



GHAPP

Gastroenterology & Hepatology
Advanced Practice Providers

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Management of Esophageal Varices

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Disclosures

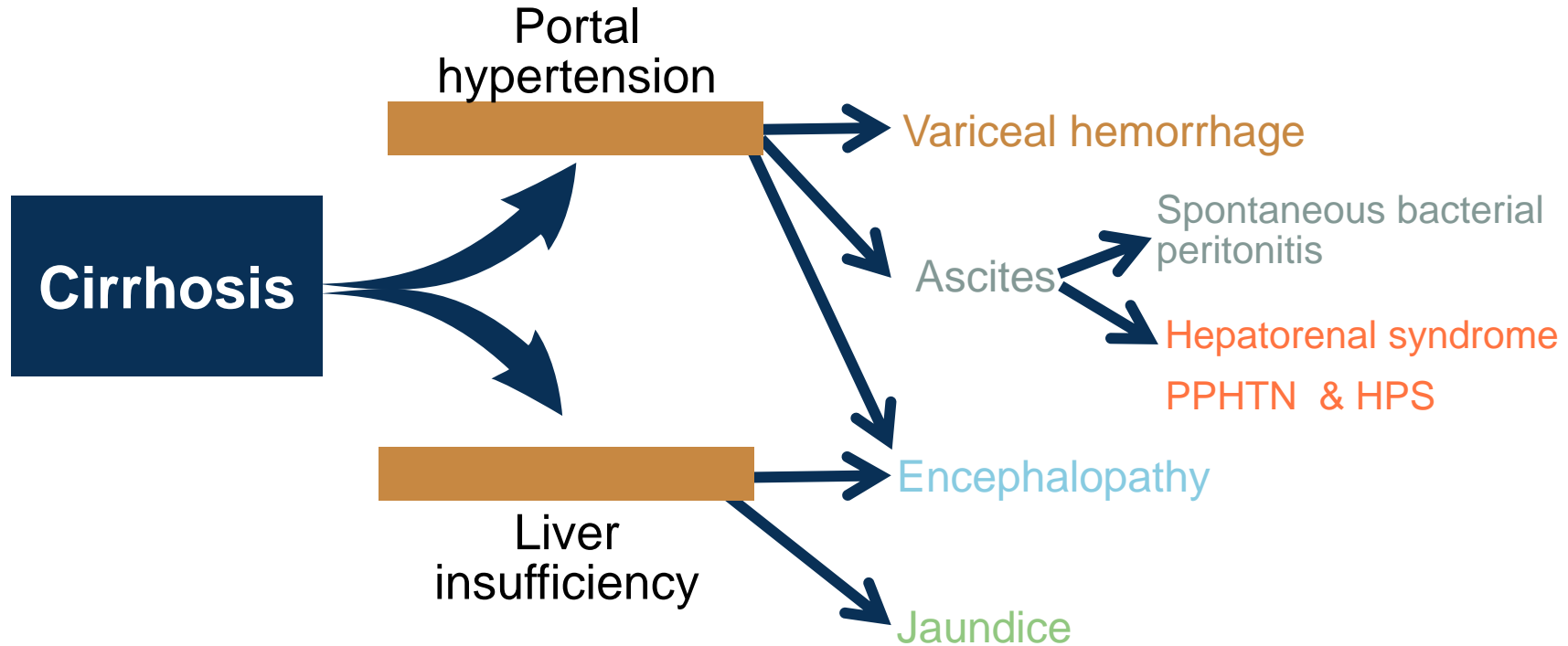
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Disclosures

