



04/23/21 Morning Report with @CPSolvers



Case Presenter: James Plumb Case Discussants: Prof Rez (@DxRxEdu) and Rabih Geha (@rabihmgeha)

<p>CC: Abdominal pain and SOB</p> <p>HPI: 31M with 2 day history of nausea/vomiting, abdominal pain and SOB</p> <p>Diffuse abdominal pain, increased in lower abdomen, both flanks. SOB, fatigue, weakness and constipation.</p>	<p>Vitals: T: 36.6C HR:65 BP:147/88 RR:18 SpO₂:100% on room air Exam: Gen: Acute distress, diaphoretic. Vomitus non bilious/bloody HEENT, CV, Pulm, skin: Nl Abd: Not tender on palpation, normal sounds. Neuro: No numbness, tingling, weakness.</p>	<p>Problem Representation: Young adult presents with acute abdominal pain which improves with showers and is associated with nausea/vomit and SOB. Labs showed hypercalcemia, hypophosphatemia with elevated PTH. Images were positive for parathyroid adenoma.</p>
<p>PMH: Asthma well controlled. 3 ED admissions for abd pain, better with hot showers.</p> <p>Meds: Ibuprofen once a week</p>	<p>Notable Labs & Imaging: Hematology: WBC: Nl Hgb: 16.8 Plt: Nl</p> <p>Chemistry: Na:136 K:3.8 Cl:104 CO2: 21 BUN:10 Cr:8 glucose: 126 Ca: 10.9 (corrected) Mg: 2.0 Phosphate: .6 Cl/P ratio: >35 AST: Nl ALT: Nl Alk-P: T. Bili: Albumin: 4.9 Lipase: 11 Supplement with Phosphate, and new labs results were PTH: 107 VitD 25: 18.3 24h urine Ca: 421.8</p> <p>Imaging: CT: Parathyroid adenoma left thyroid gland, underwent surgery after Vit D supplement and PTH values improved.</p> <p>Final Dx: Primary hyperparathyroidism</p>	<p>Teaching Points (Rafa):</p> <ul style="list-style-type: none"> ● NAUSEA AND VOMITING - mark of severity Most cases don't point towards a dx: focus on the other symptoms ● DYSPNEA Dyspnea (95%) - heart / lungs Heart - myocardium, pericardium, endocardium, rhythm Lungs - alveoli / parenchyma / vasculature Less common causes - anemia, acidosis, anxiety, hyperthyroidism, neuromuscular weakness (ALS - dyspnea exacerbated when lying flat like patients w/ HF) ● ABDOMINAL PAIN Think about obstruction (small bowel obstruction), perforation (Boerhaave syndrome), ischemia (strangulated hernia), inflammation (appendicitis) Pearl: rectal exam for everyone and pelvic exam for women are always indicated Marijuana - cannabinoid hyperemesis syndrome Alcohol - pancreatitis, alcohol-related hepatitis, esophageal tear ● CONSTIPATION - concerning in a young patient Diet, hypercalcemia , opioids, ALS, IBS, hypothyroidism, endometriosis ● DEHYDRATION - higher albumin, hemoglobin, Ca - hydrate and check again ● VOMITING - hypochloremic hypokalemic metabolic alkalosis ● LOW PO4 - neurological and cardiorespiratory risk - ATP depletion Kidney (PTH, type 2 RTA) / GI loss (low vitamin D, PO4 binders, celiac disease)? Transcellular shift (insulin/beta agonist)? Cl / PO4 > 35 - think about PTH! ● PTH Primary (parathyroid adenoma/hyperplasia, lithium) / secondary(compensatory to low Ca/ vitamin D) / tertiary (advanced CKD) Rule out familial hypocalciuric hypercalcemia - check the urine Ca - higher than normal Ca required to suppress PTH