



# 02/04/21 Morning Report with @CPSolvers



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**CC:** Shortness of breath (SOB)

**HPI:** 46yM. 4 months ago patient initiated w SOB w minimal activity, after some weeks started having SOB at rest. Was dx with pneumonia and was treated w/no improvement.

1 month ago initiated w/cough + hemoptysis.

Presented to ED after 2 episodes tonic-clonic seizures.

**ROS:** watery stools w/blood 2x/day past 2 weeks and leg edema.

**PMH:** None

**Fam Hx:**

**Soc Hx:** Lives in Minas Gerais, Brazil. Not currently working - worked as salesman.

**Meds:** None.

**Health-Related Behaviors:** Consumes a lot of alcohol during the weekends. Has smoked 2-3 cigarettes every day last 7 years. Sporadic unprotected sexual intercourse.

**Allergies:** None.

**Vitals:** T: afebrile HR:110 BP:150/90 RR:36 SpO<sub>2</sub>: 86% 2L Nasal cannula.

**Exam:**

**Gen:** ill appearing. Anicteric. Cyanotic.

**HEENT:** normal CV: tachycardic.

**Pulm:** Signs of respiratory distress. Reduced breath sounds in R hemithorax. Rest was normal.

**Abd:** Non tender to palpation. Palpable mass in umbilical region, hepatomegaly palpable 4 cm under R costal margin. No splenomegaly.

**Neuro:** Normal.

**Extremities/Skin:** Mild b/l leg edema.

**Notable Labs & Imaging:**

**Hematology:** WBC:18,000 (N 87% L 7% E 1%) Hgb:12 Plt:267

**Chemistry:** Na: 138 K:3.2 Cl:102 BUN:nl Cr:nl AST:45 ALT:28 Alk-P:172 GGT 125 T. Bili:nl CRP: 10

HIV neg. HBV not immune. HCV neg. VDRL neg.

**Imaging:** Head CT: NI.

Chest Ct: symmetric interstitial lung changes predominantly R side. Small pleural effusion on R side. Pericardial effusion. Multiple mediastinal lymph node enlargement. Hepatic focal lesions, mesenteric lymph node enlargement. Mass in 1 adrenal gland. Hepatic steatosis.

Cervical Lymph node biopsy: metastatic carcinoma. Immunohistochemistry: lung primary site.

Cultures of pleural effusion: neg for TB, fungi.

Pt evolved to respiratory distress had to be intubated. EKG showed electrical alterations. Echo had pericardial effusion w/restriction of diastolic filling. A pericardiocentesis was performed. Evolved to cardiac arrest, CPR unsuccessful.

**Final DX: Metastatic lung carcinoma**

**Problem Representation:** A 46yM w/PMHx of smoking p/w a 4m history of SOB, hemoptysis and tonic clonic seizures. PE notable for respiratory distress and periumbilical mass. Further examination revealed b/l interstitial lung changes, multiple lymph node enlargement, pleural and pericardial effusion and an adrenal gland mass. Pt. died after a respiratory distress and obstructive shock.

**Teaching Points (Rafa):**

- **APPROACHING MIDDLE-AGED PATIENT W/ SOB + HEMOPTYSIS + SEIZURE + DIARRHEA + EDEMA**  
Many systems involved - look for a common denominator (edema + cough ->lungs) or pathology affecting multiple places like vasculitis, metastasis - Hemoptysis - narrow Ddx - could be a good place to start with - infection (TB), tumor, vasculitis, coagulation disorders  
 Lung parenchyma abnormalities is the main cause  
 Outside the lungs: GI bleeding
- **SIGNIFICANT SEXUAL HISTORY**  
 Always check HIV status + CD4 count! It can broad your Ddx.
- **EDEMA** : extravasation of fluid into interstitial space  
Liver (hypoalbuminemia - loss of oncotic pressure) / heart (increased hydrostatic pressure) / kidney disorders (nephrotic syndrome leading to proteinuria - loss of oncotic pressure)  
 Cirrhosis could be a possibility d/t to the health-related behaviors  
 Look up - jaundice? Volume overload?
- **HEPATOMEGALY**  
 Alcoholic hepatitis, congestion (portal HTN), infections (schistosomiasis) , liver cancer / metastasis, autoimmune diseases (primary biliary cholangitis)
- **LYMPHADENOPATHY** - localized / diffuse  
 Diffuse: infection (mononucleosis like syndrome, syphilis TB / endemic mycoses) + malignancy. Less likely, autoimmune like sarcoidosis
- **UNILATERAL ADRENAL GLAND MASS**- adrenal carcinoma - could explain the leukocytosis (cortisol inhibits neutrophils migration)
- **UNFORTUNATELY THE PATIENT DID NOT RECOVER** - always try to learn from it so we can give a better treatment/ care for the next patient