



03/09/24 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Shriya and Anuj from LSU Health (@) Case Discussants: Jack(@), Ibrahim (@) and Shreyas (@)

CC: Coffee ground emesis of 1 day, diarrhea of 4 weeks

HPI: 48 yo female - 5 episodes of coffee ground emesis, diarrhea 4-6 yellowish watery associated with nausea and vomiting, in general feels weak and lethargic

Diarrhea did not correlate with food intake, no diurnal variation
- No prior similar complaints

ROS (-): Chest pain, SOB, DOE, sensory/motor weakness, fever, chills, dark stools, frank blood in the stool

2 visits outside: 1st diagnosed w/ enterocolitis clinically and on imaging, managed conservatively; 2nd admission (similar complaints) - diagnosed w/ biliary dyskinesia - managed w/ laparoscopic cholecystectomy

PMH:
Cervical cancer (post-hysterectomy)
Hypothyroidism
AHT
DVT
Asthma
DMT
Meds:
Amlodipin
Losartan
Apixaban
Levothyroxine

Fam Hx:
Not significant
Soc Hx:
Denies smoking, alcohol or drugs
Health-Related Behaviors:
No travel, sick contacts, eating outside
Allergies:
Sulfonamide
Hydrochloride (?)

Vitals: T: afebrile HR: 100-110 BP: 100/60 RR: 18 SO2: 98%

Exam: Gen: ill appearing, in acute distress

HEENT: dry mucous membranes, normal extraocular movements, LAD, no thyromegaly

CV: S1S2 normal, no murmurs, pulse and rhythm regular

Pulm: Clear to auscultation bilaterally, no additional sounds

Abd: Diffuse tenderness on palpation, no rigidity, no hepatosplenomegaly, no guarding

Neuro: wnl

Extremities/skin: No rash, edema, lesions

Notable Labs & Imaging:

Hematology: WBC: 9.6 Hgb: 15.1 Plt: 305

Chemistry: Na:138 K: 3.1 Cl:113 HCO3:13 BUN: 50s Cr:2.2 (baseline 1), Ca: 7.9 (corrected normal) Albumin: 2.2; LFTs normal
Lactate 1.01, Lipase 26, CRP 21.6

OSH labs: C Diff neg, GI Biofire neg, CRP 1.24, Fecal Calprotectin 106 (borderline elevated)

Imaging: EKG: Sinus tachycardia

CXR Abd./Pelvis: fluid within the small bowel, dilated colon (measuring up to 7.6 cm) with mural thickening

Oncologist: Pembrolizumab, last dose 1-2 weeks prior

Stool studies: Calprotectin 668, C Diff neg, CMV IgG pos.

Gastroscopy: Esophagitis, diffuse gastritis, erythematous duodenitis

Colonoscopy: Severe right-sided colitis, mild left-sided colitis, no ulcerations

CMV PCR neg, HSV PCR neg; IgM CMV negative

EGD, Colonoscopy: Neg for H. pylori, increased lamina propria, apoptosis in the crypts; cryptitis, lymphoplasmacytic infiltrates, no inclusion bodies

Absence of ulcerations, diffuse → Empirical prednisone, prompt improvement (Clinically and lab inflammation)

Dx: Immune Checkpoint Inhibitor related Colitis and Gastritis

Problem Representation: 48 year old female with history of post-hysterectomy cervical cancer on pembrolizumab, hypothyroidism, DM presented with acute onset of coffee ground emesis and subacute-chronic watery diarrhea, diffuse esophagitis and gastroenterocolitis w/o ulcerations on EGD/colonoscopy found to have immune checkpoint inhibitor related colitis and gastritis.

Teaching Points (Promise):

- Important to prioritize problems: acute onset of coffee ground emesis is prioritized over subacute - chronic onset of watery diarrhea
- Approach to coffee ground emesis: upper GIB (esophagitis, EV, MW-tear or Boerrhve, PUD, gastritis, PHG/GAVE, angiodysplasias, AVMs)
- Approach to diarrhea: time course - acute almost always gastroenteritis vs subacute ddx widens to non-infectious causes including IBD, gastrinoma, endocrine tumors, toxins
 - Infection, inflammatory, ischemia, infiltrative
- Female with autoimmune disease at risk of another autoimmune disease (thyroid & celiac disease)
- Elevation in BUN/Cr c/f prerenal azotemia and volume loss.
- Fecal calprotectin = ESR/CRP of stool. Indicates inflammation in GI tract. not necessarily dx of IBD.
- h/o cervical cancer → immune status? On chemotherapy?
- If pt on immunotherapy + diarrhea, ddx include infectious causes 2/2 immunodeficiency (ex. CMV, EBV, HSV, HIV), but also diarrhea from immunotherapy (IRAEs - immune-related adverse events)
 - Common IRAEs: autoimm hepatitis, colitis, pneumonitis, DM
 - Path will distinguish CMV vs IRAEs
- Pembrolizumab: PD-1 inhibitor can cause immune-mediated gastroenterocolitis, nephrotic syndrome, hypothyroidism