

**EP078****Early experience of pure minimally invasive donor hepatectomy by junior surgeon****Dai Hoon HAN**¹, Jae Geun LEE², Dong Jin JOO², Gi Hong CHOI¹, Jin Sub CHOI¹¹Division of Hepatobiliary and Pancreatic Surgery, Department of Surgery, Yonsei University College of Medicine, Korea²Division of Transplantation Surgery, Department of Surgery, Yonsei University College of Medicine, Korea

Introduction : Although the pure minimally invasive donor hepatectomy (PMIDH) has been increasingly performed, it is still reported by experienced surgeons. Here we reported the early experience of PMIDH by junior surgeon.

Methods : From April 2019 to November 2020, PMIDHs were performed for 19 patients by single novice surgeon (H.D.H) at Yonsei University College of Medicine. Clinical characteristics, perioperative outcomes of donors and clinical features of recipients were analyzed.

Results : 18 of 19 donors had pure laparoscopic liver resection. Right, left hemihepatectomies and left lateral sectionectomies were performed for 15, 1 and 3 donors, respectively. Mean total operation time was 460.63 ± 70.89 minutes and median operative bleeding was 200 mL (50 ~ 1600mL). Median hospital stay was 8 (7 ~ 11) days. In terms of laparoscopic donor right hemihepatectomy, mean total operation time was 464.21 ± 43.52 minutes. Median amount of bleeding during operation was 225 mL (50 ~ 1600mL). Mean estimated total liver volume was 1228.26 ± 217.01 (935.80~1584.90) and mean real graft weight was 764.86 ± 153.46 (529.00~1077.00). The robotic donor right hemihepatectomy was performed for one donor. Total operation time was 663 minutes with 550 mL of operative bleeding. There was no conversion to open surgery. Only the first donor had transfusion during operation. There was no severe perioperative complication more than grade III according to classification of Clavien-Dindo surgical complication.

Conclusions : Although the PMIDH may need high level of surgical skill, it appears to be a safe and feasible procedure by junior surgeon in properly selected donors.

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