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**CATEGORY : INTERVENTIONAL ONCOLOGY**

**TITLE**

RESULTS OF INCREASING THE FUTURE LIVER REMNANT VOLUME AFTER PORTAL AND HEPATIC VEIN EMBOLIZATION IN HEPATOCELLULAR CARCINOMA

**BACKGROUND**

This study aimed to evaluate the portal and hepatic vein embolization (LVD) outcome before hepatectomy in patients with hepatocellular carcinoma (HCC).

**METHODS**

From January 2021 to August 2023, HCC patients with indications for hepatectomy but inadequate initial future liver remnant (FLR) were performed LVD to increase FLR before surgery.

**RESULT**

Fifty-two HCC patients with a median age of 54.5 years underwent LVD. Technical success was obtained in all cases. No LVD procedure-associated complications occurred, except for 1 case presenting with grade A liver failure after LVD (then recovered after 7 days). The FLR volume before and after LVD was 405.1 ml and 639.5 ml, respectively ( $p < 0.001$ ). The percentage of FLR of total liver volume (TLV) increased from 34.0% to 47.4% ( $p < 0.001$ ), with the percentage of hypertrophy (FLR<sub>post</sub>/FLR<sub>pre</sub>) reaching 1.5 times. All 27 patients demonstrated sufficient FLR after LVD (48 patients at three weeks post-LVD, two at six weeks, and two at ten weeks), but only 43 patients accepted surgery. Postoperative histopathology showed 27 patients with fibrosis F3-F4 and 16 with mild fibrosis F1-F2 (METAVIR). One patient presented with severe intraoperative bleeding due to damage of the left hepatic vein and developed grade C liver failure, then died on day 32 postoperation.

**CONCLUSIONS**

LVD is a safe, effective and feasible method to increase FLR in HCC patients significantly. Randomized controlled clinical trials are needed to evaluate the efficacy of LVD and compare it with other methods.

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