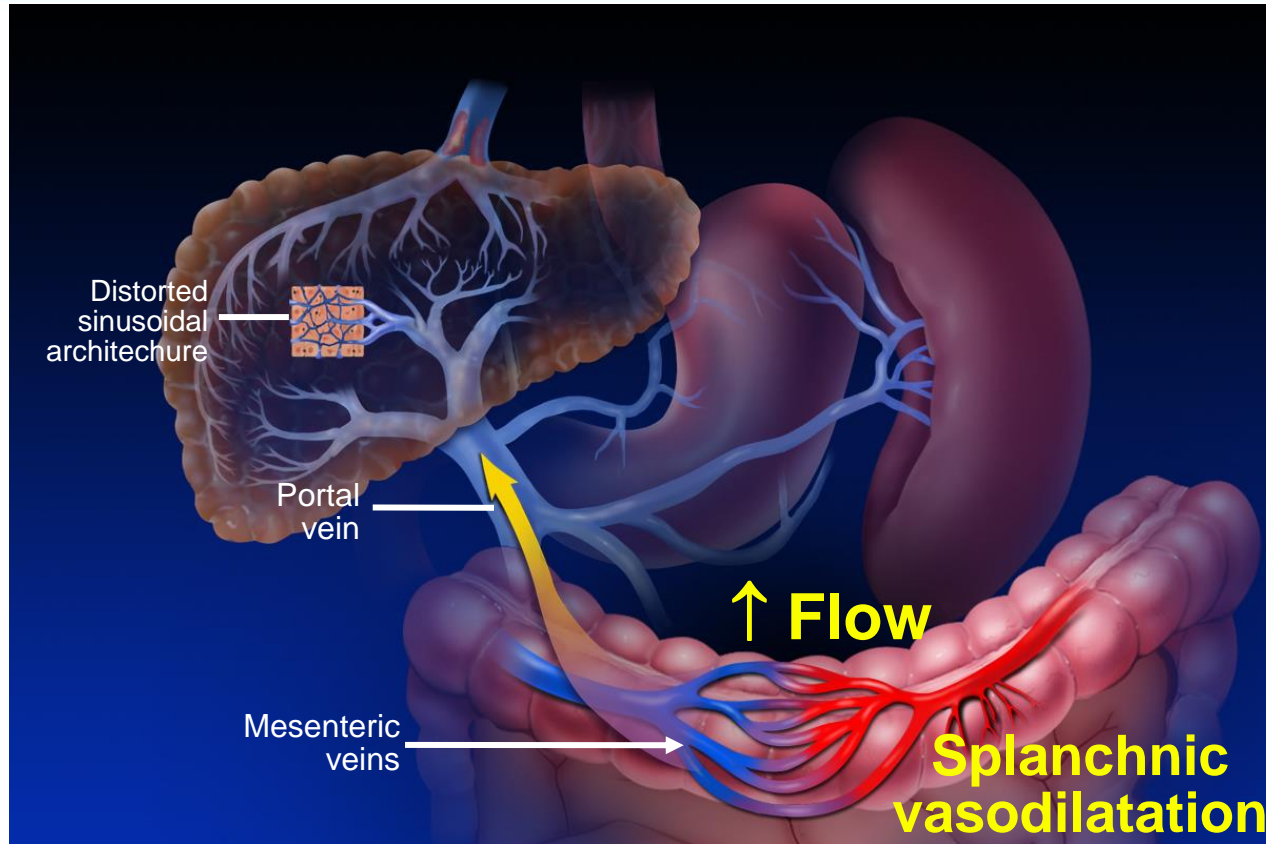
Jordan Mayberry, PA-C

Consultant: Intercept, Clinical Area: PBC, NASH

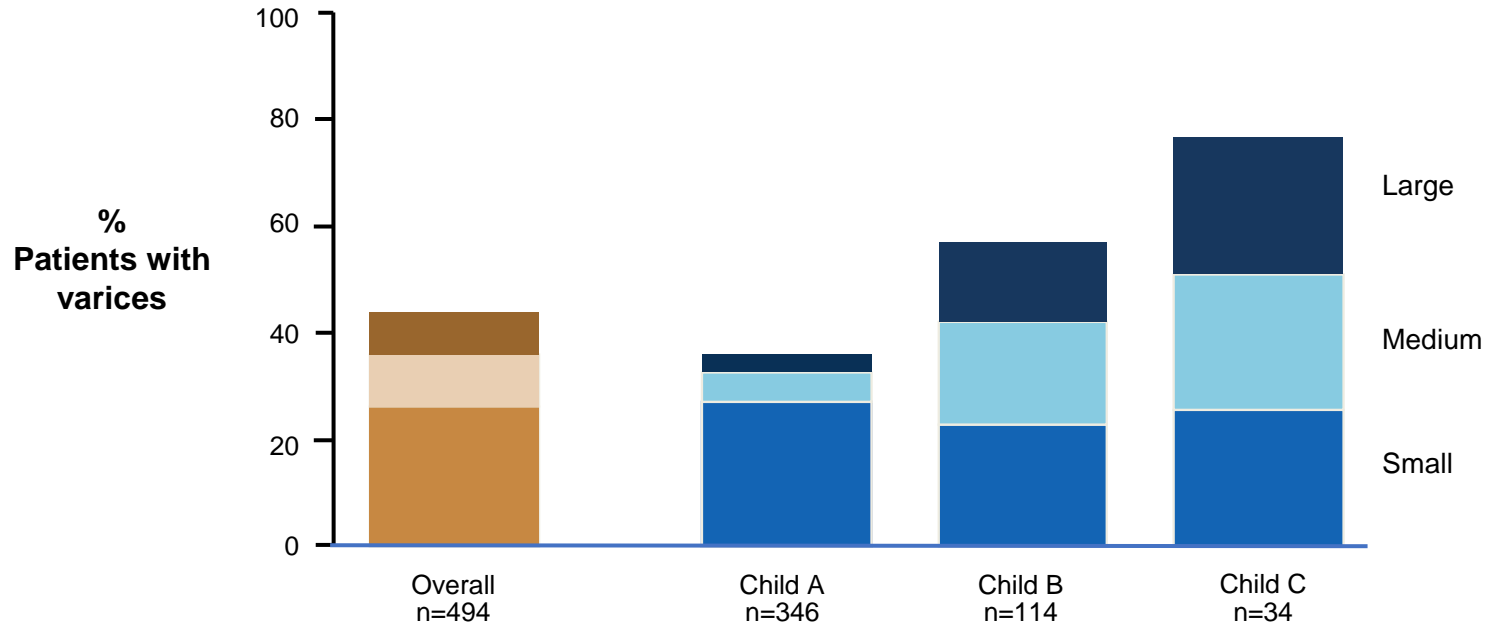
Complications of Cirrhosis Result From Portal Hypertension or Liver Insufficiency



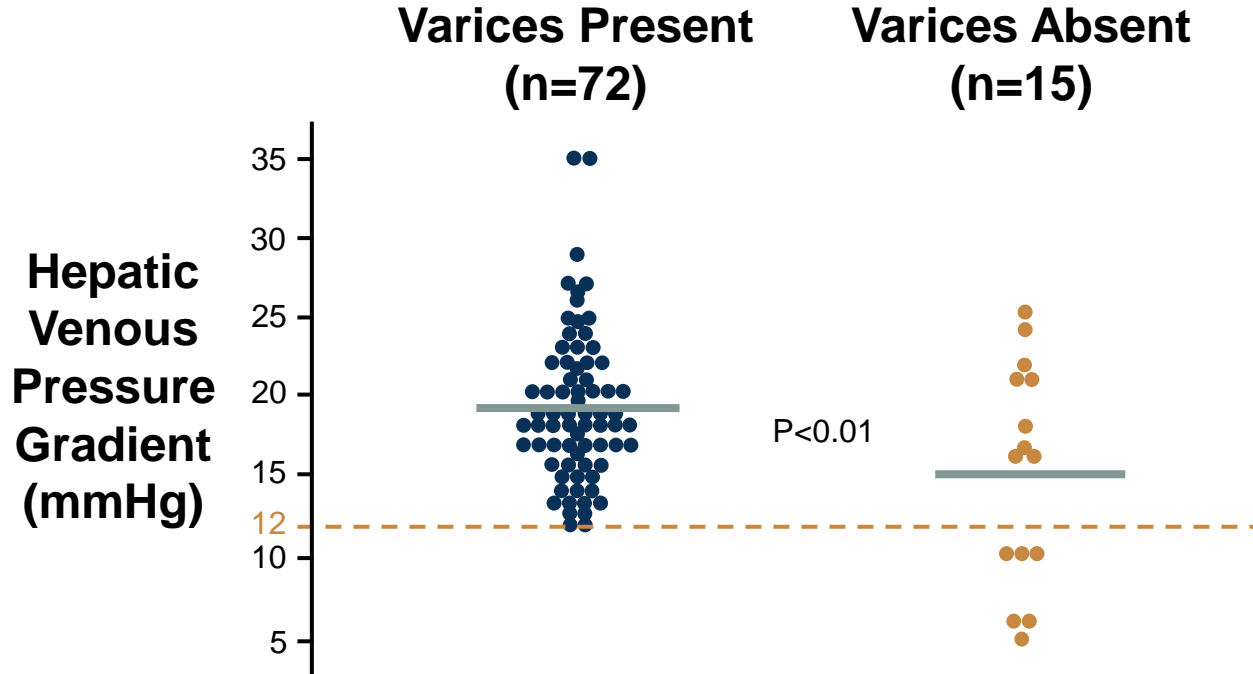
An Increase in Portal Venous Inflow Sustains Portal Hypertension



