



# 12/04/24 Morning Report with @CPSolvers



“One life, so many dreams” Case Presenter: Razan ( ) Case Discussants: Steph (@), Zaveen (@sargsyanz)

**CC:** Single 24-year-old female patient who’s a known case of SLE was referred to our hospital as a case of **chest infection**.

**HPI:** The patient was in her usual state of health until 3/9/2024 when the patient presented to with a complaint of headache, recurrent vomiting and blurry vision. She was admitted for pain management and further diagnostic imaging evaluation. The patient underwent brain and whole spine MRI, which revealed “new brain SLE lesion”2 weeks later, the patient was supposed to be discharged, but she developed **shortness of breath, with new onset dry cough**. The patient’s SOB was brought on at rest, and lying supine(+ orthopnea). She also complained of PND. **The SOB was associated with an intermittent central chest pain, that Was described as “clenching”**. The pain did not radiate anywhere and **was exacerbated by lying supine**. There are no relieving factors. The patient has also developed spikes of fever over the past week, documented at 38 degrees. The fever was occasionally associated with bouts of chills. The fever was relieved by paracetamol according to the patient.The patient’s history is positive for gradual inability to walk over the past 4 months.

**ROS:** The patient denied any abdominal pain, nausea, vomiting, diarrhea, constipation, joint pain, joint swelling, flank pain, dysuria, frequency, skin rash, pruritus, headache, blurry vision, paresthesia, numbness, palpitations

**PMH:** SLE  
APLS  
Lupus nephritis  
Kidney biopsy in 2016-  
membranous nephropathy

**Meds:**  
Hydroxychloroquine 200  
mg/d  
Prednisolone 20mg/daily  
Calcium carbonate  
Aspirin, Clexane

**Fam Hx:**  
  
**Soc Hx:**  
  
**Health-Related Behaviors:**  
Non smoker  
  
**Allergies:**

**Vitals:** T: 37.3 BP:137/74 RR: 17 Sat: 97% on O2 mask HR: 109  
**Exam:** Gen: conscious alert oriented, sitting upward in bed  
**HEENT:** bilateral icteric eyes  
**CV:** normal S1 S2  
**Pulm:** decrease air entry, more over the left lung  
**Abd:** soft lax  
**Neuro:** left sided weakness , foleys placed, bedridden  
**MSK:** bilateral pitting edema +1, bilateral ecchymosis on her arms and legs

**Notable Labs & Imaging:**  
**Hematology:** WBC: 13.1 (neutro 92.9) Hgb: 9.5 Plt: 267  
**Chemistry** CRP 277 ; ESR 105; LDH ; Bili 2.7 D-bil 1.5; ALP 116 ggt 84 AST 26 ALT 32  
PT, PTT nl **Urinalysis:** proteinuria +3 baseline , + RBC, 628 WBC

**Imaging: CT Chest:** Large left sided Pneumothorax with collapse  
**Chest x-ray:** Bilateral chest infiltrates, more on the right with bilateral cavitary lesions. Suspicion for left sided pneumothorax. Collapse consolidation of the left lung. Mild right sided pneumothorax. Multiple variable sized solid and cavitary lesions associated with surrounding parenchyma ground glass opacities are seen scattered in both lung fields with feeding vessel sign , the largest seen in the anterior segment of the right upper lobe measuring about 2.9 X 2.2 cm concerning for septic pulmonary emboli , differentials include fungal infection.  
→ Thoracic surgery team consulted and left sided chest tube was placed

**Brain CT:** Left side stroke, no abnormalities.  
Started on : Meropenem/ Teicoplanin /Hydrocortisone /Hydroxychloroquine  
Blood cultures, urine cultures: Negative. No sputum  
New CT : Low attenuation area in the right kidney, subcapsular collection suspicious for abscess  
More cultures were done and came negative  
→ Add: Meropenem, Tazocin and Voriconazole. The patient had no more fever  
**ECG:** Sinus tachycardia **Echo:** Normal **TTE:** Couldn’t not be done  
Left sided Pneumothorax is expanded, left sided emphysema. R sided expanded too.  
→ The patient improved in the pneumothorax, the cavitation didn’t improve.  
Suspicious septic emboli or fungal infection.  
Stopped all antibiotics, patient is only on Voriconazole. The patient is well, no longer complain chest pain.  
**Next step: Biopsy**  
**Dx: Unknown (so far)**

**Problem Representation:** Young women with SLE and APLS presents with chest pain, fever and SOB. On imaging presented with Pneumothorax and kidney abscess. Cultures were negative. The patient improved with antibiotics and antifungal therapy.

**Teaching Points: (Masah)**  
**Young women, PMH SLE, developed HA :**Inflammatory, Secondary complications (bleeding, thrombosis), recent treatments, complications of treatments.

**Chest pain** → r/o life threatening causes: 4+2+2 (Cardiac: ACS, Aortic dissection, Tamponade, Takotsubo Cardiomyopathy, Pulmonary: Pulm Embolism, pneumothorax, Esophageal: Rupture, Impaction) → CXR, EKG, Troponin

**Positional** Chest pain → pericarditis, serositis

Signs of bleeding, Hyperacute Resp failure cause → alveolar hemorrhage.

**Cavitating organisms with septic emboli:** MRSA, Pseudomonas, Klebsiella, PJP, Aspergillus, Histoplasma, Cryptococcus

**Kidney abscess that’s culture negative:** Tb, Melioidosis, mycoplasma, aspergillosis, infarct, hemorrhage.

**Melioidosis:** can mimic granulomatous disease & cause intra abdominal abscesses.