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Split liver transplantation: What's unique?

Aparna R Dalal

Abstract

The intraoperative management of split liver transplantation has some unique features as compared to routine whole liver transplantations. Only the liver has this special ability to regenerate that confers benefits in survival and quality of life for two instead of one by splitting livers. Primary graft dysfunction may result from small for size syndrome. Graft weight to recipient body weight ratio is significant for both trisegmental and hemiliver grafts. Intraoperative surgical techniques aim to reduce portal hyperperfusion and decrease venous portal pressure. Ischemic preconditioning can be instituted to protect against ischemic reperfusion injury which impacts graft regeneration. Advancement of the technique of split liver transplantation is essential as use of split cadaveric grafts expands the donor pool and potentially has an excellent future.

Key words: Split liver transplantation; Small for size syndrome; Graft to recipient body weight ratio: Hemiliver grafts; Portal hyperperfusion

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