Prevalence and Size of Esophageal Varices in Patients With Newly-Diagnosed Cirrhosis



A Threshold Portal Pressure of ~12 mmHg Is Necessary for Varices to Form



Varices Increase in Diameter Progressively



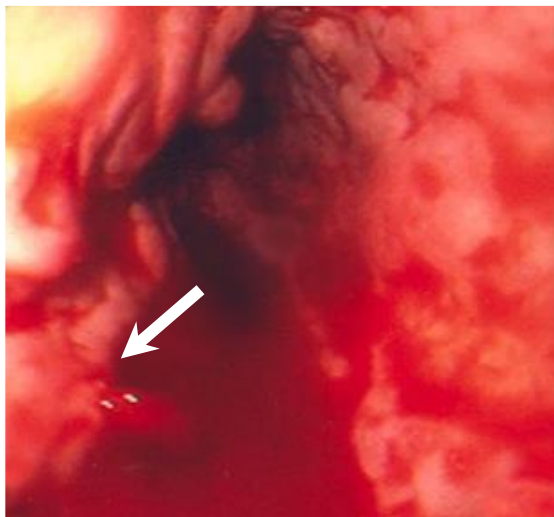
No varices

Small varices

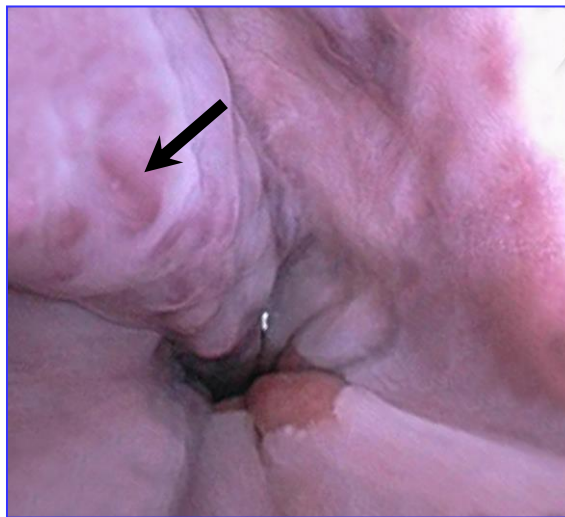
Large varices

7-8%/year

7-8%/year



Variceal hemorrhage

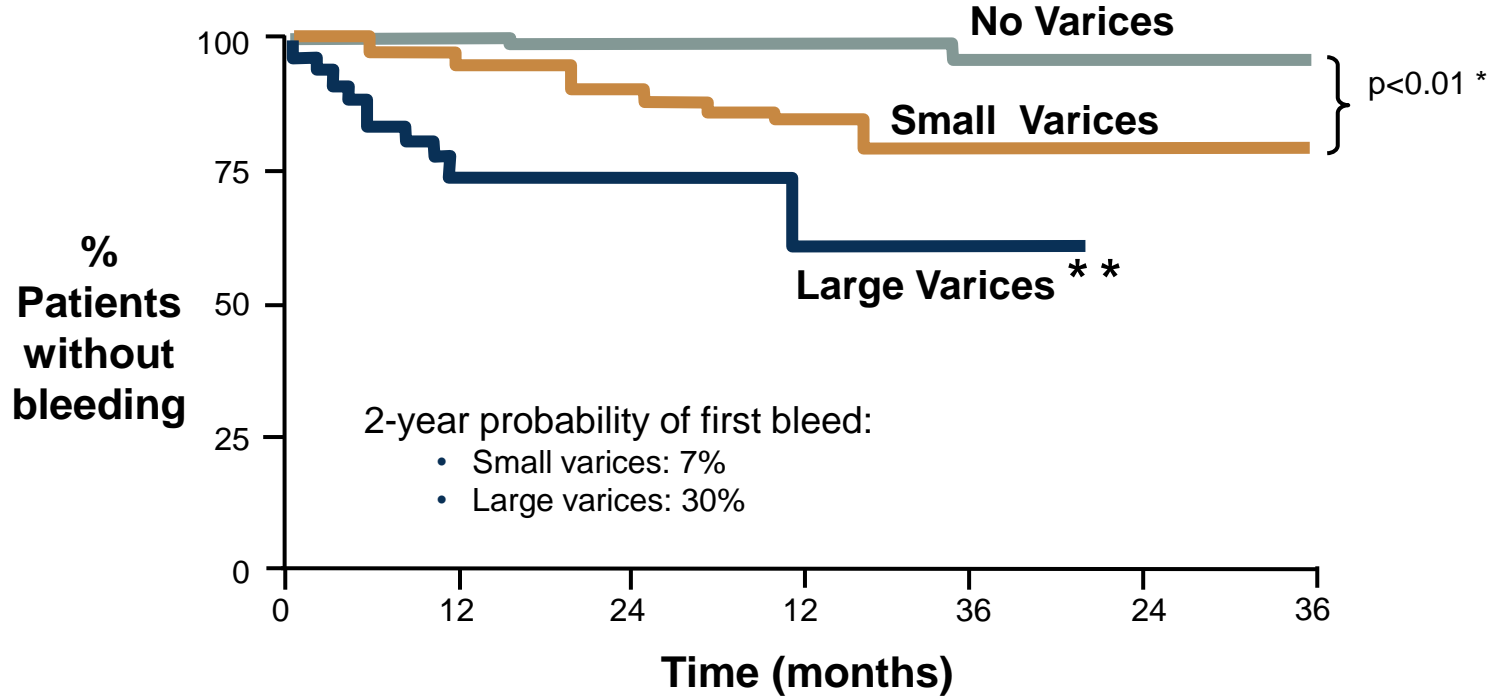


Varix with red signs

Predictors of hemorrhage:

