



8/18/22 Morning Report with @CPSolvers



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<p>CC: 50yF hx of sickle cell dz w frequent vaso-occlusive crisis w b/l leg and shoulder pain, becomes altered during workup</p> <p>HPI: -</p>		<p>Vitals: T: 97 HR: 100 BP: 110/70 RR: 22 SpO2: 92%</p> <p>Exam:</p> <p>Gen:</p> <p>HEENT:</p> <p>CV:</p> <p>Pulm: b/l crackles</p> <p>Abd:</p> <p>Neuro: lethargic nonverbal min response to voice</p> <p>Extremities/Skin:</p>	<p>Problem Representation: 50yF hx of sickle cell dz w frequent vaso-occlusive crisis w b/l leg and shoulder pain, becomes altered during workup, MRI shows signs of fat embolism</p>
<p>PMH: HTN, ESRD on dialysis</p> <p>Meds:</p>	<p>Fam Hx:</p> <p>Soc Hx:</p> <p>Health-Related Behaviors:</p> <p>Allergies:</p>	<p>Notable Labs & Imaging:</p> <p>Hematology: WBC: 11 Hgb: 5.6 (baseline ~10-11) Plt: nl LDH 889</p> <p>Chemistry: CMP nl BUN Cr regular baseline glucose: nl</p> <p>Imaging: CXR: b/l lung infiltrates CT head: unremarkable MRI: Pt has acute chest syndrome. Abx started MRI: R transverse venous sinus thrombosis and extensive supra- and infratentorial hemorrhages c/w fat embolism syndrome</p> <p>Final dx: fat embolism syndrome</p>	<p>Teaching Points (Yazmin):</p> <ul style="list-style-type: none"> ● Evaluate MIST in acute/subacute settings for a px with AMS. ● Acute chest sx. A complication of sickle cell disease characterized by new chest infiltrate and respiratory symptoms → presents with chest pain, dyspnea, and hypoxia. Pathophysiology is unknown, symptoms occur due to vaso-occlusive crisis within the pulmonary vasculature. ● Vaso-occlusive crises: recurrent episodes of severe deep bone pain and dactylitis ● AMS + bone pain → fat embolism sx. Can occur spontaneously in SCDx. Look in MRI and ddx with vascular process = right transverse venous sinus thrombosis and extensive supra and infratentorial micro ● Classic triad of: <ul style="list-style-type: none"> ○ Hypoxia (most common symptom): tachypnea, dyspnea, cyanosis, diffuse crackles in the chest ○ Neurological symptoms: confusion, lethargy, seizures, focal neurological deficits, coma ○ Petechial rash (seen in up to 50% patients) : mainly seen in the axilla, chest wall, head, neck, conjunctiva, and buccal mucosa ● Dialysis complications: metabolic disturbances, infections, protein loss, abdominal hernias, leakage of dialysate, pleural effusion (rare) ● Treatment for SC crisis consider: Blood transfusions and adequate supportive treatment (hydration, pain management, nasal oxygen, thromboembolic prophylaxis) ● Remember: Px with SC have functional asplenia = increased risk for encapsulated bacteria (strep pneumoniae, neisseria meningitidis, haemophilus influenzae type b, salmonella typhi) ● Etiology: In SCDx → Bone marrow necrosis due to microvascular occlusion in sickle cell crisis increases the risk of fat embolism.