



07/15/21 Morning Report with @CPSolvers



Case Presenter: Rafael Alvim (@) Case Discussants: Promise lee (@promiseflee) and Nilayan sarkar (@nilayansarkar)

<p>CC: Chest pain</p> <p>HPI: 57 year-old male with chest pain. Dyspnea, palpitations for 2 weeks. Pain worsens on exertion and subsides with rest.</p> <p>ROS- Denies PND, orthopnea, weight loss, fevers, chills, or leg swelling.</p>	<p>Vitals: T: 36.4 HR:74 BP: 131/71 RR:18 SpO₂: 99% on RA</p> <p>Exam:</p> <p>Gen: No acute distress</p> <p>HEENT: Pale conjunctiva</p> <p>CV: Regular rate and rhythm</p> <p>Pulm: Clear to auscultation</p> <p>Abd:</p> <p>Neuro: A/O x 4</p> <p>Extremities/Skin: No peripheral edema</p>	<p>Problem Representation: 57 year old male with exertional chest pain presenting with chest pain, dyspnea, and palpitations with elevated white blood cell counts, elevated MCV, and anemia.</p>
<p>PMH:</p> <p>Meds:</p> <p>Fam Hx:</p> <p>Soc Hx: 40 pack year smoking history. Quit few years ago. Now on e-cigarettes</p> <p>Health-Related Behaviors:</p> <p>Allergies:</p>	<p>Notable Labs & Imaging:</p> <p>Hematology:</p> <p>WBC: 74,000/mm3 (40% blasts, 21% segmented neutrophils, 2% monocytes, 2% eosinophils, 6% metamyelocytes, 8% myelocytes, 4% promyelocytes, 11% lymphocytes) Hgb: 5g/dl, MCV-109, MCH-35, Hct-16 Plt: 14k</p> <p>Peripheral Smear- Blasts and Auer rods</p> <p>BM- Hypercellularity, diffuse involvement by AML (75% blasts)</p> <p>EKG: Normal</p> <p>FISH- Negative for t(15:17), CD34+ myeloblasts positive</p> <p>Final dx- Acute Myeloid Leukemia</p>	<p>Teaching Points (Rafa):</p> <ul style="list-style-type: none"> ● CHEST PAIN IN A 57 YO <u>Rule out emergency first:</u> 4 + 2 + 2 Esophageal rupture / esophageal impaction ACS, Takotsubo, aortic dissection, tamponade PE, pneumothorax Important to characterize the pain: does it irradiate? Is it new? Does it get worse with movement? Is it constant? Comes and goes - ACS? Any dyspnea associated - sinister causes? Abdominal etiologies: pancreatitis, gastric volvulus, cholecystitis ● SMOKING HISTORY Think about primary lung pathology COPD, ILD, neoplasia, pulmonary arterial hypertension ● TACHYCARDIA - sinus or non-sinus (ECG) Pulmonary causes: advanced pulmonary disease, can also predispose to arrhythmias ● SUPER ELEVATED WBC Leukemoid reaction ≠ leukemia Peripheral blood: leukemoid reaction w/ cells usually more mature than myelocytes. LAP activity: high in a leukemoid reaction but low in CML Basophilia - uncommon - think about myeloproliferative disorders like polycythemia vera, myelofibrosis and CML. ● AUER RODS Crystal aggregates of MPO) - danger: Auer rods can stimulate the coagulation cascade - DIC Classically a/w APML