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TECHNICAL CHARACTERISTICS AND RESULTS OF HEPATIC ARTERY RECONSTRUCTION IN LIVING DONOR LIVER TRANSPLANTATION USING RIGHT LOBE GRAFT

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Background : To evaluate the technical characteristics and results of hepatic artery (HA) reconstruction in right lobe graft living donor liver transplantation.

Methods : The prospective study was performed on 52 cases of living donor liver transplantation using right lobe graft at 108 Military Central Hospital from January 2019 to December 2020.

Results : 100% of the hepatic arteries anatomical reconstructions were performed under surgical loupes of magnification 3,5X in an end-to-end fashion with parachute technique using continuous 8-0 Prolene sutures. A total of 2/52 cases with mild intimal dissection need to cut back the dissected artery to get a healthy undissected stump (3,8%) and 2/52 cases need to use the other undissected HA (3,8%). Two recipients required intraoperative redo anastomosis 1-2 times due to stenosis of the first anastomosis. The median follow-up period in 52 patients was 29 months. Hepatic artery stenosis was diagnosed and treated successfully by internal treatment in 1 case (1,9%).

Conclusions : It is necessary to assess the intimal dissection of HA before transplantation to select the most appropriate reconstruction method. The parachute technique of HA reconstruction under surgical loupes of magnification 3,5X is safe and effective.

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