



02/3/25 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Mukund Case Discussants: Vinicius (@vinibarzon), Jeffrey Shen

CC: hospital transfer
HPI:
 40 year old with history of **scleroderma** presented with **nausea, vomiting and food intolerance** to primary care clinic, sent to ED after anemia to **6.4** on POC **Hgb** test. At hospital, **Cr 6.3** and admitted for workup of new renal failure with biopsy done and results to be shared later. RRT initiated at this admission. Readmitted **2 months later** with **Enterobacter pneumonia** requiring intubation course complicated by **flash pulm edema**. Now extubated and much improved. Echo with **EF newly low to 20%**
ROS: no cough, reflux, digestive, joint pain, sweating, photosensitivity, rashes or oral ulcers

PMH:
 Scleroderma (2003)
 Raynaud's (2004)

Meds:
 Losartan

Fam Hx: non-contributory

Soc Hx:
 Strawberry picker in California
 3 children

Health-Related Behaviors:
 no smoking, drinking or other drugs

Allergies: none

Vitals: T: 98°F BP: 87/58 RR: 16 HR: 80 Sat: 100% on RA
Exam: Gen: **severely cachectic and exhausted**
HEENT: thin skin around mouth, no salivary gland hypertrophy, no LAD, no ulcers
CV: RRR, no murmurs
Pulm: clear to auscultation
MSK: some **thickening of skin distal to PIP joint with prominent fingernail clubbing**, No joint warmth or effusion in any joint. Proximal muscle strength 5/5 bilaterally

Notable Labs & Imaging:
Hematology:
 WBC: 7.5 Hgb: 9.8 Plt:390 Hct:30 MCV:90 RDW 16.3 (high)
 Ferritin 1200
Chemistry
 Na: 137 K:4.7 Cr:5.6 BUN:44 Ca: 9.7 Ph 6.5 (high): Mg: 2.5 Glu: 75 Cl:96 HCO3:23
 CK:14 Troponin: nl, Haptoglobin: 255 (high), LDH:nl
 ANA: **1:80 (diffuse pattern)** p-ANCA: **>1:600** c-ANCA: neg
 Anti-centromere: negative, anti-RNA pol III: **55** (upper limit 20), anti-scl 70: neg, Anti-dsDNA: neg Anti-Sm: neg Anti-RNP: neg
 C3:nl, C4:**47.7** (high)
Imaging:
Echo: moderate **eccentric LV hypertrophy with EF 55-60%**. Bicuspid aortic valve. Normal PASP and RA pressure
Renal biopsy: 90% global sclerosis of glomeruli with significant interstitial inflammation composed predominantly of lymphocytes and occasional eosinophils, no evidence of GN, intra-or extra capillary thrombosis

Dx : unclear

Problem Representation:
40 year old female with history of scleroderma who was transferred to the hospital after she was noted to have anemia and renal failure.

Teaching Points(Hee Mun):
Emergency issue: SRC (HTN, renal failure, oliguria, edema, hematuria, proteinuria) must be treated first before considering DDX;

SSc: skin thickening, GI dysmotility, hemolysis, TMA (schistocytes, low haptoglobin, LDH, indirect bilirubin).GI N/V can be due to VGE(, anemia from bleeding, or SSc (with GI dysmotility TMA and hemolysis).HF can be caused by stress-induced cardiomyopathy or HTN, leading to FPE, treated with ACEi.

Physical exam findings(scleroderma): include telangiectasia, digital ulcers, and skin thickening or fibrosis.
 In SRC, hypotension is not typical; skin thickening at DIP may be hard to notice, and pinching the skin is impossible; clubbing may indicate pulm manifestations due to pulm HTN (ILD).Lung cancer /Drug-induced conditions that can mimic scleroderma renal crisis

Lab: TTP vs TMA: High Cr consistent with ARF; AHF BAV (AS)Recovering from SRC or a different source of infection causing pt symptom
ANA: 1:80 (diffuse pattern), p-ANCA: >1:600; ANCA vasculitis or ANCA can be false positive; malignancy, **ANCA vasculitis mimic:** TB, aspergillosis, endocarditis (e.g. bartonella)->UA casts and renal biopsy: ANCA (GM) vs SRC (TMA), //Drug-induced vasculitis (e.g., hydralazine) can cause ANCA positivity and resemble vasculitis/Haptoglobin high and LDH normal suggests no hemolysis.
Renal Biopsy: Interstitial nephritis can be caused by drugs (NSAIDs, antibiotics), malignancy, sarcoidosis, and autoimmune diseases.->Monitor and observe to determine what is active or not, while keeping a broad differential.