

8/4/23 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Shreyas (@) Case Discussants: Rabih (@Rabihmgeha) and Prof Reza(@DxRxEdu)

CC: 31yo M presents with recurrent episodes of palpitations and occasional dull chest pain.

HPI: Recurrent palpitations for 8 months. 2 episodes of near-syncope. Intermittent chest pain. TFTs wnl.

Most episodes of near-syncope occur while taking a shower - similarly while eating; experiences proximal muscle weakness and decreased grip strength.

ROS: -ve GI symptoms

PMH:

HTN, Appendecto my

Meds:

Nadolol Verapamil Fam Hx:

N/A

Soc Hx:

N/A

Health-Related Behaviors:

No smoking hx

Allergies: N/A

Vitals: T: HR: 71 BP: 131/82 RR: 20 SpO2 100%

Exam: Gen: NAD

CV, Pulm, Abd: wnl

Neuro: wnl

Extremities/skin: warm, well perfused

Notable Labs & Imaging:

Chemistry: Na: 139 K: 3.3 Cl:109 CO2: 22 BUN:25 Cr:

0.8 glucose: 100 Ca:8.9 Phos: 3.3 Mag:1.9

TFTs normal VMA normal

Troponin normal Stress test normal

Imaging:

EKG: normal sinus tachycardia

Echo normal

Head CT scan normal

Orthostatic vitals:

HR 68 sitting, stand 143 → orthostatic hypotension

Final dx - POTS, also known as Postural Orthostatic Tachycardia Syndrome

Problem Representation: 31yo M presenting with recurrent, intermittent palpitations triggered by meals or hot showers, proximal muscle weakness and decreased grip strength. Labs showed hypokalemia, otherwise unremarkable. Vitals showed a drastic increase in HR upon standing.

Teaching Points (Ayesha):

- -Sequence of events/prioritize the events
- -Bad luck, risky behaviour (illicit substances increasing chance of consequences), and Genetic (Supraventricular Tachycardia)
- Young age: consider drugs (methamphetamines), energy drinks.
- -<u>Episodic nature</u>: **1.** What happens before, between and after an event what changes happen between episodes? residual symptoms day to day **2.** (can pt identify the trigger? hot showers), **3.** why does the episode stop by itself?
- -Trigger: is it an incidental finding or a possible hypothesis?
- -Heat Mast cell mediated (from PV check serum tryptase) or Vasovagal mediated?
- -Cholinergic urticaria: occurs due to an increase in body temp, abnormal connection between temp and vagus nerve = vasovagal syncope due to exogenous or endogenous heat. Assess for a vagal tone (high?)
- -Food association: Insulinoma (food giving sensation of lightheadedness/palpitations get glucose levels to test hypothesis).
- -Potassium: **Hypokalemic periodic paralysis** (southeast asia) happens after a large meal, due to a genetic defect causing the paralysis and thyroid hormone involvement.
- -Vasodilation from heat may be causing syncope possible hypothesis.
- -Hormonal abnormality? ACTH category
- -<u>Postural tachycardia syndrome</u>: (aka postural orthostatic tachy syndrome) normal BP is key. Sudden increase in HR.
- Might be associated with Ehler danlos
- Management: Rehydration, compression stockings, salt limiting foods.