



12/06/24 Morning Report with @CPSolvers



"One life, so many dreams" **Case Presenter:** Kuchal Agadi (@AgadiKuchal) **Case Discussants:** Rabih (@rabihmgeha) and Reza (@DxRxEdU)

<p>CC: presented to ED due to fall on the outstretched hand</p> <p>HPI: the neighbors called 911 following the fall. She was a 64 yo F, normal 3 months ago. She felt progressively weak and she reports decreased need to sleep. Prior to the fall she had occasional palpitation. She fell despite outstretched hand and complains of a headache, 2-3 in intensity. More at the site of impact temple.</p> <p>Further course: mirtazapine, propranolol, thiamine, folic acid, D5, LR methimazole was given.</p>		<p>Vitals: T: BP: 150/65 (150/80) RR: 32 HR: 135 Sat: 97% BMI: 12 (38kg, 60 kg two years ago)</p> <p>Exam:</p> <p>Gen: alert, awake, oriented, emotional lability</p> <p>Neck: diffusely enlarged thyroid, bruit present, not tender, no lymphadenopathy</p> <p>CV: tachycardia, irregular, no murmurs</p> <p>Pulm: decreased breath sounds on right base</p> <p>Abd: scaphoid, bony prominence</p> <p>MSK: Multiple skin bruises</p>	<p>Problem Representation: 64 y/o F presented with FOOSH. She felt progressive weakness for 3 months & decreased need to sleep. She's tachycardia and hypertensive, with an enlarged thyroid and thyroid bruit. TSH i slow and urine culture showed klebsiella</p>
<p>PMH:</p> <p>Appendectomy 30 y ago Admitted and treated for anorexia twice during her 20s C-section 35 years ago No medical check up for the past 17 uears</p> <p>Has been out of care for 17 years</p> <p>Meds: none</p>	<p>Fam Hx:</p> <p>Unknown</p> <p>Soc Hx:</p> <p>Dog died 8 months ago</p> <p>Health-Related Behaviors: 20 pack years, 1-2 glasses of wine on friday evenings for 40+ years</p> <p>Allergies:</p> <p>Penicillin</p>	<p>Notable Labs & Imaging:</p> <p>Hematology:</p> <p>WBC: 10 Hgb: 11.4 -> 9 Plt: 93/70/60 Hct: 35.5% PTT/INR nl</p> <p>Chemistry</p> <p>Na: 137 K: 3.8 Cr:1.5 BUN: 17 > 18 > 27 > 40 Ca: Ph:3 Mg:1.6 Glu: Cl: HCO3: Procal elevated, AG 17 Lactate 4.6 Trop neg eGFR 25, 14 TSH reflex: 0.002 -> 0.000 free T4: 2.9 Cystatin C: Urine: turbid, ph 6, glucose 100, protein 100, urobilinogen > 8 Urine leuko est: positive, WBC: 5-10, RBC: 4-5, amorphous urate 2+ Urine culture: Klebsiella pneumoniae + Imaging: EKG: Afib ECHO: moderate AI, moderate to sever MR, moderate to severe L//R atrial dilatation, EF, severely elevated pulmonary pressures CXR: small R pleural effusion and aortic calcific atherosclerosis</p> <p>Dx: Graves disease with thyrotoxic cardiomyopathy. Chronic AF with RVR. With AKI on CKD and anorexia nervosa</p>	<p>Teaching Points (Masah):</p> <p>Fall: Why? Did the patient lose consciousness</p> <p>FOOSH: patient is able to protect themself with reflexive mechanism</p> <p>Weakness: is it a true weakness? Neurologic weakness or fatigue/asthenia?</p> <p>Anatomically: CNS (brain, sp cord), PNS (Ant horn cells, peripheral nerves), NMJ, Muscles.</p> <p>Meds affecting muscle strength?</p> <p><i>Dysfunction in relation to how long the patient has felt discomfort indicates whether this is a neurologic issue.</i></p> <p>Tachycardia → EKG to determine if it is sinus?</p> <p>Increase COP to protect from current or impending hypoT</p> <p>Morbid causes of dramatic onset of sympathetic tone is an abrupt syndrome (eg. abrupt aortic dissection)</p> <p>Ongoing sympathetic toxicity that is diffuse in nature → hyperthyroid</p> <p>Hyperthyroid on exam: <u>Graves specific:</u> Eyes (exophthalmos) , Skin(myxedema), Clubbing, Thyroid bruit</p> <p><u>Elevated thyroid state:</u> vitals, tachycardia, HTN with wide PP, tremor, diaphoresis, lid lag</p> <p>Sudden onset:</p> <p>Rupture (aortic dissection, bowel perforation) or Obstruction (ACS, Stroke) or Substance (something they're taking or making)</p> <p>Thyroid function tests: Thyroid gland stores T4, T4→T3 in periphery</p> <p>If thyroiditis → T4:T3 ratio increases</p> <p>Graves is T3 predominant so → T4:T3 ratio decreases</p>