

# 10/29/25 Morning Report with @CPSolvers

**"One life, so many dreams"** Case Presenter: Hee Mun Case Discussants: Sharmin(@Sharminzi) and Prof Reza(@RxDxEdu)

<https://clinicalproblemsolving.com/present-a-case/>



<p><b>Scribing (Manaswini)</b>  <b>CC:</b> 45 year old presented with 2 days of sharp left sided chest pain and shortness of breath</p> <p><b>HPI:</b> SOB worse when lying flat, and relieved on sitting up. She recalled brief fainting episodes in recent weeks that resolved on their own. She reported right lower back pain, fatigue, mild cough, low grade fever and oliguria</p>	<p><b>Vitals:</b> T: 37 HR: 74 BP: 103/74 RR: 24 Sat: 92% BMI:  <b>Exam:</b> Gen: Ill appearing  <b>HEENT:</b> JVD, No thyromegaly, or cervical adenopathy  <b>CV:</b> Systolic murmur at left sternal border louder with inspiration and standing  <b>Pulm:</b> Basilar crackles at the bases  <b>Abd:</b> Protuberant with fluid wave, mild hepatosplenomegaly and right CVA tenderness  <b>Extremities/skin:</b> B/L lower leg edema</p> <p><b>Notable Labs &amp; Imaging:</b>  <b>Hematology:</b>  WBC: 9.1 Hgb: 13.8 Plt: 206 ESR: 28  Trop: 0.15(elevated), BNP-800, Cr-2.3, Glu-152, AST- 840, ALT-543 Albumin-3  <b>UA:</b> Trace proteinuria  <b>Chest X-ray:</b> marked cardiomegaly and pulmonary edema  <b>ECG:</b> diffuse ST-segment elevations with PR depressions  <b>Echo:</b> showed large pericardial effusion with RA collapse, RV dilation, pulmonary HTN, TR, and mild MR.  LVH with preserved EF 65%;  <b>Blood culture:</b> Negative</p>	<p><b>Problem Representation:</b> 45 year old female with heart failure, hypertension, and prior lv heroin use presenting with 2 days of pleuritic chest pain with sob, fatigue, low grade fever and poor medication adherence, with elevated troponin, BNP, diffuse ST elevations and PR depression on EKG and large, right pericardial effusion</p> <p><b>Teaching Points (Eylon)</b></p> <ol style="list-style-type: none"> <li>I. <u>JVD and crackles</u>  - Could be secondary to HF since JVD correlates with increased R pressure which could be secondary to increased L sided pressure</li> <li>II. <u>Lancisi sign</u>  - Prominent JVP 2/2 fusion of the C wave and V wave → suggestive of tricuspid regurgitation</li> <li>III. Worsening murmur with decreased preload could be secondary to HOCM</li> <li>IV. New onset ascites → paracentesis should be done to rule out any kind of infection or could be secondary to cardiac cause; check SAAG</li> <li>V. <u>Pericarditis</u>  Friction rub = visceral and parietal serosa rubbing together  However, in the presence of an effusion there will not be a friction rub</li> <li>VI. <u>Effusive-constrictive pericarditis</u>  Most common etiology: Tuberculosis  Non-TB causes: irradiation, cardiac surgery, autoimmune (RA, SLE, ankylosing spondylitis)</li> <li>VII. <u>For the development of further symptoms post-pericardial window:</u>  Check for expected complications of procedures:  - Did something happen in procedure leading to these complications?  Consider diagnostic accuracy:  - Did we biopsy the right spot?</li> <li>VIII. Low Cardiac Index → Suggestive of cardiogenic shock etiology</li> <li>IX. <u>Mavacamten</u>  Medication used in HOCM against myosin in cardiac myocytes to decrease cardiac contractility</li> </ol>
<p><b>PMH:</b> Heart Failure  HTN  Intravenous heroin-2 months back  SABE- subacute bacterial endocarditis</p> <p><b>Meds:</b>  Spironolactone - not adherent</p>	<p><b>Fam Hx:</b> Brother died suddenly at 18  <b>Social Hx:</b>  African American- living in a rural area with no access to medical checkups</p> <p><b>Health-Related Behaviors:</b>  Cigarette smoking</p>	<p>Pericardial Window- 965ml drained, Biopsy showed- acute fibrinous pericarditis without infection or malignancy  Treated with NSAID and colchicine  One day later, new AFib and incomplete RBBB appeared.-&gt; later respiratory failure → intubated;  <b>CXR:</b> bilateral infiltrates;  ABG pH 7.28, PaCO<sub>2</sub> 48 mmHg, PaO<sub>2</sub> 52 mmHg (on 100% O<sub>2</sub>), HCO<sub>3</sub><sup>-</sup> 21 mEq/L, Lactate 2.8 mmol/L  Swan CVP 38 mmHg PA 60/30 mmHg, PCWP 30 mmHg, CO 2.2 L/min, CI 1.5 L/min/m<sup>2</sup>, SVR 1500 dyn·s/cm<sup>5</sup>, SvO<sub>2</sub> 48%  Despite dobutamine and epinephrine for elevated CVP and bradycardia, she developed severe refractory bradycardia leading to pulseless arrest and death.  Post mortem - Enlarged heart with septal hypertrophy, partial right ventricular thickening, and right heart dilation with tricuspid enlargement from chronic overload. Microscopy showed marked myocyte hypertrophy and disarray in both ventricles.</p> <p><b>Dx:</b> Hypertrophic cardiomyopathy masked by a large hemorrhagic pericardial effusion leading to fibrinous pericarditis, tamponade and cardiogenic shock</p>