July 2024 Answer Key

**CASE 1:** 59 year old male with history of myasthenia gravis, diffuse large B cell lymphoma, presenting with bladder mass and right hydronephrosis.

Diagnosis: Sarcomatoid urothelial carcinoma

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**CASE 2:** 28 year old male with sickle cell disease, presented with 6 cm renal mass and bilateral paravertebral lymphadenopathy. Pax 8 patchy positive, AMACR diffusely positive. What is your differential diagnosis and what additional studies would help you.

Diagnosis: TFE3 rearranged RCC

Differential diagnosis:

Papillary RCC

Epithelioid angiomyolipoma

SDH deficient RCC

FH deficient RCC

Additional studies: CD10, Cathepsin K, Mart1, HMB45, TFE gene rearrangement studies

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**CASE 3:**  Bladder mass noted on CT performed for evaluation of renal stones.

Diagnosis: Urothelial carcinoma with trophoblastic differentiation. hCG positive.

H and E: <https://pathpresenter.net/public/display?token=4f604629>

hcG: <https://pathpresenter.net/public/display?token=bfc2dc3c>

**CASE 4**: Papillary urethral lesion in a 63 year old male with a prior history of high grade urothelial carcinoma.

Diagnosis: Condyloma accuminata

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**CASE 5:** 17 year old male with a 5.2 cm testicular mass. Serum hCG: 157 mIU/ml, and LDH 39 ng/ml.

Diagnosis: Mixed germ cell tumor, teratoma and embryonal carcinoma with scattered syncytiotrophoblasts

**Case 6:** Slow blinking of cats implies to their expression of trust, contentment and affection