



02/25/21 Morning Report with @CPSolvers



Case Presenter: Kiara Camacho (@kiaracamacho96) Case Discussants: Priyanka Athavale (@pri_athavale) and Ana Clara Miranda (@ana_miranda4)

<p>CC: Chest pain</p> <p>HPI: 44yF presents to ED w/2 days of progressive chest pain and pressure that radiates to back, neck and L arm. Pain associated w/ profuse diaphoresis.</p> <p>Had been having headache for the past year associated with pulsatile tinnitus. HA improved with tylenol.</p>	<p>Vitals: T:afebrile 36.8 HR:82 BP:152/102 RR:20 SpO₂:</p> <p>Exam:</p> <p>Gen: not well appearing.</p>	<p>Problem Representation: 44yF recently diagnosed with HTN p/w acute chest pain and long standing HA w/pulsatile tinnitus. Diagnosed w/SCAD of the LAD artery and widespread narrowing of multiple vessels.</p>	
<p>PMH: 1y ago HTN, fibromyalgia.</p> <p>OB/GYN: no HTN disorders or cardiomyopathy in pregnancy.</p> <p>Meds: ACEi.</p>	<p>Fam Hx:</p> <p>Soc Hx: Peruvian. Married w/2 children.</p> <p>Health-Related Behaviors: Doesn't consume alcohol, tobacco, drugs.</p> <p>Allergies:</p>	<p>Notable Labs & Imaging:</p> <p>Hematology: non contributory.</p> <p>Chemistry: Liver and Renal Function non contributory. Coag panel normal.</p> <p>Troponin T: 2960 (nl <0.014), pro BNP 1055 (nl<125).</p> <p>CRP: 1.25 (slightly elevated), ESR 35 (nl: 0-25). Complement, ANA, anti dsDNA, cryoglobulin, ANCA: neg. UA: neg.</p> <p>Imaging: EKG: sinus rhythm, ST elevation V1 - V3. CXR: Clear lungs. Normal mediastinum. No pneumothorax or pleural effusion. TTE: LVEF 35%, apical and septal akinesis.</p> <p>Cath lab: tortuous L anterior descending artery w/decrease in caliber after septal branch consistent w/ <u>spontaneous coronary artery dissection</u>.</p> <p>CT: narrowing and tortuosity of both iliac arteries and renal arteries. Stenosis of extracranial portion of carotid and vertebral arteries. Head CT not performed.</p> <p>Final DX: STEMI from a LAD SCAD secondary to FMD.</p>	<p>Teaching Points (Gabi Pucci): #WDx #BossLadies</p> <ul style="list-style-type: none"> • Chest pain: we must exclude emergency causes. Myocardial infarction/ischemia: pain looks like a pressure, radiates to the left arm and neck. Natural course: more acute than this presentation (2 days). • Other causes: lung/musculoskeletal/GI problems • Emergent causes: 4 (cardiac) +2 (pulmonary)+2 (GI) (4/2/2 rule) • 4 cardiac causes: 1) Acute coronary syndrome (myocardial infarction). Order EKG and troponin. 2) Aortic dissection: radiation for the back and neurological symptom (headache). Order CT scan with contrast. 3) Cardiac tamponade: order Echo. 4) Takotsubo cardiomyopathy. Order Echo/EKG. • 2 pulmonary causes: 1) Pneumothorax. 2) Pulmonary embolism • 2 GI causes: 1) esophageal rupture - order CT/Chest X-ray. 2) Food impaction • Approach to HA: look for red flags to decide if imaging is needed. • Pulsatile tinnitus: associated with vertigo, vomiting (absent in the case). Vascular etiology can cause it - AV malformations /aneurysms? • EKG ischemia: ST elevation (clot in the vessel/aneurysm/vasculitis), T inversion. Try to localize in which coronary artery it fits. Pericarditis: diffuse ST elevations. • Young woman with new onset HTN and fibromyalgia and headache - abnormal vasculopathy (heart + brain). Vasculitis / Fibromuscular dysplasia? • High diastolic pressure -> EtOh consumption, meds, sedentarism, high Na diet • Myocardial infarction: chest pain, EKG changes, elevated troponin, and arteriography showing an abnormality in the coronary. Plaque rupture / Coronary artery dissection • Medium-vessel vasculitis: Kawasaki's' disease (usually children) and Polyarteritis nodosa (GI symptoms eg) • Large-vessel vasculitis: Giant-cell arteritis and Takayasu's arteritis (usually in elderly) • Fibromuscular dysplasia: arteriography showing "string of beads" in renal, cerebral arteries. Can treat with antiplatelet medication and heart failure medications (ejection fraction 35% without full recovery)