- Variceal size
- Red signs
- Child B/C

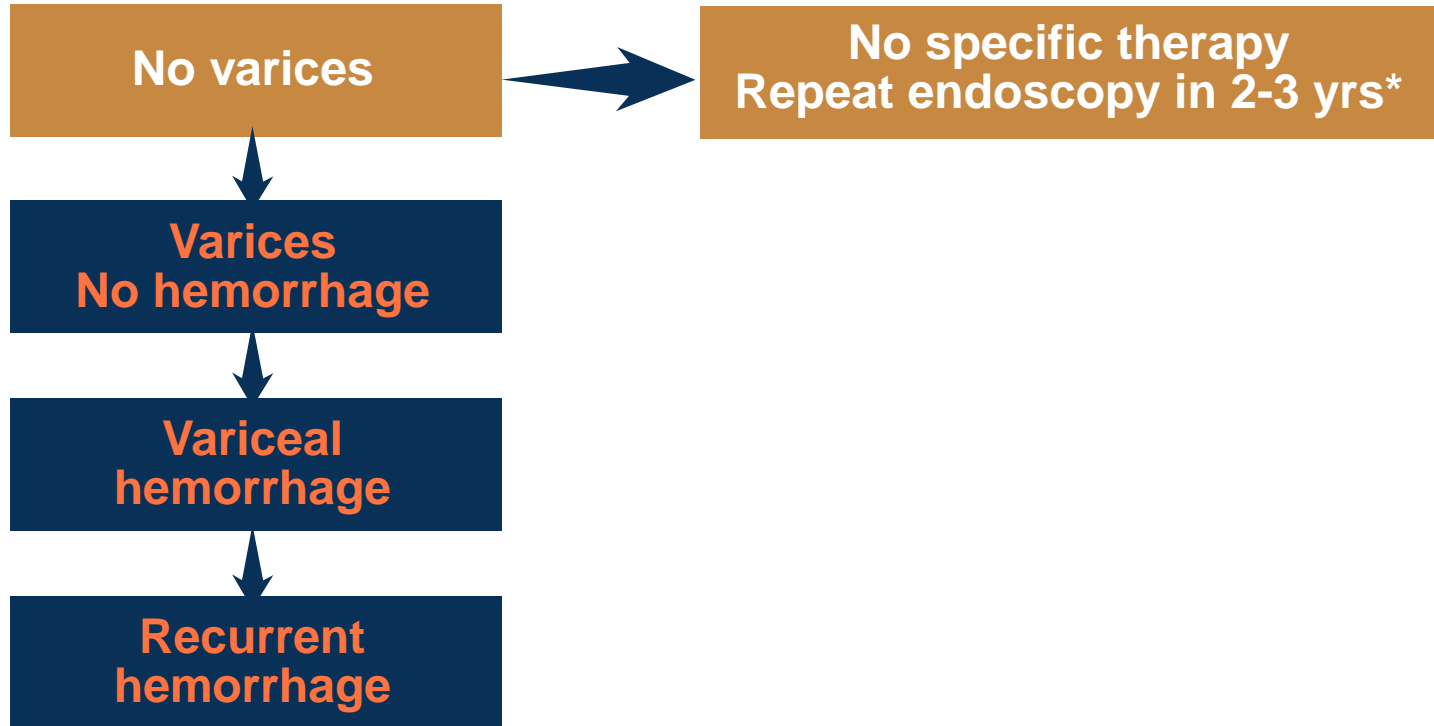
Large Varices Are More Likely to Rupture



Pre-Primary Prophylaxis

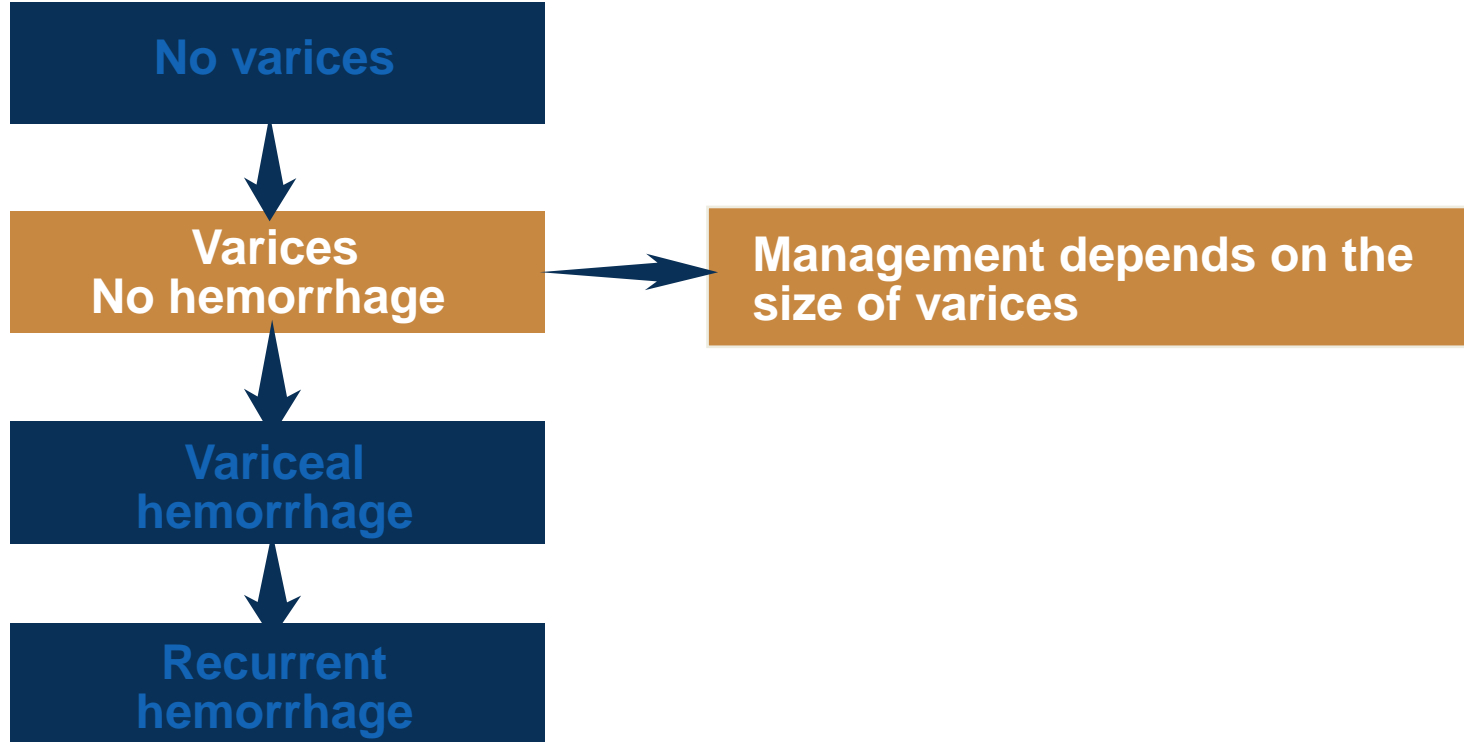
- Multicenter, randomized, placebo-controlled trial of timolol (non-selective beta-blocker) vs. placebo in patients
- Beta-blockers did not prevent the development of varices and were associated with a higher rate of serious adverse events
- Hepatic venous pressure gradient (>10 mmHg) was the strongest predictor of the development

