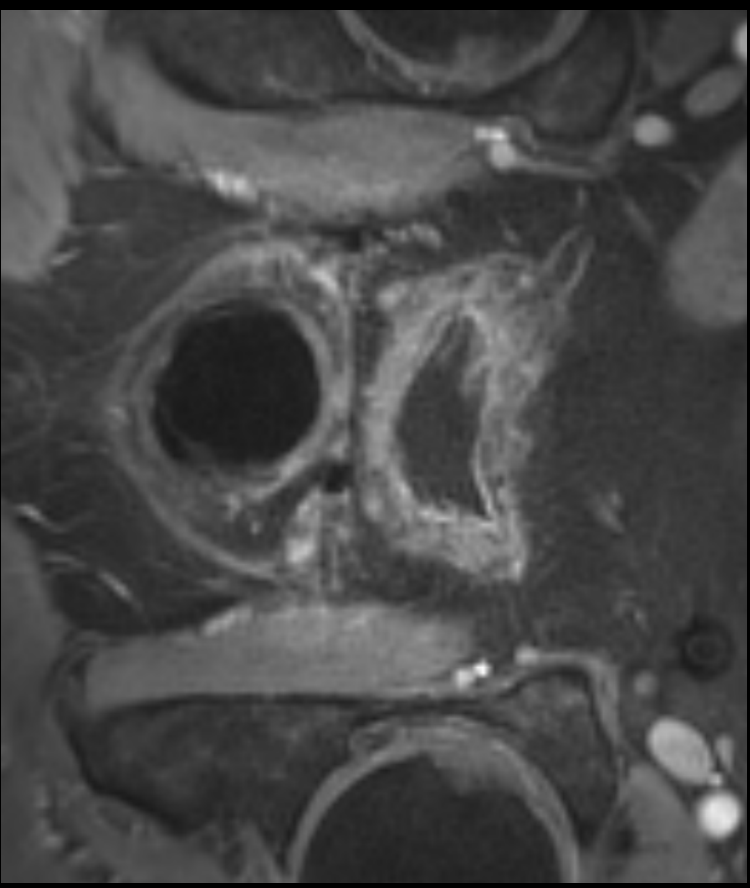
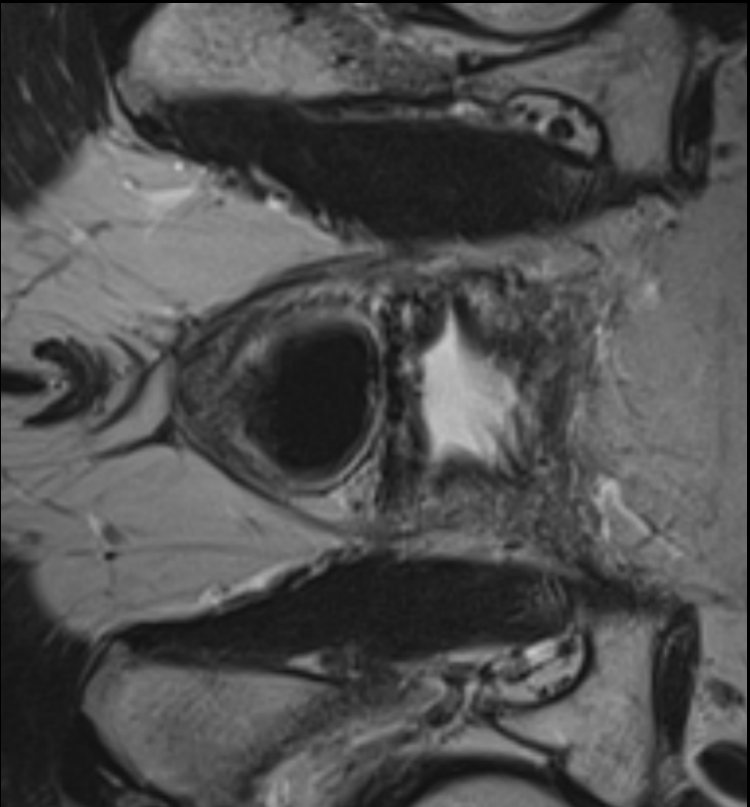


