

Implantation of a Partial Liver Graft from a Live Donor

Surgical Technique of Living Donor Liver Transplantation

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Abstract : We have experienced six living donor liver transplantations (LDLT) so far. In this article, we discuss our procedure of LDLT focusing on the surgical techniques of implantation for a partial liver graft. Six LDLT operations performed from May 2005 to December 2007 were analyzed. Data were obtained from the operative record in the charts. A total hepatectomy was carried out for the preparation of LDLT. The inferior vena cava (IVC) was preserved, and the hepatic veins were divided at their orifices. Among our 6 cases, 5 were left liver grafts and one was right lateral sector graft. A single large hepatic vein anastomosis orifice was reconstructed. The portal vein anastomosis was made in an end-to-end fashion. From case number 4, microsurgery was applied for hepatic artery anastomosis. Duct-to-duct anastomosis was utilized for biliary reconstruction. There was no anastomosis-related postoperative complication in vascular anastomosis. Two out of our 6 cases developed delayed stricture at biliary anastomosis 6 month after surgery. The procedure of LDLT is meticulous. The further establishment of the surgical technique and the accumulation of patients for transplant team are thus mandatory.

Key words : Livingdonor liver transplantation (LDLT), Partial liver graft