early enhancement
- Overall category: 2
 - T2WI serves as the dominant sequence in TZ

- MRI/ultrasound fusion-targeted biopsy demonstrated the left anterior TZ lesion to be benign.
- Concurrently performed systematic cores were benign as well.
- Teaching points:
 - Lesion shape and margins are important for differentiating TZ tumors and stromal BPH.
 - Stromal BPH nodules often exhibit restricted diffusion and hypervascularity
 - T2WI is the dominant sequence for determining the overall PI-RADS category for TZ lesions.