Unilateral Seminal Vesicle Agenesis

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69 year-old-male
serum PSA=8ng/ml

Intraprostatic MRI Findings:
There is a mostly encapsulated hypointense nodule ("atypical nodule") in the left apical-mid anterior transition zone.

- T2W PI-RADS category=2
- DW MRI PI-RADS category=4
- DCE MRI PI-RADS category=positive (+)
- Overall PI-RADS category=3/5

Note: this lesion has not been biopsied yet
Seminal Vesicle Findings:
- Right side: unremarkable
- Left side: seminal vesicles are not seen
  - Unilateral left seminal vesicle agenesis
69 year-old-male
serum PSA=8ng/ml

Axial T1W post-contrast abdomen MRI:

• Right Kidney: unremarkable
• Left Kidney: ectopic location in the pelvis
Teaching Points

• Unilateral seminal vesicle (SV) agenesis:
  • Often found incidentally at cross-sectional imaging,
  • Develops if an embryologic insult occurs before the 7th week of gestation, when the ureteric bud arises from the mesonephric duct

• Seminal vesicle agenesis does not occur isolated and is often associated with ipsilateral renal agenesis (79% of cases) or other renal abnormalities (12%) and it can also be associated with normal kidneys (9%)

• When a unilateral SV agenesis is detected, please check kidneys
References


