

## 6/19/23 Rafael Medina Subspecialty VMR with @CPSolvers

"One life, so many dreams" Case Presenter: Daniel Motta-Calderon (@dmottacalderon) Case Discussants: Kevin Hageman (@Factor\_XII)



<ul> <li>CC: 79 yo man with AMS and rectal bleeding</li> <li>HPI: Transferred to the hospital from an assisted living facility five days ago for urinary retention, AMS, hematuria. Patient also has bruises and epistaxis.</li> <li>One day prior to admission, patient developed painful blisters in the lower extremities. Also developed painless hematochezia, slurred speech and left facial droop.</li> </ul>		Vitals: T: 35.1 HR: 65 BP: 133/111 RR: 15 SpO2: 99% on room air Weight: 270 pounds Gen: Only oriented to place; Pulm: normal resp excursion, speaking full sentences, no accessory muscle use; PEG tube. Extremities/skin: +1 edema,; fluid tense bullae (w/ serous fluid) about 7cm, no surrounding erythema, 1 bullae already popped; , 7x7cm ulcer on sacrum w/ granulation tissue, no signs of local inflammation or purulence, no oral involvement Genitals: oozing in urethra. Foley catheter in place Rectal: oozing blood from the rectum. Anal fissure Hematology & Chemistry WBC: 11.7 - Differential: Eosinophils: 3100 Hgb: 6.6 HCT: 33% Plt: 388; Hgb 6.6 -> improved to 7.7 after transfusion. CMP normal aPTT: 107 INR: 1.1 Repeat PTT: 95 PT 14.6 Fibrinogen: 383 TSH: 0.9 B12 high Imaging: CT/MRI of the head: normal	<ul> <li>Problem Representation: 79yM w/ chronic OM, p/w AMS, diffuse bleeding and tense bullae. Labs notable for eosinophilia, prolonged ptt. Mixing study suggestive of factor inhibitor.</li> <li>Teaching Points (Bettina): <ul> <li>AMS: Structural pathology in the CNS (hematoma), infection (pneumonia, bacteremia, UTI, PEG tube cellulitis), uremia (lower Gl bleed, renal failure), bleeding diathesis (coag disorder, thrombocytopenia, vitamin C deficiency), metabolic, toxins</li> <li>Blisters: Bullous pemphigoid (below BM on IF) vs. pemphigus vulgaris, vasculitis, edema bullae, IgA bullous dermatosis (vancomycin)</li> <li>Skin biopsy can be done</li> <li>BP can be associated with malignancy</li> <li>Hypothermia: Infectious process (check for hypotension + tachypnea)</li> <li>Dementia patients on AChE inhibitors (donepezil) can present with bradycardia so check medications</li> </ul> </li> <li>Bleeding: DIC, extrinsic vs. intrinsic vs. terminal pathway, platelet dysfunction, Gl bleeding, acquired coagulopathy</li> <li>Prolonged PTT: heparin/enoxaparin, lupus anticoagulant, vWF deficiency</li> </ul>
PMH: Dementia GERD HTN HLD Prostate CA Sacral Ulcers Osteomyelitis Diabetes Previous aspiration episodes	Meds: Vancomycin Memantin Mirtazapine Allopurinol Doxazosin Iron Soc Hx: retired veteran Allergies: NKDA	<ul> <li>Six hours after admission: patient was tachycardic and hypotensive. Massive transfusion protocol was started. Patient received fibrinogen and PCC.</li> <li>CT Abdomen/Pelvis: extensive colonic diverticulosis (no diverticulitis), Angiogram abdomen/pelvis: no contrast extravasation. Patient continued to deteriorate and received pressors</li> <li>Mixing study: Did not correct well, suggestive of inhibitor</li> <li>Red blood cell tagged scan: extravasation in the LLQ in the sigmoid colon</li> <li>Colonoscopy: multiple diverticula</li> <li>IgA/IgG/IgM anticardiolipin &amp; b2-microglobulin: negative Lupus anticoagulant: positive.</li> <li>Final Dx: Acquired factor VIII inhibitor.</li> </ul>	<ul> <li>(vWF carries FVIII), factor VIII inhibitor</li> <li>Do <u>mixing study</u> and see if it corrects</li> <li>Do tagged red cell scan if unsure about bleeding source</li> <li>CT angio can be done for hemodynamically unstable</li> <li>Coagulopathy will manifest as bleeding in a patient with risk factors (ie, diverticular bleed is usually controlled in a patient w/o coagulopathy)</li> <li>Prioritize stabilization of the patient while exploring underlying dx</li> <li>Eosinophilia: Hypereosinophilic syndrome with multiorgan infiltration, marrow process (myeloproliferative neoplasm with factor deficiencies), hypersensitivity reaction (allopurinol), parasitic</li> <li>Markedly elevated B12 → BM malignancy, hypereosinophilic syndrome</li> <li>Eosinophilia + bleeding → think of BM malignancy, autoimmune</li> <li>Acquired FVIII inhibitor: Rituximab + steroids, extremely rare (1-2 cases per million), can acquire remission in 2 months, associated with underlying</li> </ul>