

U.S. Department of Veterans Affairs

eterans Health dministration VA Portland Health Care System

Admission Diagnosis

Necrotizing Pancreatitis complicated by WOPN

Initial Presentation

18 year-old female with history of obesity, cholelithiasis, and marijuana use disorder admitted for 1 mo at an OSH for acute necrotizing pancreatitis of unclear etiology

- **Developed a large peri-pancreatic fluid collection** with near occlusion of the portal venous confluence, and signs of partial GOO
- Also found to have asymptomatic complete heart block, no prior ECGs
- Transferred to OHSU for surgical intervention
- No recent trauma, travel, rash or tick bites
- No current or prior alcohol use
- Family history of acute pancreatitis, no cardiac arrhythmias/blocks

Clinical Course

- At outside hospital:
- -No biliary duct obstruction: only mildly elevated GGT
- -Intermittent brady to 40s at OSH, increased to 100 with activity
- -cardiology at OSH felt block a/w acute pancreatitis, anticipated resolution with txt underlying disease
- **Overall improvement: normalizing of CRP, platelets** and WBCs with conservative management
- **Complete heart block required further eval prior to GI** surgical intervention
- Her junctional rate augmented well with atropine, never required pacing, unremarkable work up
- Successful EUS cystgastrostomy: -two large WOPN, s/p x2 pigtail stents
- Holter on discharge

A Mystery Block, Or Two Ellen Clark PGY-1, Phillip Blatt PGY-2 & Vishnu Manoranjan MD Oregon Health & Science University, Portland, OR

Imaging & Labs

- **RUQ U/S nonobstructive cholelithiasis without signs** of cholestasis
- **Repeat liver labs without signs of obstruction**
- Normal TG levels, normal IgG4 subclass
- **MRCP** demonstrating decrease in size of peripancreatic fluid collection however still c/f worsening GOO
- **TTE and Cardiac MRI unremarkable**

	\sim	_ln		<u></u>
V5j				
$\neg $	<u>~~</u> ^		,	

ECG: Complete Heart Block: narrow QRS at rates >40s consistent with high junctional escape rhythm



CT A/P with IV Contrast on Hospital Transfer: -Liver & biliary tree unremarkable -Pancreas body and tail with WOPN 9.1cm x 6 cm -New simple fluid collection within lesser sac 6 x 4cm -Signs of disconnected pancreatic duct syndrome



- obstruction

- TRPM4 muts recent travel history) cardiomyopathy genetic panel

- is not straightforward)
- recurrence
- Mar;52(3):262-70.
- 2;39(1):130-7.
- conduction defects associate with mutations in SCN5A. Nat Genet. 1999 Sep;23(1):20-1



Pancreatitis Evaluation

• Etiology unclear despite broad work up -Idiopathic / Genetic: mat / pat grandparent with acute pancreatitis, (-) genetic panel -Biliary: known cholelithiasis, although no signs of clear

interval imaging with improvement, GI to follow up

Complete Heart Block Evaluation

• Etiology unclear, differential included:

-Congenital: no hx maternal CTD (maternal anti-ro/la) -Familial cardiac conduction disorder: SCN5A, SCN1B,

-Infectious: Lyme (negative) or Chagas carditis (no

-Inflammatory / genetic cardiomyopathies:

unremarkable cardiac MRI & (-) arrhythmia and

• On holt monitor, cardiology to follow up

Key Points

• High incidence of acute pancreatitis in US: 2/3 cases: alcohol + gallstones; majority deemed "idiopathic" likely to have genetic risk, particularly in younger patients

• Etiology of complete heart block in younger patient without a clear acquired or structural cause may be congenital or genetic (less common)

 Most asymptomatic patients with CHB will become symptomatic and require pacemaker (timing of insertion

• This is a unique case with likely rare causes of 2 conditions known to have: high mortality rates &

References

• Bai HX, Lowe ME, Husain SZ. What have we learned about acute pancreatitis in children? J Pediatr Gastroenterol Nutr. 2011

• Forsmark CE, Baillie J; AGA Institute Clinical Practice and Economics Committee; AGA Institute Governing Board. AGA Institute technical review on acute pancreatitis. Gastroenterology. 2007 May;132(5):2022-44. • Jaeggi ET, Hamilton RM, Silverman ED, Zamora SA, Hornberger LK. Outcome of children with fetal, neonatal or childhood

diagnosis of isolated congenital atrioventricular block. A single institution's experience of 30 years. J Am Coll Cardiol. 2002 Jan • Schott JJ, Alshinawi C, Kyndt F, Probst V, Hoorntje TM, Hulsbeek M, Wilde AA, Escande D, Mannens MM, Le Marec H. Cardiac