

# **Acute Variceal Bleeding**





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## **Treatment of Acute Variceal Hemorrhage**

**General Management:** 

- IV access and fluid resuscitation
- Do not overtransfuse (hemoglobin ~ 8 g/dL)
- Antibiotic prophylaxis

#### **Specific therapy:**

- Pharmacological therapy: terlipressin, somatostatin and analogues, vasopressin + nitroglycerin
- Endoscopic therapy: ligation, sclerotherapy
- Shunt therapy: TIPS, surgical shunt

#### Prophylactic Antibiotics Improve Outcomes in Cirrhotic Patients with GI Hemorrhage

	Control (n=270)	Antibiotic (n=264)	Absolute rate difference (95% Cl)
Infection	45%	14%	<b>-32%</b> (-42 to –23)
SBP / Bacteremia	27%	8%	<b>-18%</b> (-26 to -11)
Death	24%	15%	<b>-9%</b> (-15 to -3)

Bernard et al., Hepatology 1999; 29:1655

#### Early Administration of Terlipressin/Nitroglycerin Improves Control of Active Variceal Hemorrhage



Levacher et al., Lancet 1995; 346:865

#### Combination Drug / Endoscopic Therapy is More Effective Than Endoscopic Therapy Alone in Achieving Five-Day Hemostasis



Bañares R et al., Hepatology 2002; 35:609

## **Endoscopic Variceal Band Ligation**

- Bleeding controlled in 90%
- Rebleeding rate 30%

Compared with sclerotherapy:
Less rebleeding
Lower mortality
Fewer complications
Fewer treatment sessions



## **Transjugular Intrahepatic Portosystemic Shunt**

**Portal vein** 

Hepatic

TIPS

vein

\_ Splenic vein

Superior mesenteric vein

## TRANSJUGULAR INTRAHEPATIC PORTOSYSTEMIC SHUNT (TIPS)

## **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)

### **Treatment of Varices / Variceal Hemorrhage**



**Variceal Hemorrhage Suspected** 

**Variceal Hemorrhage Suspected** 

Initial Management

- Transfuse to hemoglobin ~ 8 g/dL
  Early pharmacotherapy
- Early pharmacotherapy
  Antibiotic prophylaxis

#### Variceal Hemorrhage Suspected











## **Treatment of Varices / Variceal Hemorrhage**



