World J Clin Cases 2022 June 6; 10(16): 5124-5517





Contents

Thrice Monthly Volume 10 Number 16 June 6, 2022

OPINION REVIEW

5124 Malignant insulinoma: Can we predict the long-term outcomes?

Cigrovski Berkovic M, Ulamec M, Marinovic S, Balen I, Mrzljak A

MINIREVIEWS

5133 Practical points that gastrointestinal fellows should know in management of COVID-19

Sahin T, Simsek C, Balaban HY

5146 Nanotechnology in diagnosis and therapy of gastrointestinal cancer

Liang M, Li LD, Li L, Li S

5156 Advances in the clinical application of oxycodone in the perioperative period

Chen HY, Wang ZN, Zhang WY, Zhu T

ORIGINAL ARTICLE

Clinical and Translational Research

5165 Circulating miR-627-5p and miR-199a-5p are promising diagnostic biomarkers of colorectal neoplasia

Zhao DY, Zhou L, Yin TF, Zhou YC, Zhou GYJ, Wang QQ, Yao SK

Retrospective Cohort Study

5185 Management and outcome of bronchial trauma due to blunt versus penetrating injuries

Gao JM, Li H, Du DY, Yang J, Kong LW, Wang JB, He P, Wei GB

Retrospective Study

5196 Ovarian teratoma related anti-N-methyl-D-aspartate receptor encephalitis: A case series and review of the literature

Li SJ, Yu MH, Cheng J, Bai WX, Di W

Endoscopic surgery for intraventricular hemorrhage: A comparative study and single center surgical 5208 experience

Wang FB, Yuan XW, Li JX, Zhang M, Xiang ZH

5217 Protective effects of female reproductive factors on gastric signet-ring cell carcinoma

Li Y, Zhong YX, Xu Q, Tian YT

5230 Risk factors of mortality and severe disability in the patients with cerebrovascular diseases treated with perioperative mechanical ventilation

Zhang JZ, Chen H, Wang X, Xu K

Contents

Thrice Monthly Volume 10 Number 16 June 6, 2022

5241 Awareness of initiative practice for health in the Chinese population: A questionnaire survey based on a network platform

Zhang YQ, Zhou MY, Jiang MY, Zhang XY, Wang X, Wang BG

5253 Effectiveness and safety of chemotherapy for patients with malignant gastrointestinal obstruction: A Japanese population-based cohort study

Fujisawa G, Niikura R, Kawahara T, Honda T, Hasatani K, Yoshida N, Nishida T, Sumiyoshi T, Kiyotoki S, Ikeya T, Arai M, Hayakawa Y, Kawai T, Fujishiro M

Observational Study

Long-term outcomes of high-risk percutaneous coronary interventions under extracorporeal membrane 5266 oxygenation support: An observational study

Huang YX, Xu ZM, Zhao L, Cao Y, Chen Y, Qiu YG, Liu YM, Zhang PY, He JC, Li TC

5275 Health care worker occupational experiences during the COVID-19 outbreak: A cross-sectional study Li XF, Zhou XL, Zhao SX, Li YM, Pan SQ

Prospective Study

5287 Enhanced recovery after surgery strategy to shorten perioperative fasting in children undergoing nongastrointestinal surgery: A prospective study

Ying Y, Xu HZ, Han ML

5297 Orthodontic treatment combined with 3D printing guide plate implant restoration for edentulism and its influence on mastication and phonic function

Yan LB, Zhou YC, Wang Y, Li LX

Randomized Controlled Trial

5306 Effectiveness of psychosocial intervention for internalizing behavior problems among children of parents with alcohol dependence: Randomized controlled trial

Omkarappa DB, Rentala S, Nattala P

CASE REPORT

5317 Crouzon syndrome in a fraternal twin: A case report and review of the literature

Li XJ, Su JM, Ye XW

5324 Laparoscopic duodenojejunostomy for malignant stenosis as a part of multimodal therapy: A case report

Murakami T, Matsui Y

5331 Chordoma of petrosal mastoid region: A case report

Hua JJ, Ying ML, Chen ZW, Huang C, Zheng CS, Wang YJ

5337 Pneumatosis intestinalis after systemic chemotherapy for colorectal cancer: A case report

Liu H, Hsieh CT, Sun JM

5343 Mammary-type myofibroblastoma with infarction and atypical mitosis-a potential diagnostic pitfall: A case report

Π

Zeng YF, Dai YZ, Chen M

Contents

Thrice Monthly Volume 10 Number 16 June 6, 2022

5352 Comprehensive treatment for primary right renal diffuse large B-cell lymphoma with a renal vein tumor thrombus: A case report