# Prostate Cancer DFP Online Teaching Case

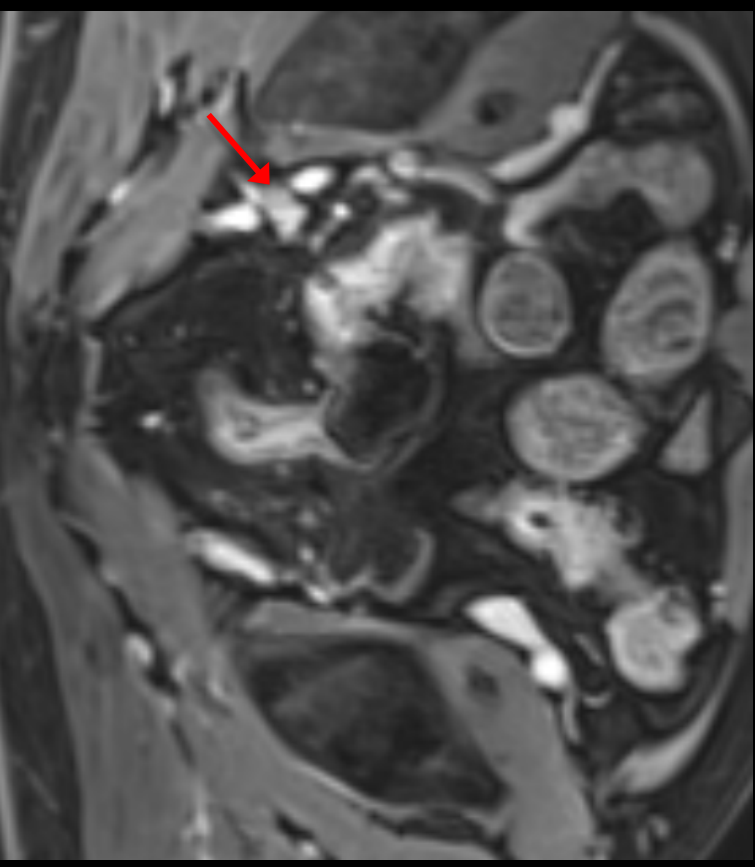
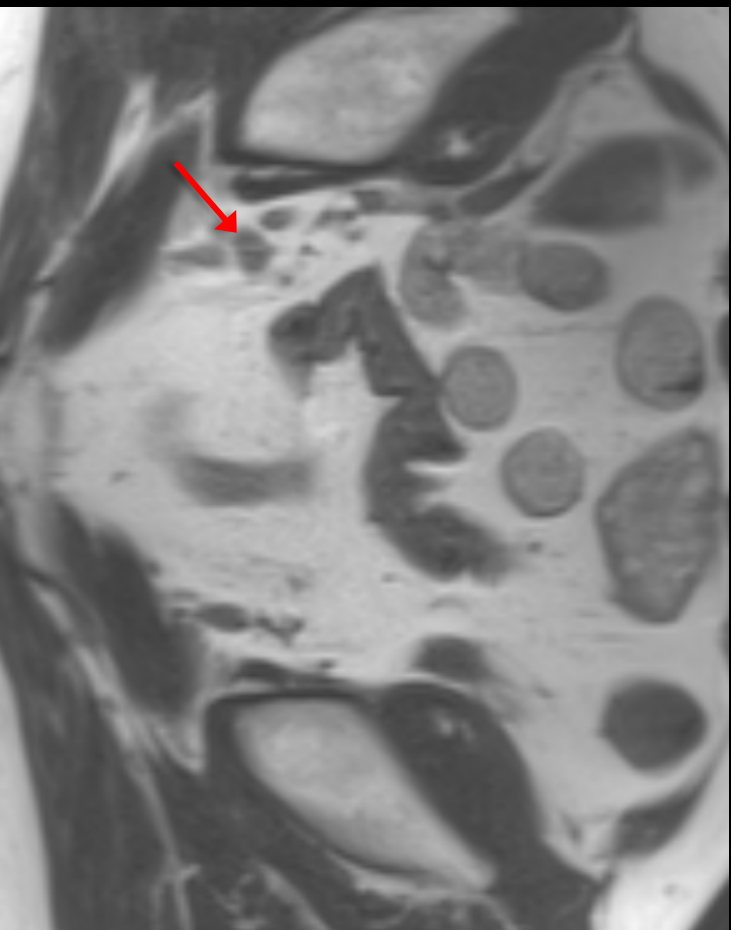
Andrew Rosenkrantz  
NYU Langone Health

