Multiparametric endorectal MRI of mucin producing urothelial adenocarcinoma of the prostatic urethra

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Unusual history and MRI

66 year old man with blood and mucus in urine – PSA of 2.1
Cystoscopy demonstrated apparent urethral mass with biopsy showing “adenocarcinoma in situ with mucinous features”

T2 images demonstrates a hyperintense cystic mass (yellow arrows) in the peripheral zone of the left prostatic apex with extension (white arrows) into the prostatic urethra
No restricted diffusion or early enhancement (blue arrows)
Radical prostatectomy demonstrated mucin producing urothelial adenocarcinoma in situ of arising from the prostatic urethra:
- Peripheral zone abnormality due to mucin distended glands

Rare entity – less than 20 reported cases – MRI findings not previously described:
- Not be confused with primary mucinous prostatic adenocarcinoma

Zhang L, Zhang L, Chen M, Fang Q. Incidental discovery of mucinous adenocarcinoma of the prostate following transurethral resection of the prostate: A report of two cases and a literature review..Mol Clin Oncol. 2018; 9: 432-436