Treatment of Varices / Variceal Hemorrhage



* Sooner with cirrhosis decompensation

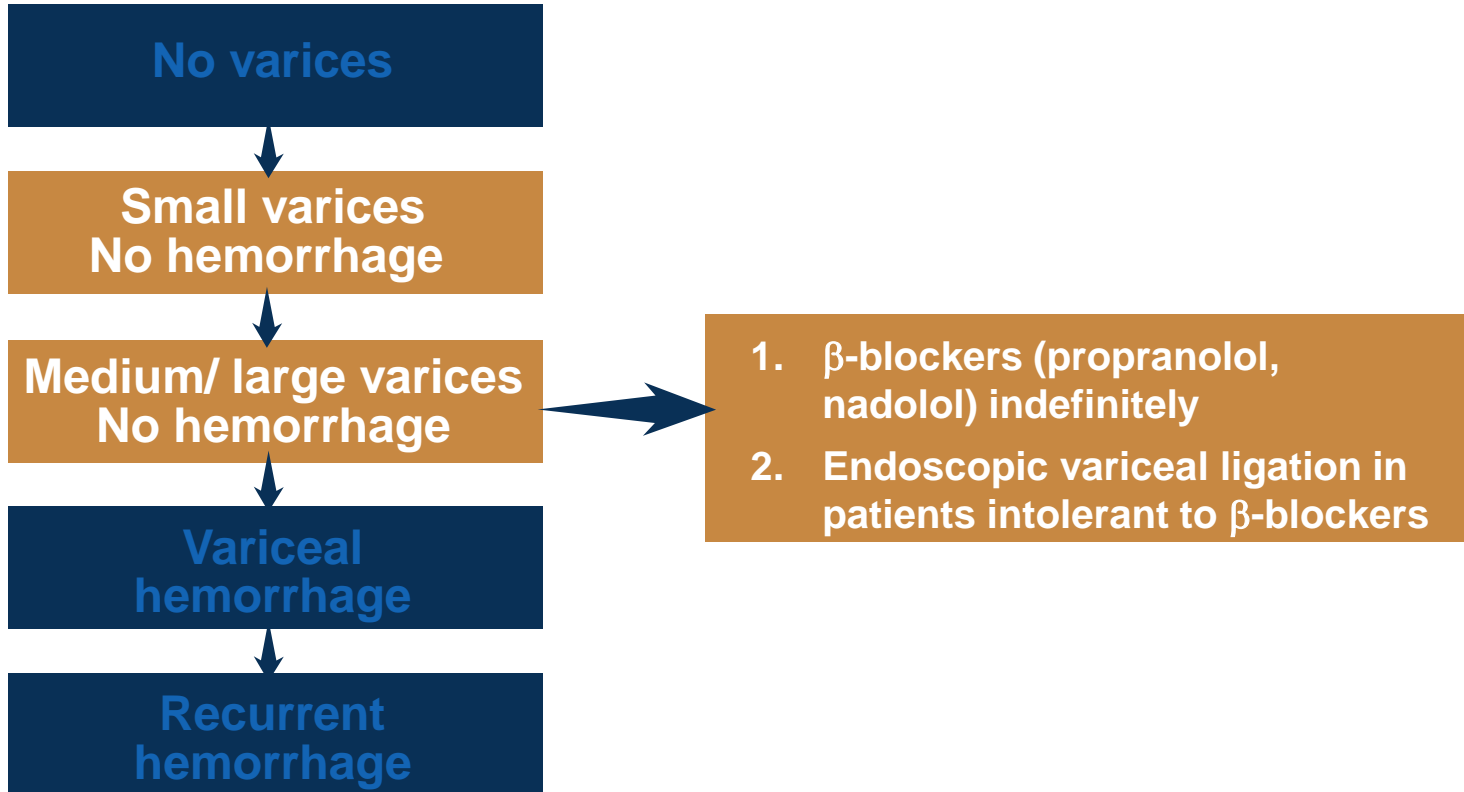
Treatment of Varices / Variceal Hemorrhage



AASLD Guidelines 2017

- Prevention of First Variceal Hemorrhage in Patients with small varices
 - NSSB is the recommended therapy for patients with high risk small EV

