



# 9/3/20 Morning Report with @CPSolvers



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**CC:** Syncope

**HPI:** 55 F developed dyspnea 4 months ago, initially while walking 4 blocks on level ground and then at rest. She also reported having developed lower limb swelling for which she was hospitalised and treated w/ diuretics.

Today she p/w syncope after walking 2 blocks with edema that was partly controlled by the medication she was prescribed.

**PMH:**  
Hypothyroidism  
Obesity

**Meds:**  
Levothyroxine  
Spironolactone  
Furosemide

**Fam Hx:** None

**Soc Hx:** Housewife

**Health-Related Behaviors:**  
Consumed 1-2 cigarettes/day until 35 years

**Allergies:**  
None

**Vitals:** T: 98.4 F HR: 75 BP: 95/60 RR: 24 SpO<sub>2</sub>: 93% 4L

**Exam:**  
**Gen:** Tired, appearing ill  
**HEENT:** Normal  
**CV:** Regular, diminished intensity, diastolic murmur pulmonic Area, systolic murmurs tricuspid area, S3+, JVD  
**Pulm:** Decreased BS, crackles in basal area  
**Abd:** Tender w/ shifting dullness +  
**Neuro:** Awake, no FND  
**Extremities/Skin:** Edema - B/I LL

**Notable Labs & Imaging:**  
**Hematology:**  
WBC: 4.8 Hgb: 12.7 Plt: 81  
**Chemistry:**  
Na: 137 K: 3.5 Cl: 95 CO<sub>2</sub>: 32 BUN: Cr: 0.9 glucose: 116 Ca:4.4 Corrected Ca 6.1  
ALT: 34 Alk-P: 117 GGT 31T. Bili: Albumin: 2  
CRP 13.9 Procalcitonin 0.11 lactate 1.9 Pro BNP 1045 BNP 438 Troponin T 0.014 CPK 21 LDH 518  
**ABG:** pH 7.44 pCo 53.4 P02 46.7 -->65.3 SaO 80% FiO2 32% PaO2/FiO2 168.2  
**Thyroid** normal  
**Paracentesis:** bloody, albumin 0.9, Pr 3.7 RBC 27 WBC 200  
Culture: Strep UA Alb 75  
**Imaging:**  
EKG: R ventricular strain pattern + RV hypertrophy signs, RBBB  
CXR: Enlarged prox PA, enlarged R ventricle w/ mild pleural effusion  
ECHO: R dilated cavities PA 77 mmHg, systolic dysfunction R ventricle, severe pericardial effusion  
CT: No PE  
Catheterisation: coronaries normal, coronary Artery P 55, L sided filling pressures <13, Pulm vascular resistance 15

**Problem Representation:**  
A middle aged woman p/w acute syncope and chronic dyspnea w/ volume overload, hypotension and diminished heart sounds. Imaging and Labs were c/w a Dx of pericardial effusion and idiopathic pulmonary hypertension.

- Teaching Points (Sukriti):**
- The dilemma of prioritising dyspnea (the more diagnostically fruitful condition) vs syncope (more morbid condition)
  - Dyspnea: Anatomical approach, from outside to inside the chest + Base rate (heart, pulmonary).
  - Filter the dyspnea through the Sx of Syncope: heart > lung
  - What clues are we looking for? Time course, inflammation, features of presyncope and heart failure
  - Looking at syncope from the lens of the physical exam: structural > rhythm abnormalities.
  - The soft heart sounds suggest tamponade; presentations of which may vary w/ severity + time, look for pulsus exaggeratus!
  - Valvular pathology -- Is it primary or secondary (functional)?
  - CRP: Ignoring pertinent negatives is a source of diagnostic errors!
  - An approach to hypocalcemia: 1. Hormones - Vit D, PTH 2. Chelation - PO4, Citrate, Albumin, Saponification (pancreatitis)
  - Interpreting paracentesis: SAAG borderline, is this exudative (Clue: blood) or transudative (clue: Cardiac ascites-- total Pr >2.5 in context of portal HTN)
  - Dilated R. ventricle -- clue: tempo of pathology (acute) + severity of effusion
  - Pericardial effusion -- idiopathic, uremia, autoimmune (lupus), cancer, hyperthyroidism