



# 6/21/23 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Marino (@) Case Discussants: Dr. Jack Penner (@JackPenner) and Sharmin (@Sharminzi)

**CC:** 96 year old male presents to the ED with bilateral leg swelling.

**HPI:** Aid noticed bruising in the legs a few days ago. Unaware of trauma. For the past 3 days, worsening leg edema. Tried compression stockings, with no success. Patient complains of dry cough for the past two days. No SOB, chest pain, palpitations.

**PMH:**  
Afib  
Severe AoS  
CAD (PCx 2 vessel)  
OSA  
Hypothyroidism  
CKD III

**Meds:**  
Aspirin,  
Atorvastatin,  
L-Thyroxine,  
Vitamin D3

**Fam Hx:**  
Cardiac hx

**Soc Hx:** No smoking, alcohol, drugs.

**Allergies:**  
NKDA

**Vitals:** T: afebrile HR: 94 BP: 123/73 RR: 18 SpO2 96% RA  
**Exam:**

**Gen:** elderly man in no acute distress **HEENT:** nl  
**CV:** holosystolic ejection murmur 3/6 best heard in upper L sternal border **Pulm:** bibasilar crackles  
**Extremities/skin:** LUE large hematoma in antecubital fossa (previous IV). 3+ pitting edema, and bilateral leg discoloration, with petechial rash. Left leg slightly warmer and bigger. Large ecchymosis on the lateral aspect distal to the left fibular head. Pulses normal.

**Notable Labs & Imaging:**

**Hematology:**  
WBC: 13.6 (diff normal) Hgb: 10.8 MCV 101 (bl) Plt: 187k  
**Chemistry:**  
Normal electrolytes  
Cr: 1.35 (bl) Troponin mildly elevated BNP 1001 TSH 4.23  
UA: 3-9 WBC, 20 RBC D dimer 3090 INR 1.1 PTT 93

**Imaging:**  
EKG: AV block I° CXR: Left lower lobe opacity  
US: no evidence of DVT

Echo: EF 75%, severe AoS with moderate MR  
**Hospital course:**  
Diagnosed with PNA. Repeat coags showed the same results. Lupus anticoag was negative. Factor 7, factor 8 and 11 low. Von Willebrand levels were normal. Mixing study did not correct. Factor 8 inhibitor high. Treated with high dose prednisone. Developed acute anemia. Given rituximab and discharged. Completed treatment with improvement.

**Final dx:** Acquired factor 8 inhibitor.

**Problem Representation:** Nonagenarian with significant cardiac hx, including AoS, on aspirin, presenting with acute, progressive LE edema and cough, found to have multiple extremity hematomas on exam with normal JVP.

**Teaching Points (Ayesha):**

**CC: Bilateral Leg swelling:** Older age more prone to pathology. Think about: kidneys, liver, and the heart involvement - look for JVD, check for the state of the heart, nephrotic syndrome, vascular pathologies.

- Can bilateral lower extremity edema also lead to bruising? - increased hydrostatic pressure in vessels and due to extravasation of blood vessels.
- Is there bruising in other parts of the body - is it something to put emphasis on? - (gingival bleeding, petechiae, atraumatic bleeding elsewhere) - coagulopathy in addition to LE swelling.

**PMH:** Look for any cardiac pathologies that may have lead to edema: structural disease, valvular heart disease etc.

- Look for certain agents that can predispose patients to bruising - Anticoagulants (eg. Aspirin)

**Vitals/PE:** Skin integrity, especially with age, predisposes to bruising especially with meds.

- Spontaneous hematoma - can cause coagulopathy
- Look for traumatic causes - bumping distal vs proximal extremities that might increase risk - Compare where the bruises are located and if could be due to trauma?

**Labs & Imaging:** If taking Aspirin (look at platelets if affected). Check BNP - indicates heart failure causing edema.

- PTT: look for potential causes - inherited (deficiencies in factors, 8, 9, 11, 12, VWD) vs acquired (in elderly most likely) - Meds (heparin, DOACs) lymphomas, leukemias, acquired vW syndrome - (look at echo findings for Heyde's syndrome due to the high shear stress from the severe aortic stenosis).