He J, Mu Y, Che BW, Liu M, Zhang WJ, Xu SH, Tang KF

5359 Ectopic peritoneal paragonimiasis mimicking tuberculous peritonitis: A care report

Choi JW, Lee CM, Kim SJ, Hah SI, Kwak JY, Cho HC, Ha CY, Jung WT, Lee OJ

5365 Neonatal hemorrhage stroke and severe coagulopathy in a late preterm infant after receiving umbilical cord milking: A case report

Lu Y, Zhang ZQ

5373 Heel pain caused by os subcalcis: A case report

Saijilafu, Li SY, Yu X, Li ZQ, Yang G, Lv JH, Chen GX, Xu RJ

5380 Pulmonary lymphomatoid granulomatosis in a 4-year-old girl: A case report

Yao JW, Qiu L, Liang P, Liu HM, Chen LN

5387 Idiopathic membranous nephropathy in children: A case report

Cui KH, Zhang H, Tao YH

5394 Successful treatment of aortic dissection with pulmonary embolism: A case report

Chen XG, Shi SY, Ye YY, Wang H, Yao WF, Hu L

5400 Renal papillary necrosis with urinary tract obstruction: A case report

Pan HH, Luo YJ, Zhu QG, Ye LF

5406 Glomangiomatosis - immunohistochemical study: A case report

Wu RC, Gao YH, Sun WW, Zhang XY, Zhang SP

5414 Successful living donor liver transplantation with a graft-to-recipient weight ratio of 0.41 without portal flow modulation: A case report

Kim SH

5420 Treatment of gastric hepatoid adenocarcinoma with pembrolizumab and bevacizumab combination chemotherapy: A case report

Liu M, Luo C, Xie ZZ, Li X

5428 Ipsilateral synchronous papillary and clear renal cell carcinoma: A case report and review of literature

Yin J, Zheng M

5435 Laparoscopic radical resection for situs inversus totalis with colonic splenic flexure carcinoma: A case

Ш

Zheng ZL, Zhang SR, Sun H, Tang MC, Shang JK

5441 PIGN mutation multiple congenital anomalies-hypotonia-seizures syndrome 1: A case report

Hou F, Shan S, Jin H

Contents

Thrice Monthly Volume 10 Number 16 June 6, 2022

- 5446 Pediatric acute myeloid leukemia patients with i(17)(q10) mimicking acute promyelocytic leukemia: Two case reports
 - Yan HX, Zhang WH, Wen JQ, Liu YH, Zhang BJ, Ji AD
- 5456 Fatal left atrial air embolism as a complication of percutaneous transthoracic lung biopsy: A case report Li YW, Chen C, Xu Y, Weng QP, Qian SX
- 5463 Diagnostic value of bone marrow cell morphology in visceral leishmaniasis-associated hemophagocytic syndrome: Two case reports
 - Shi SL, Zhao H, Zhou BJ, Ma MB, Li XJ, Xu J, Jiang HC
- 5470 Rare case of hepatocellular carcinoma metastasis to urinary bladder: A case report Kim Y, Kim YS, Yoo JJ, Kim SG, Chin S, Moon A
- 5479 Osteotomy combined with the trephine technique for invisible implant fracture: A case report Chen LW, Wang M, Xia HB, Chen D
- 5487 Clinical diagnosis, treatment, and medical identification of specific pulmonary infection in naval pilots: Four case reports
 - Zeng J, Zhao GL, Yi JC, Liu DD, Jiang YQ, Lu X, Liu YB, Xue F, Dong J
- 5495 Congenital tuberculosis with tuberculous meningitis and situs inversus totalis: A case report Lin H, Teng S, Wang Z, Liu QY
- 5502 Mixed large and small cell neuroendocrine carcinoma of the stomach: A case report and review of literature
 - Li ZF, Lu HZ, Chen YT, Bai XF, Wang TB, Fei H, Zhao DB

LETTER TO THE EDITOR

- 5510 Pleural involvement in cryptococcal infection
 - Georgakopoulou VE, Damaskos C, Sklapani P, Trakas N, Gkoufa A
- Electroconvulsive therapy plays an irreplaceable role in treatment of major depressive disorder 5515 Ma ML, He LP

