

LIVER ANATOMY: LOBES & BLOOD SUPPLY

ANATOMICAL LOBE	PRIMARY ARTERIAL SUPPLY (OXYGENATED)	VENOUS DRAINAGE (DEOXYGENATED)
Right Lobe	<p>Right Hepatic Artery</p> <p>Supplies segments V, VI, VII, and VIII.</p>	<p>Right Hepatic Vein</p> <p>Drains directly into the Inferior Vena Cava (IVC).</p>
Left Lobe	<p>Left Hepatic Artery</p> <p>Supplies segments II, III, and IV (Quadrate).</p>	<p>Left Hepatic Vein</p> <p>Drains segments II and III; joins IVC.</p>
Caudate Lobe	<p>R & L Hepatic Arteries</p> <p>Dual supply from both major arterial branches.</p>	<p>Short Hepatic Veins</p> <p>Unique independent drainage directly into the IVC.</p>
Quadrate Lobe	<p>Left Hepatic Artery</p> <p>Functionally considered part of the left medial segment.</p>	<p>Middle Hepatic Vein</p> <p>Primary drainage via the middle hepatic system.</p>

Note: 75% of total liver blood flow is supplied by the **Hepatic Portal Vein** (Nutrient-rich), while 25% is supplied by the **Hepatic Artery** (Oxygen-rich).