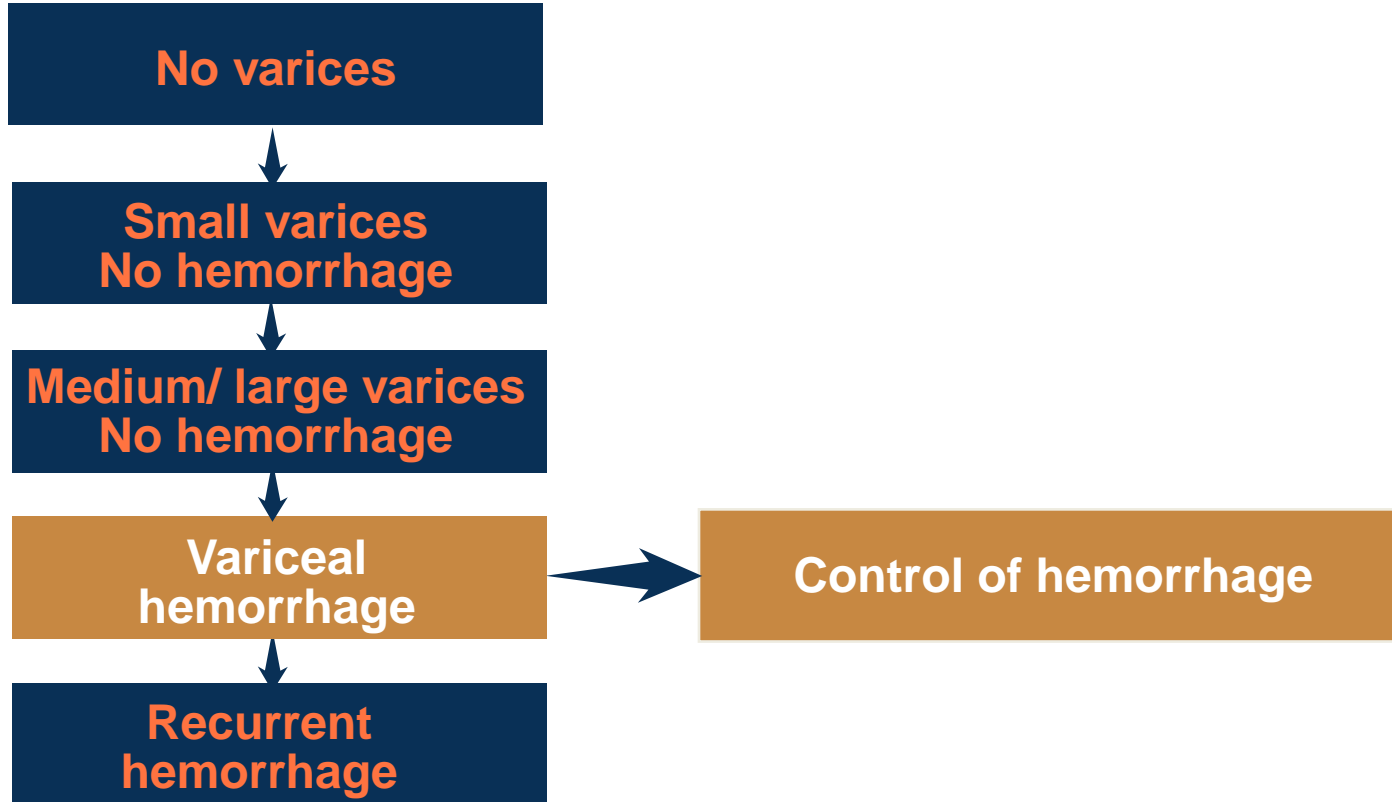
Treatment of Varices / Variceal Hemorrhage



AASLD Guidelines 2017

- Prevention of First Variceal Hemorrhage in Patients with Medium or Large Varices
 - Traditional NSBBs or EVL
 - Choice of treatment should be based on patient preference and characteristics
 - Patients on NSBBs or carvedilol do not require serial EGD
 - Combination therapy NSBB plus EVL is NOT recommended in this setting
 - TIPS is not recommend in this setting

Treatment of Varices / Variceal Hemorrhage

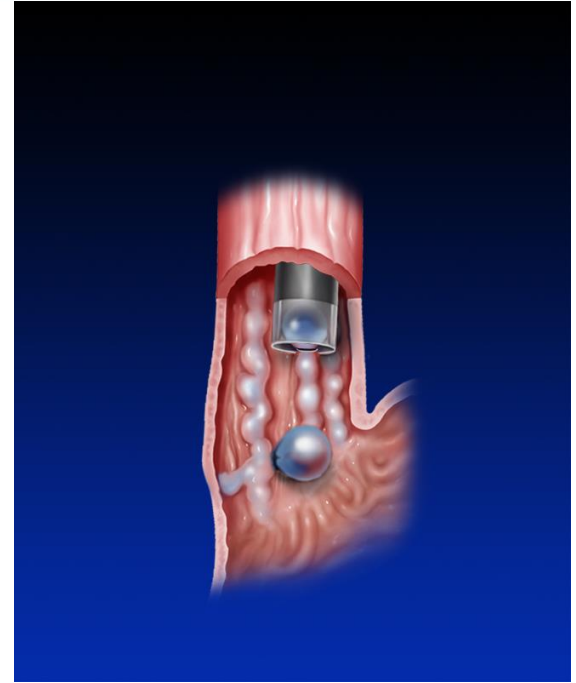


Treatment of Varices / Variceal Hemorrhage

- General Management:
 - IV access and fluid resuscitation
 - Do not overtransfuse (hemoglobin ~ 8 g/dL)
 - Antibiotic prophylaxis
- Specific therapy:
 - Pharmacological therapy: Octreotide
 - Endoscopic therapy: **ligation**,
 - Shunt therapy: **TIPS**, surgical shunt

