

11/27/23 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Dr. Laura Granados Case Discussants: Dr. Basak Coruh (@basakcoruhUW) & Dr. Mira John (@miraonthewallMD)

CC: 52 yo woman SOB, acute diarrhea, failure to thrive. HPI: Past several weeks- SOB and orthopnea

-outside ED- bacterial pneumonia txd w abx.

symptoms have not resolved. She presented to the OP and was noted to be very sick. Went to the ED. SOB on exertion and had a chronic cough

; she has been having non bloody diarrhea and multiple bowel movements (5/day). No abdominal distension, rashes, facial flushing.

Symptom onset is not immediately after initiation of polyamine agent, Jan 2022: First immunotx. Last cure April 2022, Last received immunotherapy 1 year ago

Fam Hx: No notable

Soc Hx: Hasn't worked

for many years; had a

desk job previously; no

No notable occupational

exposure / exposure to

travel history; no

homelessness, not

Health-Related

Does not drink or

Behaviors:

smoke

incarcerated.

pets

family history

PMH: Malignant mesothelioma of the abdomen

pleural bx neg. Meds:

Several courses of chemotherapy (ipilimumab and

nivolumab. carboplatin. paclitaxel. bevacizumab.On a 'polyamine mimic' currently. Bactrim Acyclovir

Statin

Allergies: none

fluids) RR: -. spO2: high 80s corrects with 4L nasal cannula. Exam: Gen: Ill appearing and thin.

HEENT: JVP - elevated CV: Tachycardic, Up to 120s, No abn, Heart sounds,

Pulm: No wheezing, crackles ++

Abd: Soft, nontender and nondistended

Extremities/skin: 3+ LE edema bilaterally. No skin rash. Well perfused, warm.

Vitals: T: 38.3°C HR: 120/min BP: 87/68 (MAPs below 60's, none-responsive to

Notable Labs & Imaging:

Hematology: WBC: 5k Hgb: 8.4 (baseline) Plt: 121

Chemistry:

Na:128 K:4.5 Cl: 100 BUN: Cr:1.6 (baseline 0.8) glucose: 90s, HCO3: 22

AST: normal ALT: normal Alk-P: normal Albumin: Troponin- 1 (rechecked 3 hours later - 9); peaked at 15 BNP - 500s

Lactate - 1.5 Viral respiratory panel - negative; Infectious panel and blood cultures: Negative

Cytology: Abnormal cells (consistent with mesothelioma)

HIV neg. Imaging:

EKG: Non specific ST-T changes (diffuse), no signs of ACS.

CT: BL pleural effusions & New solid mass (prior imaging: nodules with ground glass opacities)

Echocardiogram: Dilated right ventricle (POCUS): LV - barely moving (compared to prev ECHO one year ago - which was normal); RV dilation and systolic dysfunction of RV: LV - EF - 15%, no valvular abnormalities, right atrial pressure - 5-10, PASP - 45mm Hg, small

pericardial effusion Cardiac MRI: Severely reduced systolic function, right ventricular dilation, subepicardial enhancement, myocardial edema

Dx: Myocarditis 2º to study drug (checkpoint inhibitor)

Problem Representation: 52 voF w/ PMH of abdominal

mesothelioma s/p immunotherapy and chemotherapy presented with chronic diarrhea, SOB, and symptoms of HF

Teaching Points (Tansu):

Initial additional Qs: CP, SOB at rest, diarrhea bloody/watery, Wheezing, flushing, abd dist? Med hx. Check immune status. Time course: chronic

diarrhea (e.g. in HIV pts), chronic cough, acute SOB, Unifying dx's: Inflammatory, infectious, malignancy, rheumatologic? Malignancy hx → Chronicity of symptoms: Is it related to cancer, cancer

tx, or an infection 2/2 to cancer directed tx.?

SOB + cough → Immunotx side effect: Lung tox., cardiotox.. Exposures, ppx for opportunistic infs, med adherence? Remember undiagnosed asthma, GERD for chronic cough, Good exam & imaging (esp in immunocompromised), add viral in immuneX host to fungus, parasites.

Shock index: HR/SBP (normal: 0.5-0.7, >1 concerning). Fever → Infections, inflammation (organizing pne) // Edema + JVP +

orthopnea → Do bedside echo // High BNP + Trop uptrending → DDX: Toxicity from study drug (not likely 2/2 time course). Myocarditis or primary cardiac event? Assessment of shock: Doubled Cr (end organ

hypoperf), cardiogenic vs. distributive (fever). In PCCM → Dx + Tx simultaneously → blood, sputum cx, enteric pathogen panel, start on broad spect. abx., check HIV status.

Nodules: Size, distribution (hematogenous vs. lymph), location (upper vs. lower), nocardia, MTB, rhodococcus, GPA, rheumatoid.

DDX (Randomly distributed dense nodules): Septic emboli, malignancy (though lung mets are smooth & circular), fungus (halo sign: dense

opacity surrounding GGO), how long has it been there? New GGOs in the setting of malignancy; infection, fluid, malignant progression, tx side effects, non-infectious etios. → Cover for Bacterial pne.+ hemodynamic

support + family meeting for the grim prognosis. Weigh the benefit of high dose steroids for study drug side effects vs. possibility of infectious etiology in the patient.