



# 03/17/21 Morning Report with @CPSolvers



**Case Presenter:** Priyanka Athavale (@pri\_athavale) **Case Discussants:** Sherry Chao (@Shark8078Chao) and Sonia Silinsky Krupnikova

**CC:** Chest pain

**HPI:** 62 M p/w chest pain. Pt reports pleuritic chest pain and cough 3 weeks; CXR showed infiltrates Tx w/ levofloxacin w/ no improvement.

Pt reports 30lb weight loss over 6 mo, multiple episodes of otitis media and R facial palsy that improved w/ a 5 day course of steroids.

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**PMH:**  
No significant history

**Fam Hx:**  
No significant history

**Soc Hx:**  
No significant history

**Meds:**  
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**Health-Related Behaviors:**  
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**Allergies:**  
No known allergies

**Vitals:** T: afebrile HR: 89 BP: 148/81 RR: 18 SpO<sub>2</sub>: 94% RA

**Exam:** Appeared w/ R facial droop

**Systemic**

**Pulm:** clear to auscultation

**CV:** regular rate rhythm

**Abdomen:** no tenderness/ palpable organomegaly

**Neuro:** no FND

**Extremities and joints:** b/l MCP joints swelling R > L, no skin rash

**Notable Labs & Imaging:**

**Hematology:**  
WBC: 10.6 Hb: 11.8 Plt: 262

**Chemistry:** WNL  
Iron 24 Ferritin 865  
Urinalysis: 6-8 RBC

**Imaging:**  
CT chest: multiple b/l pulmonary lung nodules, some w/ cavitation

RF -ve, ACCP -ve ANA -ve complement WNL c-ANCA 1: 40 p-ANCA <1:40  
CT sinuses: Severe opacification of mastoid air cells on R > L, partial opacification of middle air cavities  
Anti-PR3 ab moderately-strongly +; anti-MPO ab -ve

Lung nodule biopsy: polymorph inflamm - neutrophils, eos, histiocytes, plasma cells and scattered giant cells

Dx: GPA

**Problem Representation:** Elderly male p/w subacute pleuritic chest pain, pulmonary nodules w/ chronic weight loss, multiple episodes of otitis media and u/l facial palsy

**Teaching Points (Priyanka):**

- Chest pain:** 4+2+2- first rule out emergent causes: Cardiac (ACS, AD, tamponade, takusubo), Pulm (PE, PTX), esophageal rupture (rupture, impaction) → If negative- use an anatomic approach: Superficial (MSK, skin, nervous system); Visceral (GI- spasm, reflux, ulcers; cardiac- HF, AS; pulm- PNA, hernia)
- Localizing the lesion x Time course:** subacute/ chronic- pleuritic, MSK, inflammatory, neoplasm, chronic infection, meds/drugs, autoimmune
- Layering on the context clues:**
  - Facial nerve palsy:** mononeuritis, polyneuritis, central nervous lesion → vasculitis vs lupus-related dz (variable vessel vasculitis vs primary vasculitis, RA, Sjogrens, sarcoidosis); infectious (HSV, TB, Lyme dz); tumor/ mass effect
  - Recurrent OM: can locally involve CN7 nucleus, causing Bells Palsy
  - MCP Joint Pain:** autoimmune inflammatory process (ie: RA, vasculitis), 2/3rd MCPs non specific- pseudogout, endocrine, trauma, secondary OA, seronegative spondyloarthropathies
- Pulmonary Renal syndromes:** caused by GPA, EGPA, MPA
- Syndrome of chronic joint pain, pleuritic chest pain cavitory lung lesions**→ consider atypical mycobacterial infectious (fungal, TB), malignancy (primary lung cancer, metastases), rheumatologic (vasculitis, GPA), sarcoid; r/o drug induced; septic emboli, malignancy
- Test characteristics:** c-ANCA with PR3- Ab-> highly specific for GPA → check out 2017 EULAR/ACR classification system for diagnostic criteria