Endoscopic Variceal Band Ligation

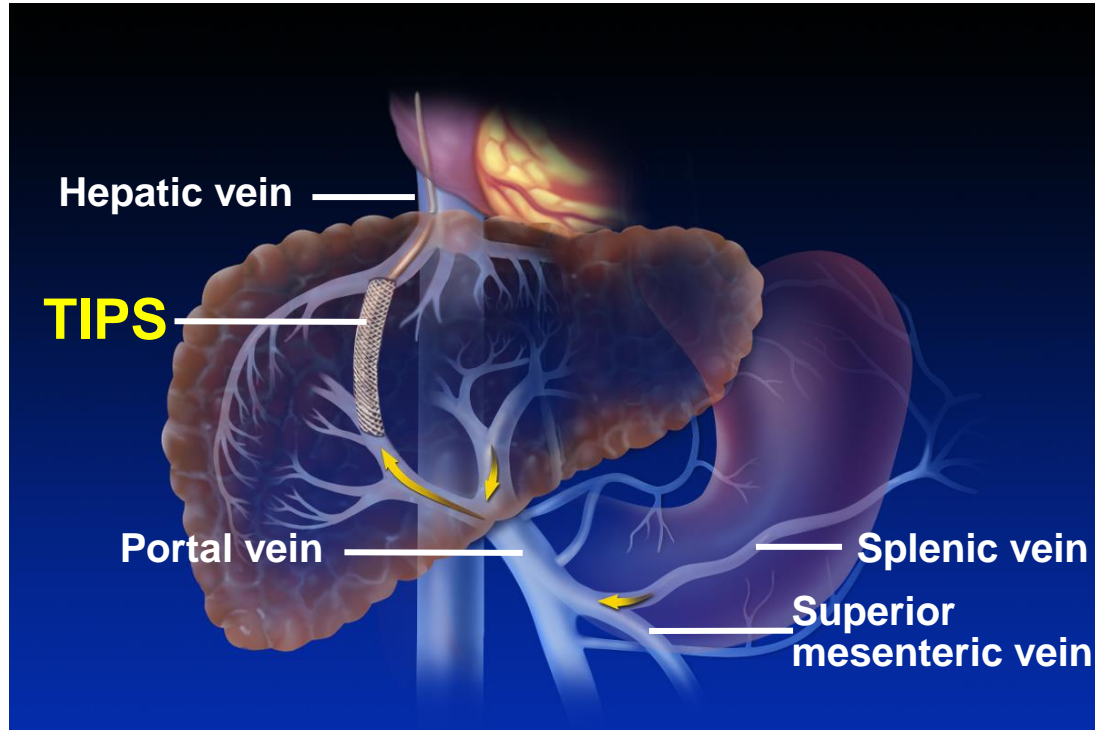
- Bleeding controlled in 90%
- Rebleeding rate 30%
- Compared with sclerotherapy:
 - Less rebleeding
 - Lower mortality
 - Fewer complications
 - Fewer treatment sessions



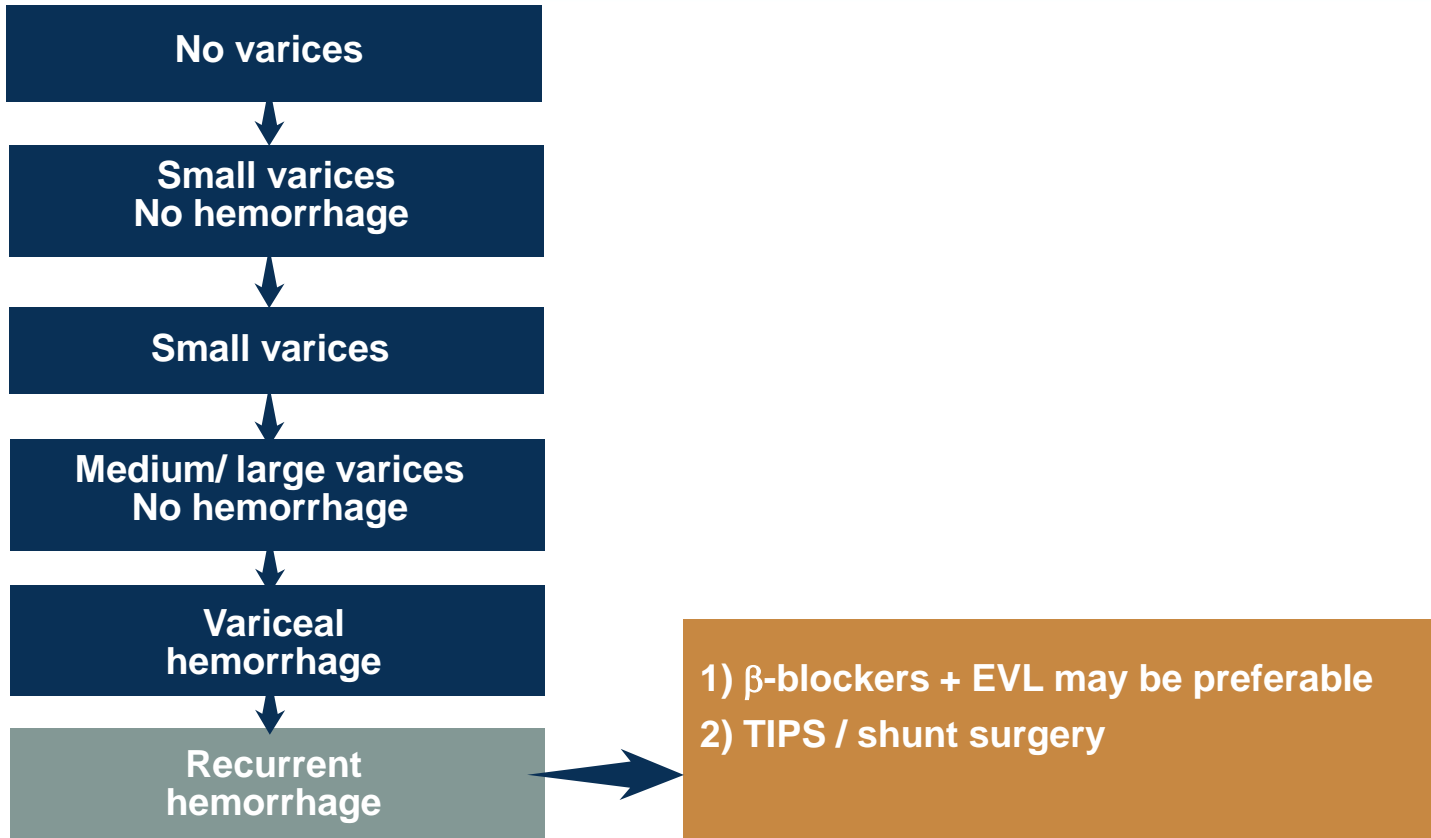
TIPS in the Treatment of Variceal Hemorrhage

