







8TH - 10TH NOVEMBER, 2024 | GRAND HYATT MUMBAI

Registration number: 322

<u>Title of the presentation:</u>

PERCUTANEOUS TRANSHEPATIC APPROACH TO PORTOSYSTEMIC SHUNT PROCEDURE FOR ACUTE VARICEAL HAEMORRHAGE

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SPECTRUM INDIA 2024

BRIEF HISTORY

- 55 year old Male
- Chronic Alcoholic
- Complaints of acute variceal hemorrhage
- MELD Sodium Score: 16
- No known comorbidities
- Diagnosed as a case of Liver Cirrhosis with Portal Hypertension

LAB PARAMETERS

Hemoglobin	10.2
Platelets	1,40,000
Total Bilirubin	5
Direct Bilirubin	1.8
Indirect Bilirubin	3.2
INR	1.3
Serum Creatinine	1.1
Sodium	138



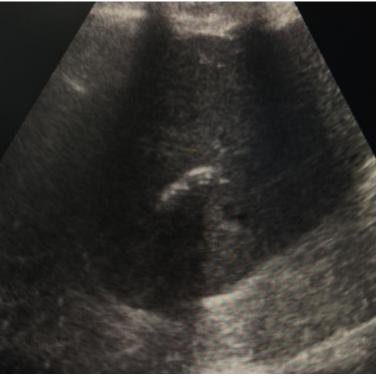
Plan of Management:

- Patient was planned to undergo Trans jugular Intrahepatic Portosystemic Shunting (TIPSS).
- On table USG for Jugular assessment revealed significant occlusion of bilateral IJVs and brachiocephalic veins with multiple surrounding collaterals.
- The plan for access had to be reassessed.
- Next Step??

CONSIDER PERCUTANEOUS
TRANSHEPATIC ACCESS

STEPS

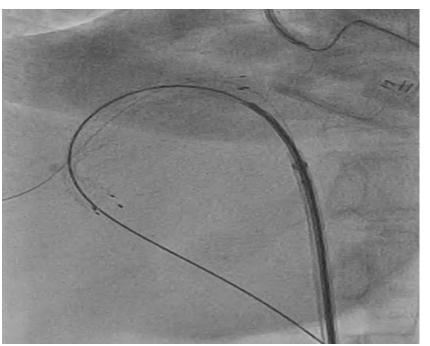


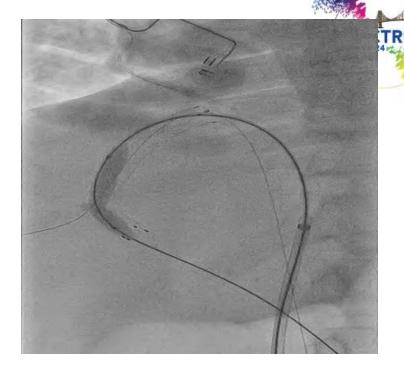




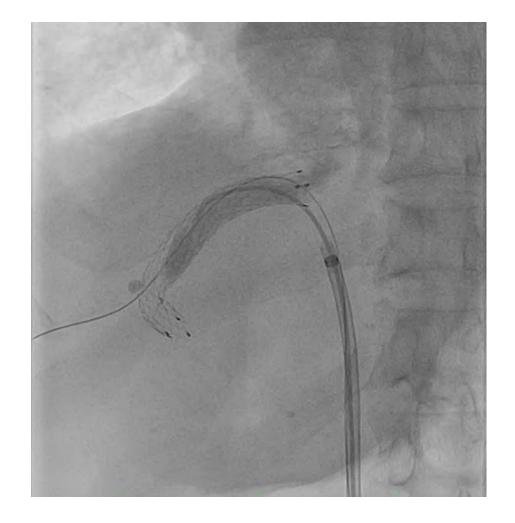
- ❖ USG Guided puncture with 22 G Chibba Needle taken into the portal vein and confirmed on fluoroscopy.
- The needle was then advanced into the hepatic vein and the communication between the portal vein and hepatic vein confirmed on fluoroscopy.
- ❖ 0.018 wire was then passed through the needle and was snared in the IVC from left femoral vein access.







- ❖ Balloon dilatation of the tract done.
- ❖ 10 x 80 mm stent graft was deployed followed by balloon angioplasty at the site of narrowing.



❖ Post balloon DSA shows good flow across the stent.

FOLLOW UP:

- * Resolution of variceal hemorrhage
- Good flow in stent at 2 months follow up on Ultrasound





PUNCTURE:

- 21 G Chibba Needle
- 0.014 grand slam wire

FEMORAL ROUTE:

- Snare
- JR Catheter
- 4 mm Balloon (0.018 compatible) for tract dilatation
- 0.018 roadrunner wire
- 0.035 guidewire
- 10 Fr Long Sheath Braided ASD Moulin Sheath
- Amplatz Stiff Wire
- Fluency 10 x 80 mm Stent graft
- 8 mm Balloon (0.035 compatible) for post stenting plasty



Conclusion:

- Difficult access through the jugular vein for shunt creation should not deter the plans for creating a portosystemic shunt.
- Percutaneous transhepatic puncture of portal vein and hepatic vein could be achieved without the use of sophisticated instruments.
- Out of the box solutions might be useful in certain cases, however their use should be reserved for situations when nothing else could likely work.