

02/03/24 Morning Report with @CPSolvers

"One life, so many dreams" Case Presenter: University of Miami (Palm Beach JFK) Case Discussants: Ravi (@rav7ks) and Jia (@JiazhangXing)



CC: A 73 year old male presented to the ED with dizziness and fatigueHPI: Referred to the ED from regular follow-up		Vitals: T: Afebrile BP:150/72 HR:70 RR:17 SpO2:98% Exam: no orthostatic hypotension Gen: no acute distress HEENT: wnl	Problem Representation: 73 M with dizziness, fatigue with fasting episodic hypoglycemia with High insulin, C-peptide.CT abdomen showing mass in tail of pancreas on HPE consistent with Neuroendocrine tumor(insulinoma)
3 months before which he was apparently normal: had a <u>COVID infection</u> , post which started experiencing dizziness, lightheadedness and fatigue, the symptoms are Episodic in nature with no specific pattern, relieved by eating/drinking something, the symptoms have been waking him up at the middle of the night ROS : denied sensation of room spinning, loss of balance/coordination, Decreases in appetite, no specific abdominal pain, palpitations, urinary/bowel incontinence, no neurological deficit		CV: no JVD, no murmurs Pulm: wnl Abd: soft, NTND, no organomegaly Neuro: wnl, no focal neurologic deficit, Extremities/skin: wnl Notable Labs & Imaging: Hematology: Hgb:13.5 WBC:10.1 Plt: 324 Chemistry: Na: 131 K:5.1 Cl:94 HCO3:27 BUN:18 Cr:1.05 AST: 48 ALT:47 Alk-P:121 T.Bili:0.6 Albumin: 3.2	Teaching Points (Vijay + Deb): - CC: Is dizziness causing fatigue or opposite. <u>Dizziness:</u> Neurologic, vascular. <u>Fatigue:</u> Objective weakness vs asthenia - COVID: Post COVID complications(autonomic,cardiac, Multisystem). Long covid → can miss a lot of things! Don't say is " long covid" without checking other diseases. You can miss an a important disorder. Ddx: Cardiomyopathy, hepatitis, malignancy, MIS-A. - Baseline functional status: Is it new, how is the patient activities daily. Neurologic signs suggest CNS involvement: HINTS(if Symptomatic), Dix hallpike, Cerebellar - Episodic improvement with eating: Look for hypoglycemia. Neuroendocrine tumors, adrenal insufficiency.
PMH: No relevant PMH	Fam Hx : Type 2 Diabetes in Mother	CoVID:negative Hba1c:5.2 Glucose:127→30(within 2 hours) Insulin:59.6 (3-25) C-peptide :elevated ketones:nl ACTH:nl, cortisol:nl Imaging: <u>EUS FNAC biopsy pancreas</u> : immunostaining positive for neuroendocrine tumor in primary pancreatic lesion;	 Normal exam makes us think of metabolic (Liver, renal, adrenal) Pseudohypoglycemia(CBG falsely low), Reduced food intake. Labs: Al: 1ry:Low Na, NAGMA, HyperK, Hyperpigmentation, Weight loss (Prototype may not be present). MCC; Autoimmune(US), TB(outside) Cortisol <5: Al,5-15: ACTH stimulation test.>15: rules out Al The hyponatremia is a secondary process, can be caused by polypsia,
Meds : OTC multivitamin	Soc Hx: no alcohol/smoking/drugs Lives with wife	staining positive for synaptophysin and chromogranin <u>CT Abdomen/Pelvis</u> : pancreatic mass at the tail of pancreas, hypodense lesions in the liver(without contrast)	 alcohol intake, adrenal insufficiency. Hypoglycemia: Confirm with Whipples triad. PEARL: Hypoglycemia labs DURING hypoglycemia episode! DM vs Non-DM. Endogenous vs Exogenous Hyperinsulinemia.Fasting vs post-prandial
	Allergies: no	Dx: Insulinoma	Labs: Insulin, C-peptide, cortisol, CECT AP If labs suggest endogenous hyperinsulism with normal imaging → EUS Liver lesion: with peripheral enhancement concerning for metastasis Insulinoma: High C-peptide, High Insulin, Low Betahydroxybutyrate. Look for MEN-1 syndrome when insulinoma diagnosed. Post surgery hyperglycemia common