- TIPS is rescue therapy for recurrent variceal hemorrhage
 - (At second rebleed for esophageal varices, at first rebleed for gastric varices)
- TIPS is indicated in patients who rebleed on combination endoscopic plus pharmacologic therapy
- In patients with Child A/B cirrhosis, the distal spleno-renal shunt is as effective as TIPS
 - (Dependent on local expertise)

Transjugular Intrahepatic Portosystemic Shunt

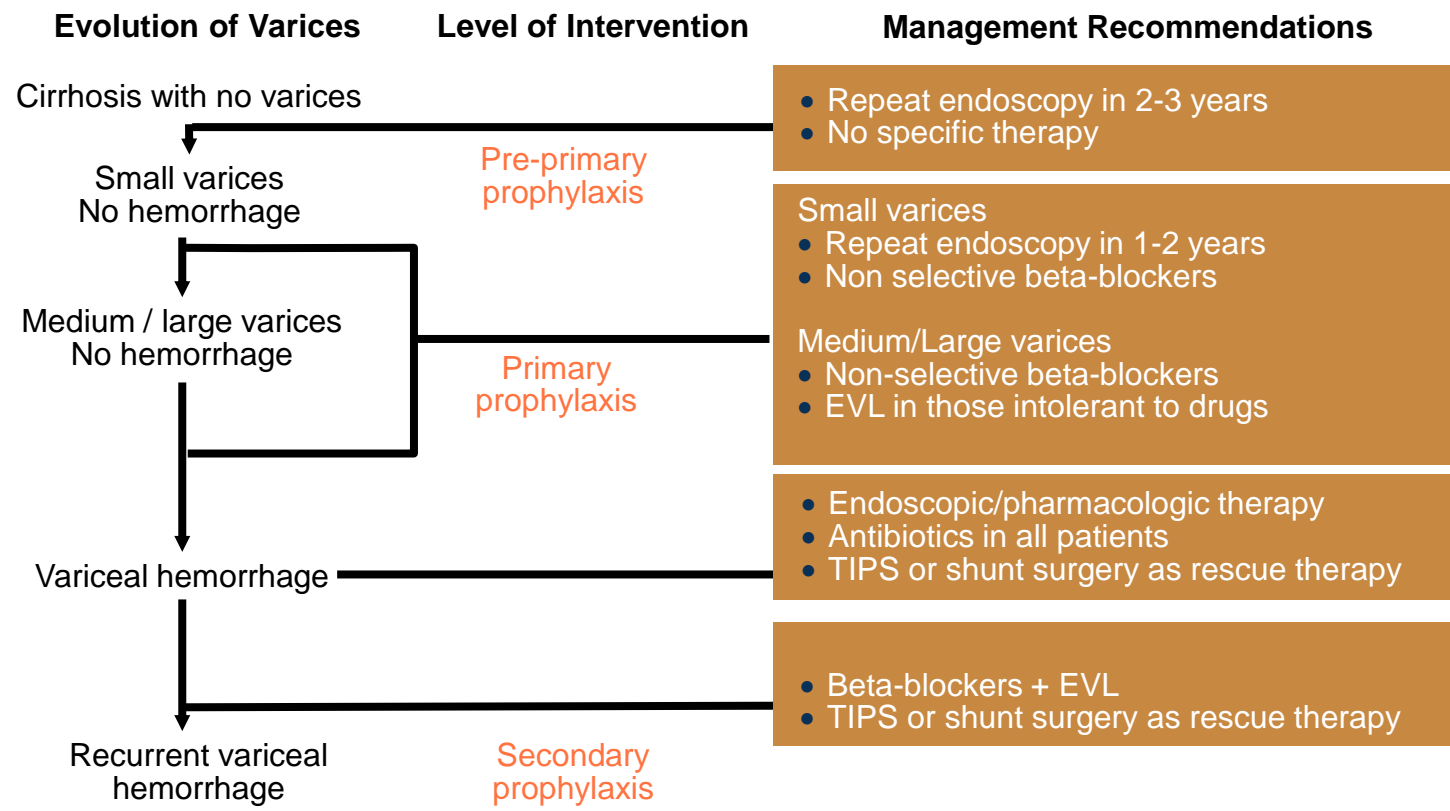


Treatment of Varices / Variceal Hemorrhage



AASLD Guidelines 2017

- Treatment for Prevention of Recurrent Esophageal Variceal Hemorrhage
 - Combination of NSBB + EVL is first line therapy
 - Goal HR 55- 60 bmp
 - TIPS is rescue therapy for these patients



Case AO

Case Presentation

- A 64 year-old male executive was brought to the emergency room after a pre-syncopal episode in the bathroom. He had been a heavy drinker for over 30 years.
- Physical examination was significant for orthostatic hypotension, asterixis, icteric sclerae and black, tarry stool on rectal examination.

Case AO

Case Presentation

- Hgb 9 g/dL, albumin 3.2 g/dL, bilirubin 3.7 mg/dL, INR 1.2.
- Patient was resuscitated and started on prophylactic antibiotics.
- On endoscopy, three columns of large esophageal varices with red wale signs and gastric varices were seen. No active bleeding.

Case AO

Therapy?

What is the appropriate management of his varices?

- Pharmacological therapy alone?
- Endoscopic treatment alone?
- Endoscopic + pharmacological therapy?
- TIPS?
- Surgery?

Case AO

Acute Therapy

- The source of bleeding is likely variceal given the absence of other lesions that could explain upper GI hemorrhage
- Octreotide infusion was initiated after an initial bolus
- Variceal band ligation of esophageal varices was performed

Case AO

Long-Term Therapy

- After 5 days without recurrent hemorrhage, patient was started on propranolol 40 mg p.o. BID
- Once HR indicated appropriate beta-blockade (55-60 bpm) patient maintained on this dose indefinitely
- Outpatient endoscopy with possible banding was scheduled