

## 02/22/24 Morning Report with @CPSolvers



**"One life, so many dreams" Case Presenter**:Kara Lau(@ytk\_lau) **Case Discussants**:Rabih Geha(@rabihmgeha) and Ann Marie Kumfer(@AnnKumfer)

CC: 20 yr gentleman debilitating whole body pain HPI:		Vitals: T:36.8 HR: 109/min BP: 140/85 RR: 28/min SpO2: 100% RA Exam: Gen: Uncomfortable, in Pain. Rash(+)	<b>Problem Representation</b> : A 20 year old male presented with debilitating whole body pain and a subacute painful rash along with dyspnea, dysphagia found to have mildly elevated liver enzymes and CK levels and TIF1, p155 positive.
<b>3rd presentation</b> to urgent care 3 months ago- rash in arm(immediately after working) and improved with Steroid cream Next 3 months - burning pain in muscle, bone, skin severely affected - had to quit work and require family support		HEENT: eye redness, pain with EOM. No LAD. Increased Swallowing         CV: S1S2 no murmurs         Pulm: Chest clear. tachypneic         Abd: unremarkable         Neuro: Intact EOM(?dysconjugate gaze). No fatiguable upgaze.         Cranial Nerve,Sensory, coordination, reflexes- normal.         Neck flexion,deltoid, iliopsoas- %         Gait grossly normal.         Extremities/skin: Rash : neck, chest, belly, arms, knuckles- Painful to touch         Notable Labs & Imaging:         Hematology:         WBC:9.1 Hgb:16.2 Plt:245         Chemistry:         Na:138 K:3.4 Cl:104 HCO3:20 BUN: Cr:0.6 glucose: Ca: Mag:         AST: 86 ALT:55 Alk-P: CK 406 CRP 3.5 ESR 09 Lactate: Normal	Teaching Points (Anmolpreet):         I] Full body pain: generalised vs localised; Involvement of neuromuscular, skin, osteoarticular, vascular rather than specific system? Due to diffuse involvement.         Subjective? Characteristic-sharp,stabbing,burning?; onset, duration? Previous episode?         Associated symptoms? Young→genetics? Risky behaviour? Bad luck?         II] Dyspnea/ Dysphagia: diaphragm/ bulbar muscles involved?         Sensory Neuropathy?(burning):Polyneuropathy?check for reflexes; inspection of skin to look for any rash? Seems to be acute and progressive so, demyelinating processes like GBS, toxins, heavy metals(arsenic, thallium)         Stabilise before diagnosing (tachypneic)- protect airways, VBG         Issue with gas exchange/ problem with gas exchange centres? CO2 exchange issues(ventilatory issues?), panic attack, anemia?         III]Secretions in mouth→ excessive generation of secretions, problem clearing the secretions?         IV] Proximal muscle weakness + rash :- myopathy? Conjunctival ocular problem? Isolated or connected? Erythroderma? Scabies?         →Knuckles, neck localisation of rash makes us think of autoimmune myopathies like         Dermatomyositis; non fatigable weakness makes us drift away from MG;
Nausea, dizziness Now Dyspnea on presentation to ER - tachypneic ER: swallowing difficulty, diffuse redness head to toe. No Raynaud/nail changes			
PMH: Nil Meds:	Fam Hx: Nil Soc Hx: Health-Related Behaviors: No exposures	Dermatology: Biopsy - Interface dermatitis consistent with CTD. findings concerning for MCTD/Dermatomyositis. Hep , Aunt : negative ANA: 1:80 C4:31 C3: 81 dsDNA:31(Mild +), RNP, smith, SSB: negative, SSA: mildly elevated pH 7.52/CO2 29 Swallow: Abnormal, Concerning for severity Imaging: CT scan: Normal Myositis panel: Jo1,MDA-5,U1RNP: negative. TIF-1,p155: Positive	<ul> <li>V] Diaphragmatic weakness → move away everything out for movement → Mx Respiratory therapy-mean inspiratory force, how many numbers can be counted in single breath?</li> <li>VI] Elevated liver enzymes and CK: inflammatory myopathies; MCTD? Most inflammatory myopathies which are systemic, we need to look for manifestations in lungs and vessels aside from skin and muscles</li> <li>VII] Myopathy: weak muscles → EMG → proximal mostly suggest muscle ds We need Myositis panel, HIV, Vitamin levels, exposure history?</li> <li>VIII] Primary respiratory alkalosis: 2 Ps :- 1. pulmonary compensation because weak diaphragm and the patient is compensating? 2. Pain</li> <li>IX] ds DNA mildly positive makes us think of Lupus; we need to look out for kidney</li> </ul>
	Allergies: Nil	IVIG, Pulse steroids, Immunosuppression- Improved Final Dx: DERMATOMYOSITIS	involvement, cytopenias to confirm; <u>NXP2 (anti-nuclear matrix protein 2</u> ):- young patients, dysphagia, underwhelming CK levels; <u>TIF1 antibody</u> :- Cancer? Paraneoplastic etiology?