

Transjugular Intrahepatic Portosystemic Shunt (TIPS)

[Q-TIPS giving Transjugular Shunt](#)

TIPS, or transjugular intrahepatic portosystemic shunt is a nonsurgical procedure that creates a shunt. This shunt connects systemic and portal venous systems, which redirects portal blood flow to reduce venous pressure. This is done by puncturing the wall of the hepatic vein and using a catheter to connect it to the portal vein. This is contraindicated in those with severe hepatic encephalopathy.

Hepatic Encephalopathy

Lactulose

[Black-tulip](#)

Lactulose is used to eliminate ammonia in the blood stream. It does so by acidifying the feces in the bowel, trapping ammonia, allowing it to be eliminated during defecation.

Antibiotics

[ABX-guy](#)

Antibiotics like rifaximin (Xifaxan) work to decrease bacterial flora, which normally would form ammonia in the gut. Removing these bacteria decreases ammonia formation.