



# 5/19/26 POCUS VMR with @CPSolvers

"One life, so many dreams" Case Presenter: Jeffrey Kott (@) Case Discussants: Ravi (@rav7ks) & Deb (@deboracloureiro)  
<https://clinicalproblemsolving.com/present-a-case/>



|                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Scribing (Krishna)</p> <p><b>CC:</b> 81 y F with Shortness of breath with exertion</p> <p><b>HPI:</b> Several days of shortness of breath with exertion.</p> <p><b>ROS:</b> Positive for Dyspnea with exertion-relieved with rest</p> <p>No Fever, chills, palpitations, sick contacts, orthopnea, PND, lower extremity swelling</p>                                   |                                                                                                                                                                                               | <p><b>Vitals:</b> T: 99.3 HR: 110-120 BP: 110-140/90 RR: Sat: 94 on 3l NC</p> <p><b>Exam:</b> Alert and oriented, no acute distress</p> <p><b>Lungs:</b> Crackles bilaterally at the bases, no wheezes/rhonchi</p> <p><b>Cardiac:</b> Irregularly irregular rhythm, tachycardic, + holosystolic murmur +JVD</p> <p><b>Abd:</b> Soft, nontender, nondistended</p> <p><b>Neuro:</b> No gross focal deficits</p> <p><b>Skin:</b> Surgical site with minimal bruising, otherwise C/D/I</p> <p><b>Extremities:</b> No obvious pitting edema (though in compression stockings)</p>                                                               | <p><b>Problem Representation:</b> 81 year old female with PMH of MR, afib came with shortness of breath with exertion over several days with subsegmental PE on CTPA with diffuse central GGO and elevated BNP; showing no signs of RV strain (Negative McConnells, D-sign, 60/60) on POCUS.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p><b>PMH:</b></p> <p>Afib</p> <p>SLE</p> <p>Mild Mitral regurg</p> <p>Hypothyroid</p> <p>Overactive bladder</p> <p>Recent Routine left hip arthroplasty(POD 16)</p> <p><b>Meds:</b></p> <p>Eliquis 5 mg qAM / 2.5mg qPM</p> <p>Estradiol patch</p> <p>Amlodipine</p> <p>Levothyroxine</p> <p>Losartan</p> <p>Metoprolol tartrate</p> <p>Omeprazole</p> <p>Paroxetine</p> | <p><b>Fam Hx:</b></p> <p>Noncontributory</p> <p><b>Social Hx:</b></p> <p>Lives alone, independent in all ADLs/IADLs</p> <p><b>Health-Related Behaviors:</b></p> <p><b>Allergies:</b> None</p> | <p><b>Notable Labs &amp; Imaging:</b></p> <p><b>Hematology:</b></p> <p>WBC: 10.7 Hgb: 8 (baseline 8.4) Plt: 464 MCV:</p> <p><b>Chemistry:</b></p> <p>Na: 136 K: 4.6 Cl: HCO3: 19 (AG: 13)</p> <p>Cr: 1.02 BUN: 22 Glucose:</p> <p>AST: 41 ALT: 35 Alk-P: 168 Bili: 1.1</p> <p>Trop: 17→ 16</p> <p>BNP: 4913</p> <p><b>Imaging:</b></p> <p>EKG: Afib with RVR</p> <p>CTPA: segmental/subsegmental PE with diffuse GGO</p> <p>POCUS 4 Chamber view:</p> <p>Hyperechoic structure in RV wall,</p> <p>Negative McConnells, D-sign, 60/60 sign</p> <p><b>Dx: Non-hemodynamically significant PE + ADHF with severe MR and Afib with RVR</b></p> | <p><b>Teaching Points (Glen)</b></p> <p>-<b>Dyspnea:</b> ANATOMICAL Cardiac? (ACS, A fib[meds not optimised], HF) resp?(PE [post op],PNA, COPD).</p> <p>-<b>Dyspnea on exertion:</b> Cardiac[HF]</p> <p>-<b>Eliquis(apixaban):</b> lower dose and risk of coagulation (plus polypharmacy).</p> <p>-<b>Exam:</b> tachycardic with nl bps &gt; PE. Holosystolic murmur &gt; MR,TR</p> <p>-<b>A fib:</b> from meds? Chronic PE?</p> <p>-<b>Elevated JVP:</b> right sided HF? Crackles bilaterally could mean Pulm edema from left sided HF[elevated troponin]. cause from Afib?</p> <p>-<b>Low HCO3:</b> acidosis or compensated resp alkalosis(get blood gas).</p> <p>-<b>EKG:</b> look for sinus tachy, S1Q3T3, bt findings were of a fib.</p> <p>-<b>Echo markers of PE:</b> RV:LV ratio&gt;1, McConnell Sign: Akinesis of RV wall, D-sign[Septum flattening because of pressure changes]. Clot in Transit.</p> <p>-<b>How to make Progress:</b> Echo signs can also be seen in chronic PE. If hemodynamically unstable or RV strain signs you can escalate tx.</p> |