

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)



 CC: 79 yo man with AMS and rectal bleeding HPI: Transferred to the hospital from an assisted living facility five days ago for urinary retention, AMS, hematuria. Patient also has bruises and epistaxis. One day prior to admission, patient developed painful blisters in the lower extremities. Also developed painless hematochezia, slurred speech and left facial droop. 		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	 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. Teaching Points (Bettina): 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 Blisters: Bullous pemphigoid (below BM on IF) vs. pemphigus vulgaris, vasculitis, edema bullae, IgA bullous dermatosis (vancomycin) Skin biopsy can be done BP can be associated with malignancy Hypothermia: Infectious process (check for hypotension + tachypnea) Dementia patients on AChE inhibitors (donepezil) can present with bradycardia so check medications Bleeding: DIC, extrinsic vs. intrinsic vs. terminal pathway, platelet dysfunction, Gl bleeding, acquired coagulopathy Prolonged PTT: heparin/enoxaparin, lupus anticoagulant, vWF deficiency
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	 Six hours after admission: patient was tachycardic and hypotensive. Massive transfusion protocol was started. Patient received fibrinogen and PCC. CT Abdomen/Pelvis: extensive colonic diverticulosis (no diverticulitis), Angiogram abdomen/pelvis: no contrast extravasation. Patient continued to deteriorate and received pressors Mixing study: Did not correct well, suggestive of inhibitor Red blood cell tagged scan: extravasation in the LLQ in the sigmoid colon Colonoscopy: multiple diverticula IgA/IgG/IgM anticardiolipin & b2-microglobulin: negative Lupus anticoagulant: positive. Final Dx: Acquired factor VIII inhibitor. 	 (vWF carries FVIII), factor VIII inhibitor Do <u>mixing study</u> and see if it corrects Do tagged red cell scan if unsure about bleeding source CT angio can be done for hemodynamically unstable Coagulopathy will manifest as bleeding in a patient with risk factors (ie, diverticular bleed is usually controlled in a patient w/o coagulopathy) Prioritize stabilization of the patient while exploring underlying dx Eosinophilia: Hypereosinophilic syndrome with multiorgan infiltration, marrow process (myeloproliferative neoplasm with factor deficiencies), hypersensitivity reaction (allopurinol), parasitic Markedly elevated B12 → BM malignancy, hypereosinophilic syndrome Eosinophilia + bleeding → think of BM malignancy, autoimmune Acquired FVIII inhibitor: Rituximab + steroids, extremely rare (1-2 cases per million), can acquire remission in 2 months, associated with underlying