## History

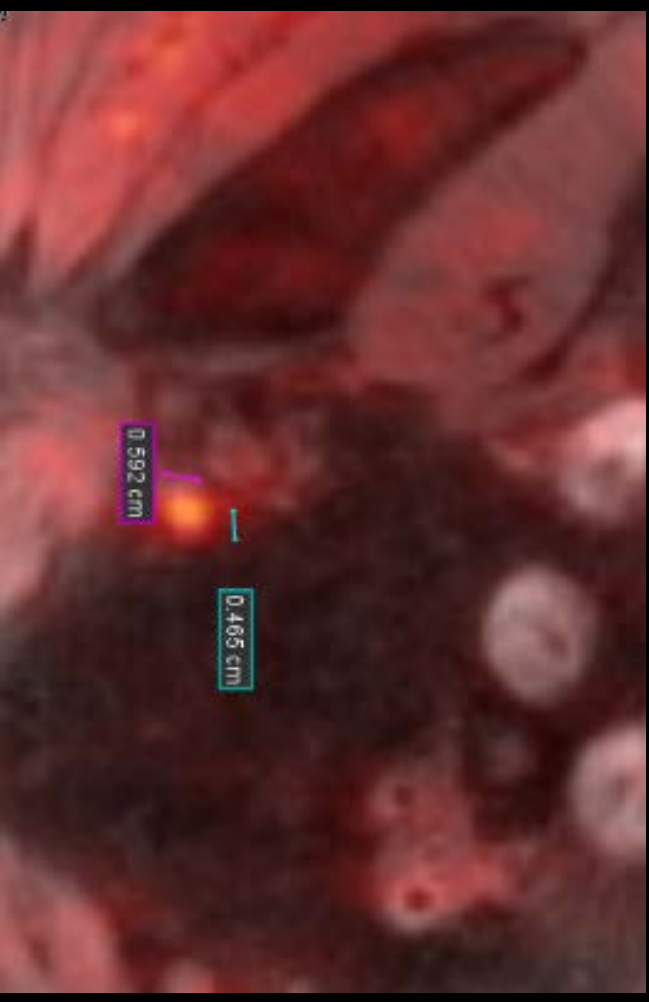
- 73 year-old male with history of Gleason score 4+4 prostate cancer
- Status post radical prostatectomy and adjuvant radiation 4 years prior.
- Rising PSA (now 2.1)
- Patient underwent PET/MRI using Axumin



No abnormality in prostatectomy bed



Mildly prominent internal iliac node is present, though may be overlooked due to nearby vessels and bowel loops, and is equivocal on MRI alone.



Axumin PET (performed as part of simultaneous PET/MRI) demonstrated focal increased activity in the node (SUV 7.9).

# Summary

- At pelvic lymph node dissection, the PET-avid node was found to be metastatic. Other resected right pelvic lymph nodes were benign.
- Very high specificity of Axumin PET for metastatic nodes.
- In one study of 28 high-risk prostate cancer patients undergoing Axumin PET/MRI before surgery, patient- and region-based sensitivity and specificity for pelvic nodal metastases on PET were 40%/100% and 30%/100%.
  - Senaes KM et al. Eur Radiol 2018 [Epub ahead of print]