

LIVER ANATOMY: LOBES & COUINAUD SEGMENTS

Anatomical Lobes

Right Lobe	Largest lobe, separated by falciform ligament.
Left Lobe	Smaller, flattened functional lobe.
Caudate Lobe	Posterior aspect (Segment I).
Quadrangle Lobe	Inferior aspect, adjacent to gallbladder.

Functional Segments

Segment	Description
I	Caudate Lobe
II	Left Superior Lateral
III	Left Inferior Lateral
IVa	Left Superior Medial
IVb	Left Inferior Medial
V	Right Inferior Anterior
VI	Right Inferior Posterior
VII	Right Superior Posterior
VIII	Right Superior Anterior

Clinical Note: The Couinaud classification divides the liver into 8 functionally independent segments, each with its own vascular inflow, outflow, and biliary drainage. This allows for surgical resection of individual segments without compromising the remaining tissue.