

Supplementary Table 2. Results of ROC curve analysis in 76 patients with a time interval between liver transplantation and US/CT of <1 year

Variable		Cut-off	Sensitivity (95% CI)	Specificity (95% CI)	AUROC (95% CI)
US parameters					
PSV	Youden index	31.1 cm/s	0.69 (0.50–0.84)	0.89 (0.75–0.96)	0.81 (0.71–0.89)
	Sensitivity=0.95	129.8 cm/s	–	0.11 (0–0.43)	
	Specificity=0.95	24.0 cm/s	0.47 (0.25–0.75)	–	
VPI	Youden index	0.40	0.72 (0.53–0.86)	0.93 (0.81–0.99)	0.86 (0.76–0.93)
	Sensitivity=0.95	0.64	–	0.32 (0.16–0.80)	
	Specificity=0.95	0.39	0.69 (0.34–0.88)	–	
CT parameters					
D _{ana}	Youden index	4.2 mm	0.91 (0.75–0.98)	0.84 (0.70–0.93)	0.92 (0.84–0.97)
	Sensitivity=0.95	5.5 mm	–	0.43 (0.23–0.66)	
	Specificity=0.95	3.4 mm	0.69 (0.47–0.88)	–	
% Stenosis	Youden index	36%	0.81 (0.64–0.93)	0.91 (0.78–0.98)	0.88 (0.78–0.94)
	Sensitivity=0.95	–2%	–	0.30 (0.02–0.89)	
	Specificity=0.95	46%	0.72 (0.49–0.91)	–	
Abnormal parenchymal enhancement	–	–	0.34 (0.19–0.53)	0.91 (0.78–0.98)	0.63 (0.51–0.74)
Nonenhancement of LHV	–	–	0.25 (0.12–0.43)	1.00 (0.92–1.00)	0.63 (0.51–0.73)
Ascites	–	–	0.44 (0.26–0.62)	0.64 (0.48–0.78)	0.54 (0.42–0.65)
Pleural effusion	–	–	0.66 (0.47–0.81)	0.55 (0.39–0.70)	0.60 (0.48–0.71)

In this subgroup, there was no significant difference in the intervals between LT and CT (1.9 vs. 2.6 months; $p=0.304$) and between LT and US (2.0 vs. 2.5 months; $p=0.488$) between the patients with and without hepatic outflow obstruction.

ROC, receiver operating characteristics; US, ultrasound; CT, computed tomography; CI, confidence interval; AUROC, area under the ROC curve; PSV, peak systolic velocity; VPI, venous pulsatility index; D_{ana}, diameter of anastomotic site on CT; LHV, left hepatic vein; LT, liver transplantation.

Supplementary Table 3. Results of ROC curve analysis in 216 patients with a distance from the inferior vena cava to the measurement site of 10–30 mm

Variable		Cut-off	Sensitivity (95% CI)	Specificity (95% CI)	AUROC (95% CI)
US parameter					
PSV	Youden index	29.3 cm/s	0.66 (0.46–0.82)	0.89 (0.83–0.93)	0.73 (0.67–0.79)
	Sensitivity=0.95	132.9 cm/s	–	0.04 (0.00–0.20)	
	Specificity=0.95	20.2 cm/s	0.31 (0.14–0.52)	–	
VPI	Youden index	0.42	0.79 (0.60–0.92)	0.89 (0.84–0.93)	0.91 (0.87–0.95)
	Sensitivity=0.95	0.63	–	0.52 (0.40–0.70)	
	Specificity=0.95	0.38	0.72 (0.55–0.90)	–	
CT parameter					
D _{ana}	Youden index	4.2 mm	0.86 (0.68–0.96)	0.83 (0.77–0.88)	0.92 (0.87–0.95)
	Sensitivity=0.95	5.6 mm	–	0.64 (0.42–0.88)	
	Specificity=0.95	3.0 mm	0.62 (0.42–0.79)	–	
% stenosis	Youden index	42%	0.79	0.93	0.89 (0.84–0.93)
	Sensitivity=0.95	1.4%	–	0.30 (0.22–0.79)	
	Specificity=0.95	46%	0.72 (0.52–0.90)	–	
Abnormal parenchymal enhancement	–	–	0.45 (0.26–0.64)	0.97 (0.94–0.99)	0.71 (0.65–0.77)
Nonenhancement of LHV	–	–	0.28 (0.13–0.47)	1.00 (0.98–1.00)	0.64 (0.57–0.70)
Ascites	–	–	0.48 (0.29–0.68)	0.84 (0.79–0.89)	0.66 (0.60–0.73)
Pleural effusion	–	–	0.69 (0.49–0.85)	0.82 (0.76–0.88)	0.76 (0.69–0.81)

ROC, receiver operating characteristics; CI, confidence interval; AUROC, area under the ROC curve; US, ultrasonography; PSV, peak systolic velocity; VPI, venous pulsatility index; CT, computed tomography; D_{ana}, diameter of anastomotic site on CT; LHV, left hepatic vein.