ΙX

Contents

Thrice Monthly Volume 10 Number 16 June 6, 2022

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Editorial Board Member of World Journal of Clinical Cases, Shivanshu Misra, MBBS, MCh, MS, Assistant Professor, Surgeon, Department of Minimal Access and Bariatric Surgery, Shivani Hospital and IVF, Kanpur 208005, Uttar Pradesh, India. shivanshu medico@rediffmail.com

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CASE REPORT

Successful living donor liver transplantation with a graft-to-recipient weight ratio of 0.41 without portal flow modulation: A case report

Seong Hoon Kim

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Seong Hoon Kim, Center for Liver Cancer, National Cancer Center, Goyang 10408, Gyeonggido, South Korea

Corresponding author: Seong Hoon Kim, MD, PhD, Chief Doctor, Professor, Senior Scientist, Surgeon, Center for Liver Cancer, National Cancer Center, 323 Ilsan-ro, Ilsandong-gu, Goyang 10408, Gyeonggi-do, South Korea. kshlj@hanmail.net

Abstract

BACKGROUND

There have been numerous efforts to lower the limit of minimum graft size to meet the metabolic demand of recipients in adult-to-adult living donor liver transplantation (LDLT). We experienced a successful case of LDLT using a verysmall-for-size graft without portal flow modulation such as splenectomy or portocaval shunt.

CASE SUMMARY

A 49-year-old man (weighing 91 kg) suffering hepatocellular carcinoma accompanied with hepatitis B virus related cirrhosis underwent LDLT. The one and only voluntary donor was his 17-year-old daughter whose body weight was 50 kg with a body mass index (BMI) of 18.3. The procured right liver graft was 411 g with a real graft-to-recipient weight ratio (GRWR) of 0.41%, the smallest to be reported in the literature. Both the recipient and donor had an uneventful recovery and were discharged on days 15 and 8, respectively, with normal liver function. The father and daughter have had no complication so far and are still in good health with normal liver function 81 mo after LDLT.

CONCLUSION

Satisfactory outcomes can be achieved in LDLT with a GRWR as low as 0.41% even without using portal flow modulation in highly selected patients.

Key Words: Small-for-size graft; Living donor liver transplantation; Graft-to-recipient weight ratio; Case report

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Core Tip: Satisfactory outcomes was achieved in living donor liver transplantation with a graft-to-recipient weight ratio as low as 0.41%, the smallest to be reported in the literature, even without using portal flow modulation in a highly selected patient.

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INTRODUCTION

How small is too small in terms of a graft-to-recipient weight ratio (GRWR)? The graft size is one of the most critical factors to consider in adult-to-adult living donor liver transplantation (LDLT), and smallfor-size syndrome can reportedly occur in patients receiving a small-for-size graft (SFSG) unless the grafts meet the metabolic demands of the recipients[1]. Traditionally, a GRWR ≥ 0.8% has been recommended to improve the graft survival and prevent the early graft dysfunction[2]. However, there is no clear evidence on whether SFSG (GRWR < 0.8) is dangerous for LDLT recipients. The minimum graft size still remains to be defined. In the current era of LDLT performed worldwide, selecting and making SFSGs suitable for recipients can be the last resort to the deteriorating patients who have no other donor candidate.

Herein described is a case of a 49-year-old man who showed long-term favorable clinical outcomes after LDLT using a right liver graft with a GRWR of 0.41. We present the case in accordance with the CARE reporting checklist.

CASE PRESENTATION

Chief complaints

A 49-year-old man was referred to the author's institution for evaluation of LDLT for hepatocellular carcinoma (1 nodule, 2.5 cm in diameter) and hepatitis B virus-related liver cirrhosis.

History of present illness

Hepatocellular carcinoma (1 nodule, 2.5 cm in diameter) and hepatitis B virus-related liver cirrhosis.

Personal and family history

There were no history of smoking or drinking, and no family history of cancers.

Physical examination

The patient's height was 183 cm and his weight was 99 kg with a body mass index of 29.5. His body surface area was calculated to be 2.2 m².

Laboratory examinations

The patient's liver function was not severely impaired [Child-Pugh A class and model for end-stage liver disease (MELD) score 10]. The platelet count was reduced to 68 per microliter of blood.

