

04/22/21 Morning Report with @CPSolvers



Case Presenter: Alec Rezigh(@ABRezMed) Case Discussants: Simone Vais (@SimoneVais) and Rabih Geha (@rabihmgeha)

CC: Dyspnea on exertion

HPI: 60F dyspnea w/ exertion. She reports 1 mo admission for COVID pneumonia req high flow nasal cannula, Tx long period steroids, discharged to rehab facility on couple Lt of

O2. oxygen. No O2 needed on discharge from rehab facility. Developed dyspnea at home while working

around, SpO2 at home 80%. Cough productive of white sputum since 1 mo

no hemoptysis, no change. B/L LE edema +

No fever, chills, rash, diarrhea, orthopnea

stenosis (Dx

ECHO 2yrs)

Azathioprine

T2DM

PMH: Fam Hx: CAD - stents (5 Nothing significant

vears ago) Al hepatitis, Soc Hx:

No recent travel, no sick RA contacts, not currently HTN Mild aortic working

> **Health-Related Behaviors:**

Doesn't drink Meds: alcohol/smoke Prednisone,

> Allergies: No known allergies

Vitals: T: afebrile HR:93 BP: 107/74 RR:20 SpO₃: 98% RA at rest \rightarrow 84% ambulation \rightarrow 90% 2 It **BMI** 40

Exam:

Gen: Awake, no distress,

HEENT: difficult to assess JVD w/ habitus

CV: Regular rate and rhythm

Pulm: Clear to auscultation, no wheezes Abd: Soft, non distended no stigmata of cirrhosis

Neuro: No FND

Extremities/Skin: No rashes, trace LE edema

Notable Labs & Imaging:

Hematology:

WBC: 7.8 Hgb: 9.8 MCV 96 Plt: 165

Chemistry: Normal

SARS-CoV-2 PCR: negative BNP: 46 (<100) D-Dimer 6.8 (0.3-0.5) LDH 350 (<270)

UA: No hematuria/proteinuria

Imaging:

EKG: Sinus tachycardia

CXR: Interstitial pulmonary edema, haziness in both LL -

atelectasis/dev inf

ECHO:EF 70% - Mild diastolic dysfunction, AS mild and stable compared to prior ECHO, no valvular ab, RV size function

normal, IVC 5mmHg (0-5)

CT PE: No PE, diffuse GGO, interlobar septal thickening (sequela of COVID inf) w/ superimposed interstitial edema PJP sputum - +

Dx: Pneumocystis Pneumonia

Problem Representation: Elderly female w/ AI hepatitis, RA, cardiovascular risk factors and recent h/o COVID-19 pneumonia p/w subacute dyspnea on exertion, diffuse lung parenchymal GGO, anemia, elevated D-dimer and LDH

Teaching Points (Rafa):

60F W/ DYSPNEA ON EXERTION

Most common etiologies - heart (HF/ valvular abnormalities like aortic stenosis) / lung dysfunction (PNA, pulmonary HTN)

Less commonly - anemia, acidosis, neuromuscular weakness, obesity (obesity hypoventilation syndrome), hyperthyroidism

EDEMA

Heart (could explain the dyspnea, especially w/ the ACS history) / kidney (nephrotic syndrome)/ liver (cirrhosis) / lymphatic obstruction

(malignancy / congenital problems / infections (filariasis) PE / history: important to distinguish the etiology

RA

Symmetric joint involvement - small joints / spares DIP Systemic symptoms - fever, weight loss, anemia

Extra articular manifestations - Eg, lung

Pulmonary nodules + ILD (more common in men, positive RF, undertreated patients) + caplan syndrome + pleuritis + tracheal stenosis-

everything but pulmonary HTN

HYPOXEMIA

Make sure to rule out false hypoxemia like methemoglobinemia Alveoli (singing - filled w/ blood, pus,collapsed)/ vasculature (pulmonary

HTN) / parenchyma (ILD) Worsening w/ exertion - problem more likely to be on the vasculature especially if the alveoli are not singing!

• GGO + infection - post-COVID, PJP pneumonia, viral infections everything under the sun but pyogenic bacteria

PJP pneumonia especially in the setting of steroid use / immunocompromised patients / and elevated LDH