



# 12/18/20 Morning Report with @CPSolvers



Case Presenter: (Conan ) Case Discussants: RLR: The Magician and the Mathematician (Thiago @mendesthiagob)

**CC:** 27 y/o F w/ 4 days of nausea & vomiting

**HPI:** A 27 y/o F presents with 4 days of n/v. One week prior she had a sore throat and cold sms. Yellow to brown vomit. Worse with eating. Cough and SOB over the last week. No fever chills but felt warm. Denies COVID exposure.

**PMH:** Gestational DM, HTN, vaginal delivery 6 months ago

**Meds:** None

**Fam Hx:** none

**Soc Hx:** Lives at home with 6 family members. No tobacco or alcohol or drugs

Sexually active with husband, LMP 1 month ago

**Health-Related Behaviors:** None

**Allergies:** None

**Vitals:** T: 36.9 C HR: 126 bpm BP: 137/97 RR: 20 SpO<sub>2</sub>: 97

**Exam:**

**Gen:** BMI 31, no acute distress

**HEENT:** Nml, no palpable thyroid, NT

**CV:** Tachy, Reg, no murmurs

**Pulm:** CTAB

**Abd:** Sof NT NT

**Neuro:** Normal

**Extremities/Skin:** No edema

**Notable Labs & Imaging:**

**Hematology:** WBC: 5.3 Hgb: 15.1 Plt: 226

**Chemistry:** Na: 141 K: 3.9 Cl: 105 CO<sub>2</sub>: 22 BUN: 26 Cr: 0.72 glucose: 115 Ca: Phos: Mag:

AST: 201 ALT: 208 Alk-P: 43 T. Bili: 1.1 Albumin: 3.3 Dimer neg, trop neg, BNP normal Upreg: negative

**Imaging:** EKG: Sinus Tachycardia CXR: Normal

TSH< 0.1 Free T4 4.69, COVID +, + TSH receptor ab 7.06, Thyroid peroxidase +, ANA -, Anti Smooth muscle ab -

**US abd:** Hepatomegaly, fatty liver (likely from NAFLD)

**US thyroid:** heterogeneous thyroid gland, no nodules, **ECHO:** EF 55%

- After 1 L of fluids, HR into the 150s and repeat ECG Afib RVR, remained normotensive, - HR continued up, 180s, dilt 10mg and improved to 120s then back up. Started on propranolol, methimazole, and steroids and improved and likely secondary to Graves disease

**Problem Representation:** A 27 y/o F w/ no sig PMH p/w 1 week h/o sore throat, cough, &SOB found to be afebrile, tachycardic & then Afib w/ RVR who was found to have a low TSH, elevated Free T4, and dx with Graves Dz

**Teaching Points (Rafa):**

- **APPROACHING YOUNG FEMALE PATIENT WITH N/V**  
Look for another more specific symptoms If there's not - focus on time course and severity!  
Constant (ACS) ? Waxing/waning? Any other associations like Postprandial (obstructive) Metabolic causes (hyponatremia, AI, toxins)
- **SOB** : SOB should be a priority - cardiopulmonary process  
There's an identifiable underlying cause / Few causes of idiopathic dyspnea
- **PHARYNGITIS + CHILLS:** Tempo is queen! Sequence of events is critical - make a timeline- it helps with the clinical reasoning! Causes: virus (transient course, EBV, CMV, HSV2), bacteria (Fusobacterium), fungal, parasitic  
Young patient: think of STD like syphilis, gonorrhea, HIV status
- **PE: TACHYCARDIA:** Normal PE - not always reassuring / Pathology can be far deeper than we see
- **ELEVATED AST ALT**  
Hepatocellular inflammation (infection like hepatitis, toxins, ischemia), extracellular causes (rhabdomyolysis, alcohol)
- **CHILLS BUT NO FEVER** - episodic febrile episode, environment, hypoglycemia, endocrinopathies (eg, menopause)
- **DISPROPORTIONATE TACHYCARDIA TO THE CLINICAL SYNDROME** - sympathetic toxicity - increased adrenergic tone - meds like albuterol, alcohol withdrawal, hyperthyroidism (Graves, adenoma, Hashimoto thyroiditis -tender gland, BhCG producing tumor) - can be a cause of Afib!
- **TSH RECEPTOR ANTIBODY, THYROID PEROXIDASE, LOW TSH:** Thyrotoxicosis and hyperthyroidism - Hyperglycemia (insulin resistance)  
Cause: postpartum thyroiditis - can occur up to a year, Graves (pregnancy can be a trigger)