



# 04/03/25 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Rahul (@RahulPottabath1) Case Discussants: Rabih (@rabihmgeha) and Elena (@)

**Scribing (Lera)**  
**CC:** 70 F presented to ED with **2 wks of persistent fatigue**.

**HPI:** Looked **more weak and pale** than usual. Also noticed decreased appetite and 14 lbs **weight loss** in past 1 year.

**ROS:** No LOC, falls, fever, chest pain, SOB, cough, rashes, muscle / joint pain, hematuria or bleeding from other sites.

**PMH:**  
 HTN, T2DM (complicated)  
 Anemia (2 y ago)

Mammogram nl  
 Colonoscopy nl  
 Pap smear nl

**Meds:**  
 Iron and B12 for anemia  
 Sitagliptin  
 Metformin  
 Valsartan  
 Amlodipine

**Fam Hx:** none

**Soc Hx:** From Central America, no recent sick contacts.

**Health-Related Behaviors:**  
 no smoking, drinking or drug use

**Allergies:** none

**Vitals:** T: 98 BP: 140/60 RR: 14 HR: 95 Sat: 96% at RA  
**Exam:** Gen: 51 kg, no jaundice  
**HEENT:** no tonsillar exudates, no LAD. **Conjunctival pallor**.  
**CV:** nl **Pulm:** nl  
**Abd:** soft, non-distended, no organomegaly.  
**Neuro:** AO x 3 **MSK:** no clubbing, rashes, cyanosis or edema.

**Notable Labs & Imaging:**  
**Hematology:**  
**WBC:** 2.8 (neutr 55%, lymph 32%) **Hgb:** 8.2 **MCV:** 88 **Pit:** 58 Hct: 24.6 RDW 49

**Chemistry:** Na: 135 K: 5.2 Cr: 0.9 BUN: 21 Ca: 9.3 Glu: 138 Cl: 102 AG: 9  
 AST: 36 ALT: 17 **ALP: 2588** Bili: 0.8 Albumin: 4.3 Total protein: 7.8 GGT: nl.  
**INR** 1.3 **PTT** 38 **PT** 16.2 **HbA1c** 8.5%  
 UA unremarkable. HIV, HBV, HCV negative. TSH nl, ANA negative. Quantiferon neg.

**CXR:** unremarkable. **CT CAP:** diffuse sclerosis of the multiple bones (vertebrae, sternum, ribs, pelvis, femurs). No cirrhosis. 2 mm **RUL solitary nodule**, no LAD. Cholelithiasis w/o inflammation. **Bone scan:** heterogeneous diffusely increased uptake in multiple bones. More pronounced in femur and proximal humerus. C/w superscan 2/2 **diffuse osseous metastatic involvement**.

**PTH 78, 25 OH-vit D:** low. SPEP, UPEP nl. **Retic count:** 2.63%, haptoglobin nl. Ferritin 1542, **Vit B12:** 1500. Iron 221, transferrin 192, TIBC 270. **D-dimer:** 10. Fibrinogen 309. LDH 212. Uric acid 6.6.

**PBS:** normocytic anemia with anisopoikilocytosis (occasional elliptocytes, ovalocytes). Granulocytic left shift with occasional metamyelocytes, myelocytes, promyelocytes. No blasts. Platelets decreased, no clumping.

**BM Bx:** hypocellular, nl morphology, no blasts. Clusters of atypical epithelial cells with prominent nucleoli (+ CK20, CDX2, pankeratin) and fibrosis. FISH negative. Immunophenotype non-specific (Pancreatobiliary? Bladder? Ovary?)

**Dx:** **pancytopenia 2/2 metastatic adenocarcinoma of unknown primary.**

**Problem Representation:** A 70 year-old female with Hx of complicated T2DM, HTN and non-specified anemia presented to ED due to subacute fatigue, weight loss and generalized weakness.

**Teaching Points (Dan):**  
**Approaching Fatigue**  
 - Exertional component? True weakness vs asthenia?  
 - Fatigue is largely a **neurological sensation** and may reflect something systemic, originating in the **blood**.

**Weight Loss Schema**  
 - See CPS Schema. Consider ↓ Intake, ↓ Malabsorption vs Inflammatory processes.

**Physical Exam Findings**  
 - Use conjunctiva to gauge degree of anemia. Assess for pallor.  
 - Note patient's **disproportional** weight loss to anemia.  
 > If no obvious infectious or autoimmune issue, consider malignancy (favor upper airway/GI)

**Pancytopenia & Isolated Elevated Alk Phos**  
 - Alk Phos is a marker of **osteoblastic** activity & can also be found in biliary epithelium.  
 - Extreme elevation in Alk Phos without AST/ALT involvement favors bone disease.  
 - Pancytopenia CPS schema: marrow infiltration vs marrow failure vs peripheral process. If **pancytopenia with prominent extra-hematologic fingerprint**, consider this as the primary driver of symptoms.

**Primary Bony Disease Involvement**  
 - Lung cancer, breast cancer, prostate cancer classic culprits  
 - Non-malignancy: sarcoid & histiocytic disorders