



Case #3: Cirrhosis and its complications

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Question

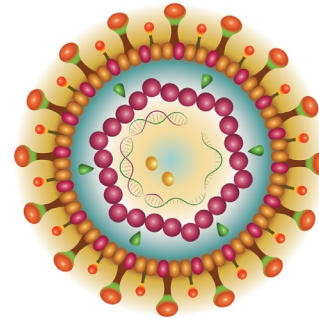
- Which famous composer underwent several large volume paracenteses toward the end of his life in 1827?



Beethoven's cause of death revealed from locks of hair

Genetic sleuthing points to liver disease, viral hepatitis and alcohol consumption as causes of the composer's demise.

- Autopsy report: "[liver] shrunken to half its normal volume...it was beset with knots the size of a bean...the spleen was double its proper size"



Case 3

A 63-year-old female with MASH-related cirrhosis, refractory ascites requiring q2weekly therapeutic paracentesis, and esophageal variceal bleed s/p banding (1 year ago) presents with AKI and confusion.

MELD 3.0 = 16, CTP B

Past Medical History:

- Obesity with weight loss over last 5 years, current BMI 24 kg/m²
- Hypertension, dyslipidemia, T2DM
- Recurrent AKIs with diuretics

Social History:

- Widowed
- Daughter in another state
- No smoking, alcohol, drugs

ED Evaluation

- Physical Exam:
 - BP 98/60, HR 80
 - **Drowsy, temporal wasting**, lungs clear, **large ascites**, no jaundice, 1+ b/l LE edema, **+asterixis**
- Labs:
 - Hgb 9/Platelet count 80
 - Na 136, Cr 0.8->**1.6**
 - Tbili 1.7, albumin 2.8
 - INR 1.7
 - MELD 3.0 = 21
- RUQ US w/ Doppler: cirrhosis, large ascites, patent portal vein and hepatic veins
- Paracentesis: **Ascites fluid PMN count >250/mm³**

Hospital Course

- SBP treated with ceftriaxone
- Given albumin challenge
- LVP 6L with albumin repletion
- Mental status clears with lactulose/rifaximin
- Cr rising to 2.6, bland sediment
- Starts midodrine/octreotide without improvement
- TTE: normal

ICU Transfer: Day 5

- Develops hematemesis and melena, transferred to ICU
 - EGD with 3 columns large esophageal varices, one with red wale sign, banded. No further bleeding.
 - Cr now 3.6 and oliguric, bland sediment
 - MELD 3.0 = 28

Summary: 63F with MASH cirrhosis with refractory ascites, AKI, HE, SBP, with course complicated by esophageal variceal bleed and worsening AKI-HRS.

Questions

- What are the options for managing her AKI-HRS?
- Is this patient a viable candidate for TIPS?
- If TIPS is an option, what is the optimal timing for TIPS?
- When would you consider liver transplant referral for this patient?