Imaging examinations

Preoperative computed tomographic (CT) volumetry showed the volume of this area to be 553.2 mL; expected graft-to-recipient weight ratio (GRWR) was 0.55; and expected graft-to-standard liver volume (GV/SLV) was 27.5%.

FINAL DIAGNOSIS

Hepatocellular carcinoma (1 nodule, 2.5 cm in diameter) and hepatitis B virus-related liver cirrhosis.

TREATMENT

The only donor available for LDLT was his daughter. The donor and recipient had the same blood group and the LDLT were approved by KONOS (Korean Network for Organ Sharing). The LDLT was conducted on December 15, 2014. All the main procedures were performed by one surgeon(Seong Hoon Kim). He performed donor hepatectomy, bench procedure, recipient hepatectomy, and graft implantation. In recipient hepatectomy, a junior surgeon opened the abdomen and mobilized both lobes of the liver while the surgeon completed donor hepatectomy and bench procedure. Then he came over to the recipient operating room. He performed the hilar dissection and complete mobilization of the liver from the inferior vena cava. Donor surgery was performed as previously reported[5]. The intraoperative wedge biopsy specimen revealed 5% of macrovesicular steatosis. Operation time was 170 min with minimal blood loss. The real weight of the resected right liver was 411 g, which was much smaller than the preoperatively predicted value by CT volumetry. The real GRWR was 0.41 and GV/SLV was 20.4%, which surely implied a very-small-for-size graft.

During bench preparation, two sizable tributaries (V5 and V8) of the middle hepatic vein were reconstructed using a cryopreserved iliac vein graft. In the recipient, eversion thrombectomy was performed for partial bland thrombosis in the main portal vein following total hepatectomy. After the anastomoses of the hepatic vein and portal vein, the reperfusion revealed neither severe congestion of the small graft nor uncontrollable bleeding from the cut surface of the graft. So, no additional modulation was done intraoperatively. The donor's single right hepatic artery 1.5 mm in diameter was anastomosed with the recipient's right hepatic artery 2 mm in diameter. Doppler ultrasonography showed good vascular flows in all the vessels reconstructed in the graft. The graft was finally transplanted with a duct-to-duct biliary reconstruction. The cold ischemia time was 75 min; warm ischemia time was 25 min; and anhepatic stage was 102 min. Operation time was 8 h and 8 min. Blood loss was 4000 mL.

OUTCOME AND FOLLOW-UP

After LDLT, the patient recovered with improving laboratory findings with time. On the day before LDLT, the AST level was 50 U/L and the ALT level was 46 U/L. On postoperative day (POD) 1, these levels were 68 U/L and 76 U/L, respectively; on POD 3, 33 U/L and 41 U/L, respectively; on POD 15, 28 U/L and 27 U/L, respectively. The serum total bilirubin level that had been 1.4 mg/dL just before LDLT was elevated to 6.7 mg/dL on POD 1 but gradually decreased to 1.6 mg/dL on POD 7, and then was 0.4 mg/dL on POD 15 at discharge. The international normalized ratio was 1.19 before LDLT, but it increased to 2.32 on POD 1. The ratio was 1.68 on POD 3 and 1.43 on POD 7. The ratio recovered to 1.01 on POD 15.

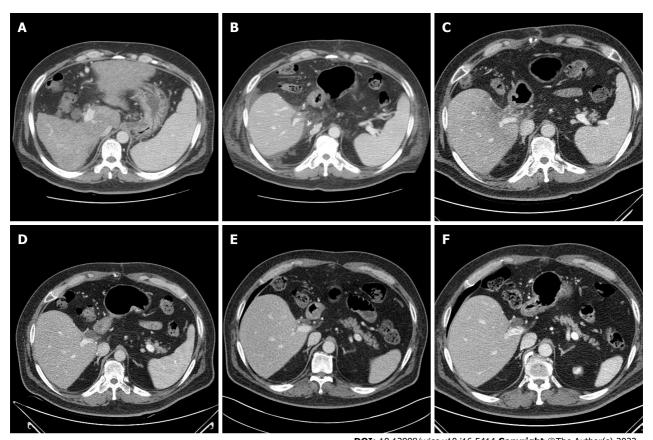
Routine follow-up computerized tomography (CT) on POD 9 showed no abnormal findings except for V8 occlusion and slight right pleural effusion. The postoperative course was not eventful. There had been no signs of small-for-size syndrome such as prolonged ascites, jaundice, and hyperammonemia. The recipient was discharged without complications with normal liver function from the hospital on POD 15, and the donor checked out on day 8 safe and sound.

