



# 12/25/25 Morning Report with @CPSolvers

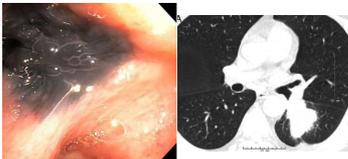


"One life, so many dreams" **Case Presenter:** Hee Mun (@) **Case Discussants:** Rabih (@) & Kuchal (@)  
<https://clinicalproblemsolving.com/present-a-case/>

Scribing (Magnus)  
**CC:** 45F with cough and intermittent hemoptysis for 8 weeks  
**HPI:** Productive cough for 3 months with intermittent blood-streaked sputum, low-grade fever and unintentional weight loss. Unilateral leg pain and swelling.  
**ROS:** No CP, SOB, night sweats, TB or occupational exposures, reflux, allergic rhinitis, hematuria, oral ulcers, joint pain, rash, recent immobilization, surgery or oral contraceptive use.

**Vitals:** T: 37.8 HR: 90 BP: 120/80 RR: 18 Sat: 94  
**Exam:** HEENT: No LAD CV: No murmur  
**Pulm:** Decreased breath sounds over left lower lung  
**Extremities/skin:** Unilateral leg swelling, warmth, tenderness

**Notable Labs & Imaging:**  
**Hematology:**  
WBC: nl Hgb: nl Plt: nl MCV: nl  
ESR and CRP mildly elevated  
HIV negative, Sputum TB negative  
UA normal



**Imaging:**  
LE US: DVT, CT-PE: No PE  
CXR: Non-homogenous opacity in left lower lung  
Bronch: Black mucosal pigmentation and black mucus plug obstructing left lower lung bronchus with airway narrowing. Plug was removed. Right bronchus normal. Interpreted as bronchial anthracofibrosis.  
CT-chest: Left lower lung 4 cm consolidation and tree-in-bud micronodules. Ipsilateral hilar/mediastinal LAD.  
  
Denied exposure to mining, soot, biomass fuels, wood smoke.  
  
Workup: CBNAAT/GX, AFB smear negative. EBB: pigmented macrophages, no granulomas/malignancy detected. EBUS-FNA negative for malignancy. BAL MTB positive.  
TB treatment was initiated and cough/hemoptysis resolved. Repeat CT showed marked regression of consolidation and LAD.  
**Dx: Endobronchial TB with bronchial anthracofibrosis**

**Problem Representation:**  
45 year old previously healthy woman presented with cough and hemoptysis for 8 weeks. Found to have a black mucosal pigmentation on bronchoscopy, left lower lung consolidation and tree-in-bud micronodules on CT, and ultimately diagnosed with endobronchial TB with bronchial anthracofibrosis.

**Teaching Points (Saketh)**

- 1) Framework for approaching Hemoptysis:** 4Ds: Duration, Dyspnea, Drugs, Distant Symptoms  
If one reframes hemoptysis as part of a systemic disease: evaluate all other symptoms (fever, weight loss, etc) independently to make progress.  
- Proceed to CT Chest with contrast (unless concern for severe Heart Failure or Pulmonary Renal syndrome)
- 2) Hemoptysis and Imaging (Parenchymal vs Vascular)-** Most Parenchymal Disorders are focal (like lung masses) - Vascular Disorders (Capillary and venous disorders usually present in a diffuse manner, Arterial involvement presents focally)  
-Small distal PE: Can have a negative CTPE and stable hemodynamics.
- 3) Hemoptysis Equivocal GGOs: Endobronchial Lesions vs Migratory Helminths**  
- Endobronchial Lesion: Base Rate - Infections, Malignancy (Respiratory: SCC, Carcinoid, Adenoid vs Metastatic Lesions)
- 4) Chest CT: Look for whether it is related to the vessels or airways**  
-Diffuse Tree in bud opacities: rule out Atypical Mycobacterial Infections, Fungal Infections
- 5)Sputum AFB: Low sensitivity for endobronchial TB. Move to GeneXpert**

**PMH:**  
None  
  
**Med:**  
None

**Fam Hx:**  
No lung cancer  
**Social Hx:**  
From south-east Asia  
**Health-Related Behaviors:**  
No smoking  
**Allergies:**  
None