



# 11/19/21 Morning Report with @CPSolvers



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**CC:** Chest pain and syncopal episode

**HPI:** 33yo M presenting w/ generalized illness w/ malaise 1 week prior to admission.  
 - Rash on the face and abdomen - petechial in nature, confined largely to the face and abdomen.  
 - Prior ep of possible hematochezia - unsure if there was blood. Left-sided chest pain just recently started (“as someone sitting on him”).  
 - On the day before presentation to ED, syncopal episode in the shower.

**PMH:** HTN  
 Type 2 Diabetes  
 Morbid obesity  
 Subclinical hypothyroidism  
 Prior Fournier’s gangrene

**Meds:** HCTZ  
 Lisinopril  
 Glimepiride  
 Metformin

**Fam Hx:** None

**Soc Hx:** None

**Health Related Behaviors:** None

**Allergies:** None

**Vitals:** T: 36.7C HR: 102 BP: 102/55 RR: 20 SpO<sub>2</sub>: 97%

**Exam:**  
**Gen:** BMI 60.6, poorly responsive to voice. Dry mucous membranes, icteric conjunctiva.  
**HEENT:** thyroid not palpable, no JVD. Large neck, w/ acantosis nigricans.  
**CV, Pulm, Abd:** unremarkable  
**Neuro:** awake and alert w/o gross abnormalities. He was confused and hx slightly limited.  
**Psych:** seems displaced affect w/ alteration in overall mentation, fleeting focus and worsening AMS.  
**Extremities/Skin:** warm and well perfused; no edema, no joint swelling/erythema. Petechial rash noted on face and abd.

**Notable Labs & Imaging:**  
**Hematology:** WBC: 9.7 Hgb: 7.4 MCV 84.5 Hct: 21.2% Plt: < 5000  
**Smear:** 4-5 schistocytes, 1-2 spherocytes, no nucleated RBC w/ plts diminished in quantity and normal appearing PMNs  
 PT: 13.4 PTT: 33.9 Retic count 235

**Chemistry:** Na: 137 K: 4.4 Cl: 99 BUN: 22 Cr: 1.19  
 AST: 77 ALT: 29 Alk-P: 98 T. Bili: 4.1 direct bili 0.5 Albumin: 4.2  
**UA:** dark yellow, cloudy, glucose (neg) blood trace (neg) bil - small urobilinogen 4.0 (neg)  
 Hep B sAb (+) Hep B sAg (-) Hep B cAb (+) Hep C non reactive HIV (-)  
 DAT IgG positive (Coombs) ANA 1:320 (neg) LDH 1331  
 Haptoglobin <5 mg/dL Fibrinogen 251  
 ADAMTS13 activity <1% ADAMTS13 Ab 25

**Imaging:**  
 CXR: hypoinflated lungs.  
 Head and abd CT: no acute intracranial or abd abnormalities.

**Final diagnosis: TTP**

**Problem Representation:** 33yM p/w chest pain and syncope, later found to have acute onset thrombocytopenia and anemia.

**Teaching Points (Maria):**

- **2 CCs - where to start?** One symptom can act as a barometer for severity. ie: LOC increases probability of emergent causes of chest pain. Tachycardia increases severity of hemoptysis.
- **Incidental Event - when to consider?** Always consider common events as possible triggers with the caveat most people don’t have any complications ie: viral diseases are mostly nonconsequential, holiday heart - a lot of people consume alcohol, few get Afib.
- **Chest Pain:** 4+2+2
  - Young patients: You cannot rule out any emergent causes, but have to include a wider range of possibilities.
- **Syncope** → **Reshape to Transient Loss of Consciousness.**
  - 4S: Syncope, Seizure, Sugar, Strategic strokes (RAS)
  - CORE: Cardiogenic, Orthostatic, Reflex Mediated. Only cardiogenic causes chest pain - AS (SAD triad), HCM (murmur maneuvers), ARVD, PHTN, PE.
- **Petechial Rash:**
  - Always anchor in symptoms that are unexpected, we don’t expect chest pain + petechial rash.
  - With petechial rash + systemic signs: consider vasculopathy.
- **Thrombocytopenia** - explains petechial rash; **Anemia** - explains chest pain and syncope. Always consider: ITP, Evan’s syndrome, MAHA.
  - Reflexively look at hemolysis labs + smear. 1 schistocytes is one too many!!
  - MC MAHA: DIC (coagulopathy + trigger); 2nd MC TTP.
  - For MAHA - look for drugs, valvular dz, transplant, Ca, pregnancy even before labs come.
  - For TTP: Initially calculate PLASMIC score to evaluate for the possibility. When confirmed always look for common associations (infections, autoimmune, malignancies).