

10/17/23 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Shreyas (@shreyas_rn) Case Discussants: Ravi (@rav7ks) and CPSolvers Team

CC : 42-year-old male patient with generalized yellowing of skin and eyes worsening over the past 3 days.	Vitals: T: HR: 66 BP: 132/80 RR: 13 SpO2: 99% on RA Exam: Gen: alert and oriented x4. Yellowish discoloration of face, sclera, palm and trunk	Problem Representation : 42 y/o male with recent appendectomy discharged with antibiotics 3 weeks ago, presenting with acute jaundice with labs suggestive of cholestatic liver injury with increased ALP and GGT, and imaging negative.
HPI: Denies any abdominal pain, vomiting, diarrhea, chest pain, or SOB. In the ED, patient was alert and	CV: S1 S2 normal Abd: nontender, nondistended, soft to palpation, no rebound, guarding, or rigidity. No evidence of hepatosplenomegaly	 Teaching Points (Reshma): Jaundice → Hyperbilirubinemia → Etiologies could be (prehepatic, intrahepatic and posthepatic) in a young patient consider: PBC, PSC Antibiotics could contribute to LFT elevation (eg. augmentin or any beta lactam) Find basal level of LFTs before arriving at a conclusion Gall bladder surgery - could cause biliary leakage and sepsis Chronic liver injury and cirrhosis - abdominal findings (ascites) When you hear hoof beats - think horses not zebras' think of the recent surgery, treatment given during and after the surgery and post surgery transfusion Medication can cause severe cholestasis. Complication of a lap surgery - hematoma could compress the bile duct and cause obstructive jaundice. Intrahepatic/extrahepatic could also cause direct bilirubin elevation Opioid could cause oddi of sphincter contraction causing an extrahepatic cholestasis picture Post surgical adhesions, intrahepatic trauma to the biliary system <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3291137/</u> (The value of hyperbilirubinemia in the diagnosis of acute appendicitis) Hyperbilirubinemia is a valuable marker for acute appendicitis. Patients with hyperbilirubinemia are also more likely to have appendiceal perforation or gangrene. Bilirubin should be included in the assessment of patients with suspected appendicitis. S-nucleotidase, ALP, GGT - if normal, it could be a non hepatic source Antibiotics - Augmentin and the beta lactams (typically the clauvulanate could cause the cholestasis) could cause significant cholestasis. Could present even after a significant time of 2 weeks. Vanishing bile duct syndrome could be a differential. Augmentin could cause liver injury causing elevation of all the LFts but could also cause just
oriented.	Notable Labs & Imaging: Hematology: WBC: 7000 Hgb: 14 Plt: 150,000 Chemistry:	
PMH: Appendecto my 3 weeks ago, was discharged on abx (Augmentin), that he took for 10 daysFam Hx: NoneMeds: NoneSoc Hx: No recent travel, no sick contacts, drinks 2-3 beers on weekends sometimes, non smoker, no illicit drug useMeds: NoneHealth-Related Behaviors: None	 Na: 136 K: 3.5 Cl: 106 bicarb 23 BUN: 11 Cr: 0.6 Ca: 9.3 Mag: 1.6 AST: 62 ALT: 63 Alk-P: 600 Total-bilirubin: 20 direct 16.8 indirect 3.2 GGT: elevated haptoglobin 55 (normal) Anti-hepatitis B surface antibody positive, ceruloplasmin normal, ANA negative, antimitochondrial antibody negative, anti smooth antibody negative, TSH 1.3 Imaging: US: increased liver echogenicity, gallbladder with biliary sludge and gallstones, negative murphy sign, non dilated common bile duct 4.3 mm (normal) CT: normal, no masses or lesions seen MRCP: no CBD dilation, no CBD stones seen 	
Allergies: NKDA	Dx: Augmentin Induced Cholestatic Liver Injury	cholestaisis without any significant liver injury