



08/20/25 Morning Report with @CPSolvers

"One life, so many dreams" Case Presenter: Rabih Geha (@rabihmgeha) Case Discussants: Dr. Dan Restrepo (@)



<p>Scribing (Lera) CC: 46 M with hemoptysis HPI: Page from ER for admission. <i>Discharge 5 y ago:</i> admitted for severe hemoptysis, CXR and CT showed bleeding in lungs, some GGOs, no obvious bleeder / cavity / other lesion. Bleeding stopped by itself + inhaled TXA.</p> <p><i>Now:</i> Abruptly started coughing blood 2 days ago, towels used. 5-10 CCs noticed in the sputum cup.</p> <p>2 similar episodes, no problems in between.</p> <p>ROS: No fever / cough / malaise / weight loss / SOB.</p>	<p>Vitals: T, BP, HR, RR, Sat: all normal Exam: General exam: unremarkable HEENT, cardio, abdominal, neuro, MSK: unremarkable Pulm: isolated crackles in RUL</p> <p>Notable Labs & Imaging: Hematology: WBC: nl Hgb: nl Plt:nl MCV: nl Basic chemistry: normal UA: normal CXR: consolidation in RUL, no bony / mediastinal / pleural pathology</p> <p>CT with angio protocol: GGOs in RUL, no focal lesion or evidence of active extravasation.</p> <p>-> Rapid response called for massive hemoptysis -> rapid sequence intubation, "bad lung down", taken to ICU.</p>	<p>Problem Representation: A previously healthy 46 y/o man presented with isolated recurrent hemoptysis. Labs and imaging at the time and 5 years ago didn't reveal any extra hemoptysis clues. Patient underwent RUL lobectomy and was Dx w/ pulmonary Dieulafoy lesion.</p>	
<p>PMH: Healthy at bl, doesn't follow with healthcare care</p> <p>Meds: not on AC</p>	<p>Fam Hx: none relevant</p> <p>Social Hx: no limitation in activity on job</p> <p>Health-Related Behaviors: 1-2 drinks / week, social drinker</p>	<p>Bedside bronch: large amount of blood from RUL, no obvious endobronchial lesion or anomaly in other airways.</p> <p>Invasive angiogram: bronchial artery in RUL visualized as bleeding source -> embolized.</p> <p>-> Culprit artery rebleeds, patient taken to the OR -> RUL lobectomy done.</p> <p>Dx: pulmonary Dieulafoy lesion.</p>	<p>Teaching Points (Anmolpreet): I] Hemoptysis: Differentiate from epistaxis and hematemesis! <i>True hemoptysis:</i> anatomic approach -> tip of nose to alveoli (Parenchyma vs Vascular) eg: alveolar haemorrhage, pneumonia, pulmonary AVMs); <i>Common:</i> LRTI in the setting of coagulopathy/anticoagulants; vasculitis; lung malignancy Quantify the bleeding! Recurrence: painless episodic brisk hemoptysis [ask for history of nose bleed, look for vascular lesion in mouth, alveolitis is lower down in differential because won't develop that briskly] - need to evaluate because of recurrence II] Distant organ involvement: going through ROS: rash, ulcers in mouth, raynaud's! While evaluating labs and imaging: What am I looking for? Not What I am looking at? Urinalysis (more than just UTIs) would help, if the hematuria and proteinuria are seen there too, we would prioritise a systemic cause of hemoptysis III] Hemoptysis without anemia: does not necessarily reflect that he is not losing out a lot of blood. IV] Pulmonary CT angiogram protocol (CTPA): lighting up of right side of heart with pulmonary artery; can rule out pulmonary embolism Systemic CT angiogram protocol: wait a few seconds, then the contrast lights up the left side of the heart and we can visualise bronchial arteries. (Bronchial artery angiogram) V] Massive hemoptysis-management: Assess A-B-C, evaluate need for endotracheal intubation and secure the airway -> bronchial artery angiogram -> embolisation as needed. VI] Classic scenario: bronchiectasis (surprising with a negative CT), ?AVM, congenital defect VII] Bronchial artery bleed: is life-threatening!! Presents with hemoptysis; bleeding at systemic arterial pressure. VIII] Dieulafoy lesion: dilated submucosal vessel!!; classically seen in the stomach wall in the setting of gastrointestinal bleeding; Pulmonary dieulafoy lesion is exceedingly rare!! - primarily vascular abnormality, not an issue with parenchymal!!- presents with periodic bleeding. Pulmonary Dieulafoy is possibly underdiagnosed!</p>