

To study the extra and intrahepatic arterial anatomy of liver as applied to liver transplantation

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The emergence of split and living donor liver transplantation (LDLT) has necessitated re-evaluation of liver anatomy in greater depth and from a different perspective than before. Preoperative evaluation of arterial anatomy of liver is essential during living adult liver transplantation to ensure a complete vascular and biliary supply to both donor and recipient. Division of or damage to a hepatic artery owing to the ignorance of the variations may induce subsequent liver ischemia. Most of the previous studies have focused only on origins of right and left hepatic artery. Knowledge regarding segmental branching of right & left hepatic artery is of great help for right or left liver harvesting. 60 cadaveric livers specimens were dissected to study the extra and intra hepatic segmental arterial anatomy of liver. Anatomic variations were recorded & classified. Hepatic artery was classified according to Michels description. Classical pattern was observed in 53% of liver specimens. In 17% of liver specimens, variations observed could not be included in the Michels classification & some of these have not been recorded earlier to the best of our knowledge. Segmental branching pattern of RHA was classified according to a peripheral classification proposed by Arnold Rathke in 2009. Variant RHA branching pattern was classified into 4 subtypes. The authors propose a classification of left hepatic artery (LHA) as we could not come across a standard previous segmental LHA classification. LHA was classified into three types based upon its origin and segmental branching pattern.

Biography

Daisy Sahni has completed her Ph.D. at the age of 28 years from Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India. She is the Head of the Department of Anatomy, PGIMER, Chandigarh, India. She has published more than 50 papers in reputed national and international journals.

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