A follow-up CT scan showed sufficient liver regeneration in the recipient (Figure 1). It has been 6 years and 9 mo since the LDLT and both the donor and recipient are still in good conditions with normal liver function, having full satisfaction with the outcomes that they got from this LDLT.

DISCUSSION

This is the smallest GRWR ever reported in LDLT even without portal flow modulation. And it had shown favorable long-term clinical outcomes. Actually, the patient was recommended to receive dual liver grafts at another hospital due to a low GRWR. There have been many efforts made to use the SFSG that was defined as having a GRWR < 0.8. A decade ago, there was a report that the lower limit of GRWR can be safely reduced to 0.6% in adult-to-adult LDLT in combination with portal inflow modulation[6]. The threshold of GRWR was further reduced to 0.58 with hemi-portocaval shunt[7]. Furthermore, the record had already been broken so that a successful LDLT using a right lateral segment with a GRWR of 0.47 was reported by virtue of splenectomy and mesocaval shunt[8]. There was an interesting report that a 60-year-old woman received a whole liver graft with an estimated GRWR of 0.46% from a 10-year-old child deceased donor with splenectomy in order to prevent the potential risk of developing small-for-size syndrome. However, the actual GRWR was 0.8[9].

On the contrary, there were also several studies without portal inflow modulation, suggesting that it would be difficult to deny a living donor candidate the opportunity to donate one's partial liver solely based on the graft size in terms of GRWR. Two retrospective studies found no significant differences in both the incidence of SFSS and graft survival between GRWR < 0.8% and GRWR ≥ 0.8% [10,11].



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Figure 1 Computed tomography images. A: Pretransplant day 3; B: Postoperative day 9; C: Postoperative month 3; D: Postoperative month 15; E: Postoperative month 35; and F: Postoperative month 76.

All the previous reports had it that the GRWR could be lowered to below 0.8%. However, the lower limit still remains unanswered as of now. The safety limit of SFSG can be closely related to the factors of the donor, recipient, and surgical technique [12]. Therefore, the good outcomes of this LDLT with a GRWR of 0.41 could be attributed to the following reasons: (1) The donor was young without significant hepatic steatosis or other parenchymal disease; (2) The patient's condition was not so bad at the time of LDLT, being reflected by a low MELD score. And he had no other underlying disease except for liver cirrhosis of Child-Pugh A class; (3) The graft had no long ischemic time, and the graft implantation resulted in no derangements in the vascular inflow and outflow, which could be corroborated by the observation that the AST and ALT levels were maintained at less than 100 U/L throughout hospital stay; and (4) The patient had no postoperative morbidity such as infection, rejection, and vascular or biliary complication. Any complication may tip the balance of patient recovery especially in patients with SFSG.

On the other hand, if serious liver congestion or cut surface bleeding had developed after reperfusion or the small-for-size syndrome had happened postoperatively and the liver function had become worse, portal flow modulation would have been considered to reduce the graft damage. Portal flow modulation is not without untoward events. Portocaval shunt may lead to excessive diversion of portal flow, leading to graft failure. Splenic artery embolization or ligation could cause a massive splenic colliquation. Further experiences and studies might be needed to determine the indication and optimal time. Therefore, we do not do portal flow modulation routinely during operation just solely in terms of

Although this very small graft has not sufficiently been corroborated in many patients, at least it could be used as an example of extending the indication in patients awaiting transplant. The major concern is what the selection criteria are, therefore further refined studies need to be done. In clinical practice, selection of patients eligible for SFSG LDLT to achieve the best outcome and survival should be evaluated by close integration with surgical expertise, clinical (age, performance status, and MELD score) parameters, and careful patient monitoring on an individual basis.

CONCLUSION

In conclusion, satisfactory outcomes can be achieved in LDLT with a GRWR as low as 0.41% even without using portal flow modulation in highly selected patients.

FOOTNOTES

Author contributions: Kim SH conceived and designed the analysis, collected the data, performed the analysis, and wrote the paper.

Informed consent statement: Written informed consent was obtained from the patient for publication of this case report.

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Country/Territory of origin: South Korea

ORCID number: Seong Hoon Kim 0000-0001-7921-1801.

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