Video session- Secondary tumors in GU

Ondrej Hes
Plzen, Czech Republic
• 67-year-old male

• Patient was followed for urothelial carcinoma

• Elevated PSA during routine work-up

• Ultrasonography, CT- advanced tumor infiltrating neck of the bladder and prostate.
Usually we have TUR
CK7 and GATA 3
PSA, PAPh, and NKX3.1
# Prostate staging (AJCC 2017)

## Pathological T (pT)

<table>
<thead>
<tr>
<th>T Category</th>
<th>T Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2</td>
<td>Organ confined</td>
</tr>
<tr>
<td>T3</td>
<td>Extraprostatic extension</td>
</tr>
<tr>
<td>T3a</td>
<td>Extraprostatic extension (unilateral or bilateral) or microscopic invasion of bladder neck</td>
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<tr>
<td>T3b</td>
<td>Tumor invades seminal vesicle(s)</td>
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<tr>
<td>T4</td>
<td>Tumor is fixed or invades adjacent structures other than seminal vesicles such as external sphincter, rectum, bladder, levator muscles, and/or pelvic wall</td>
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Note: There is no pathological T1 classification.

Note: Positive surgical margin should be indicated by an R1 descriptor, indicating residual microscopic disease.

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**Fig. 58.9** Clinical and pathological T4 is defined as a tumor that is fixed or invades adjacent structures other than seminal vesicles such as bladder, as shown here, external sphincter, rectum, levator muscles, and/or pelvic wall.
Differential diagnosis-Morphology

• UCa
  – Evident in situ or exophytic papillary tumor BUT!!!

• PCa
  – Clear cell areas OR foam cell areas
  – Prominent nucleoli
  – „Classic“ acinar adenocarcinoma
Pseudopapillary Features in Prostatic Adenocarcinoma Mimicking Urothelial Carcinoma

A Diagnostic Pitfall

Jennifer Gordetsky, MD* and Jonathan I. Epstein, MD*†‡
• Uncommon and rare type of adenocarcinoma of the prostate.
• These tumors are typically poorly differentiated with papillary-appearing structures containing central blood vessels,
• Demonstrate subtle gland-like formation resembling rosettes. The nuclei are usually pleomorphic, large, irregular and hyperchromatic, and the cells contain delicate pale cytoplasm.
High-grade adenocarcinoma of the prostate mimicking urothelial carcinoma is negative for TERT mutations

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Crazy differential diagnosis: Paraganglioma?
Up to 83% paragangliomas of urinary bladder are GATA3 positive
Thank you for your attention

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