

	Portal Systemic Anastomosis - HTN			
	Location	Portal Vein Tributaries	Caval Tributaries	Note
Α	Lower end of Esophagus	Left Gastric Vein	Azygos & Hemiazygos Veins	Esophageal Varices → Hematemesis
В	Lower end of Anal Canal	Superior Rectal Vein	Inferior & Middle Rectal Veins	Food passing through Esophagus may rupture dilated veins Varicosity → Hemorrhoids
		Drains into IMV	Drains into internal Iliac vein	
С	Umbilicus	Para-Umbilical Veins	Tributaries of Superior &	Caput Medussae
	Anterior abdominal wall	Along ligamentum teres	Inferior Epigastric Veins	Dilated tortuous veins radiating from the umbilicus
n	Retroperitoneal Organs	Veins of colon, duodenum,	Veins of Renal, Lumbar,	Dilated veins around the posterior abdominal wall
		pancreas, spleen, etc.	azygos, etc.	Can't see clinically
	Bare area of the Liver	Venous Sinusoids of Liver	Diaphragmatic Veins - Intercostal & Phrenic	

Portal-Caval anastomoses enlarge during portal hypertension, in which there is resistance to intrahepatic blood flow. This forces the blood in the portal venous system to take an alternate route (the caval systemic venous system) back to the heart. The increased blood flow leads to enlargement of blood vessels and could possibly lead to a rupture of the anastomosis. This table outlines the main sites of anastomosis, the vessels involved, and the consequences of each.



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