

03/27/24 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Sameer Salem (@SamerSalem18) Case Discussants: Jack Penner (@) and Sharmin (@Sharminzi)

CC: 52 yo caucasian male with few months of intermittent gross hematuria (on regular check-up)

HPI:

PMH:

No prior

Meds:

vrs.

Lisinopril

10mg for 3

surgeries or

malignancies

Hypertension

Occasional right flank pain

ROS(-): Fever, weight loss, lower urinary tract symptoms

Fam Hx: None.

Soc Hx: None.

Vitals: T: Afebrile. HR: 78 BP: 131/83 RR: 15

Exam:

Gen: Oriented, normal conversation

CV: Regular, no murmurs, gallops. Pulm: Clear to auscultation.

Abd: No tenderness, no hepatomegaly or masses, normal bowel sounds

Neuro: Normal reflex and motore sensation in all limbs.

Notable Labs & Imaging:

Extremities/skin: No edema

Hematology:

WBC: 5200 Hgb: 17.4 Hkt nl (high 40s) Plt: 240

ESR: nl

Chemistry:

Na: 143 K: 4.7 Cl: 101 HCO3: 28 nl BUN:21 Cr: 0.98 Glucose: 96 Ca: 9.1

Coag: nl

LFT normal, AST: 35, ALT: 31, Alk-P: Albumin: 4.1

UA: Red colour, specific gravity 1.023

No glucose, ketones, protein; RBCs 3+

Microscopy of UA: Epithelial cells 2/HPF, RBCs >100/HPF, WBC

2/HPF; no bacteria, leukocyte esterase, nitrite

Imaging:

differentiation

CTAP: 8 cm mass on upper pole of the right kidney, no evidence of spread to the lymph nodes, perinephric fat, or other organs.

Pathology of partial nephrectomy: Clear Cell RCC 8cm sarcomatoid

Dx: Clear Cell RCC w/ sarcomatoid differentiation

Problem Representation:

52 yo M w/ pmh of fairly well controlled HTN p/w few months of intermittent gross hematuria and occasional R-flank pain. Has a benign physical exam, Hgb of 17.4, and UA that shows many RBCs

Teaching Points (Shreyas):

1. Hematuria: Things to think about- Medications, underlying hematological disorders, systemic v/s localized to the GU tract. (kidney, ureter, bladder, urethra and prostate)

Mimickers of hematuria: Woman with vaginal bleeding, Pigments (rhabdomyolysis, hemoglobinuria, porphyria), beet ingestion.

2. Right flank pain + no other systemic symptoms makes us think of Kidney pathology (glomerular v/s non glomerular); glomerular microscopic > macroscopic [Glomerular hematuria: proteinuria ± RBC

casts generally expected]; non glomerular - pyelonephritis, RCC, polycystic kidney disease AND Bladder pathology - urothelial cancer. 3. Good physical exam is key (back, flank), U/A, exam directed to looking

US (stones/hydronephrosis), CT A/P; urology consult ± cystoscopy will help further narrow down Dx. 4. Gross hematuria -> anemia: orthostatic vitals can help understand

for signs of bleeding. (to r/o systemic causes of bleeding) CBC, INR, kidney

degree of volume deficit and help decide next steps. 5. Approach to Polycythemia - Mimicker (hemoconcentration), EPO

(hypoxia as in- OSA/OHS; not mediated by hypoxia as in- RCC) v/s non-EPO mediated (polycythemia vera/MPN) 6. RCC paraneoplastic syndromes: Hypercalcemia, HTN, ACTH induced

cushing, EPO induced polycythemia. 7. Biopsying RCC carries risk of seeding tumor and : nephrectomy is what gives us a pathological Dx. Checking prior imaging is also useful (to

help delineate complex renal cysts v/s malignancy) 8. Genetic testing or no genetic testing? Case dependent, a discussion with patient & family about pros and cons is useful.

None.

Allergies: None.

Health-Related Behaviors: