



# 9/7/25 Morning Report with @CPSolvers



*"One life, so many dreams" Case Presenter: (Eugene@EugeneBondzie) Case Discussants: (Zakariyya@pouroverguy ) and (Maddy@MadellenaC )*  
<https://clinicalproblemsolving.com/present-a-case/>

<p>Scribing (Seeme)</p> <p><b>CC:</b> 7 year old boy with 2 day history of pain in chest and 1 day history of fever</p> <p><b>HPI:</b> 2 days prior upper chest pain in school, had trauma history. Localized to upper chest and tenderness, no similar episodes in past, low energy for 1 M</p> <p><b>ROS:</b> no nausea, vomiting, cough or SOB.</p>		<p><b>Vitals:</b> T: 38.6 HR: 112 BP: 90/60 RR: 22 Sat: 98 BMI:</p> <p><b>Exam:</b> Gen: irritated</p> <p><b>HEENT:</b> wnl</p> <p><b>CV:</b> wnl</p> <p><b>Pulm:</b> no crepitations, only pain present</p> <p><b>Abd:</b> wnl</p> <p><b>Neuro:</b> wnl</p> <p><b>Extremities/skin:</b> wnl</p>	<p><b>Problem Representation:</b> 7 year old boy presented with pain and tenderness in the chest and fever associated with low energy for one month.</p>
<p><b>PMH:</b> Not significant</p> <p><b>Meds:</b> Vaccination history unclear No neonatal screening done</p>	<p><b>Fam Hx:</b> —</p> <p><b>Social Hx:</b> —</p> <p><b>Health-Related Behaviors:</b> Not significant</p> <p><b>Allergies:</b> NKDA</p>	<p><b>Notable Labs &amp; Imaging:</b></p> <p><b>Hematology:</b> WBC: 22k (N predominant) Hgb: 8.34 Plt: elevated-very high MCV: 79</p> <p><b>Chemistry:</b> Na: 132 K: 4.1 Cl: 99.8 HCO3: Cr: nl BUN: Glucose: Ca: Mg: AST: 45 ALT: 70 Alk-P: nl Bili: high (indirect predominant) Albumin: Total Protein: ESR: 54 CRP: 44 LDH: high 425</p> <p>Blood cultures: negative, peripheral smear: anisopoikilocytosis, target cells, no blasts</p> <p>Hb electrophoresis: HbS-50%, HbC-46%, HbA-0%</p> <p><b>Imaging:</b> CXR: normal</p> <p>Supportive care including hydration, pain meds and empiric antibiotics given.</p> <p><b>Dx:</b> HbSC disease complicated by vaso-occlusive pain crisis precipitated by trauma</p>	<p><b>Teaching Points (Masah):</b></p> <p><b>Chest Pain:</b> Thoracic cavity (heart, lungs), Upper Abdominal (esophageal)</p> <p><b>R/o Emergent Causes</b> 4 + 2 + 2 (cardiac, pulmonary, esophageal)</p> <p><b>Acute Fever:</b> prioritize infections. Thoracic → pulmonary infx. Extrathoracic → cutaneous infx.</p> <p>W/ trauma: Think of pulmonary contusion</p> <p>Low energy for <b>1 month:</b> Subacute-chronic.</p> <p>Unremarkable physical exam except <b>irritability + subacute time course</b> → blood work will help us make progress. (look for nutritional deficiencies, IDA, hematological malignancies)</p> <p><b>Labs:</b> Neutrophilic leukocytosis, Hemolysis (elevated LDH, elevated indirect bilirubin, elevated reticulocytes, anemia)</p> <p><b>Hemolysis:</b> Is it an issue with the RBC or the environment (eg. Abs, microthrombi)</p> <p><b>DAT test:</b> immune mediated or non immune mediated hemolysis</p> <p>With the chest pain → think of sickle cell disease</p> <p>MCV should be elevated but it's normocytic so is there another process that is causing microcytic anemia?</p> <p>Liver enzymes slightly elevated (ALT &gt; AST): systemic issue with hepatobiliary system, like viral infections.</p> <p><b>Complications of sickle cell disease:</b> Acute chest syndrome, calculous cholecystitis, Asplenia (h influenzae, n meningitis, s pneumoniae)</p> <p>Final explanation: Trauma precipitated a vasocclusive crisis. Cytokine storm → fevers. Abnormal cells → elevated WBC</p>