

### Supplementary Method 1. CT acquisition protocol.

Patients underwent at least one contrast-enhanced computed tomography (CT) examination (SOMATOM Definition Edge, SOMATOM Definition AS+, or SOMATOM Definition Flash; Siemens Healthcare, Forchheim, Germany). Arterial and portal venous phase CT images were typically obtained with a bolus-triggered technique. Unenhanced CT images were not obtained. A bolus of 1.5 mL/kg non-ionic iodinated contrast media was injected for a fixed duration of 20 seconds by an automated power injector, followed by an additional injection of 10% diluted contrast media for 10 seconds. A region of interest was placed in the left ventricle with a triggering threshold set to 150 Hounsfield units. The delay from the trigger to the initiation of scanning was 6 seconds. Portal venous phase scan timing varied, depending on the patients' weight: 50 seconds for <5 kg, 55 seconds for 5–20 kg, 60 seconds for 20–60 kg, and 65 seconds for >60 kg. The scan parameters were as follows: section thickness, 0.75 mm; interval, 0.4 mm; 80–120 kVp (<20 kg, 80 kVp; 20–60 kg, 100 kVp; >60 kg, 120 kVp), and 512×512 matrix. The scanning covered the entire liver during a single breath-hold.

**Supplementary Table 1.** Results of ROC curve analysis in 73 patients with a time interval between US and CT of <1 month

Variable		Cut-off	Sensitivity (95% CI)	Specificity (95% CI)	AUROC (95% CI)
US parameter					
PSV	Youden index	31.1 cm/s	0.66 (0.48–0.81)	0.89 (0.75–0.97)	0.78 (0.66–0.87)
	Sensitivity=0.95	119.5 cm/s	–	0.13 (0–0.32)	
	Specificity=0.95	17.8 cm/s	0.31 (0.16–0.69)	–	
VPI	Youden index	0.46	0.80 (0.63–0.92)	0.87 (0.72–0.96)	0.89 (0.79–0.95)
	Sensitivity=0.95	0.64	–	0.39 (0.21–0.61)	
	Specificity=0.95	0.23	0.37 (0.09–0.74)	–	
CT parameter					
D <sub>ana</sub>	Youden index	4.2 mm	0.86 (0.70–0.95)	0.92 (0.79–0.98)	0.93 (0.84–0.97)
	Sensitivity=0.95	5.6 mm	–	0.61 (0.43–0.76)	
	Specificity=0.95	3.8 mm	0.74 (0.49–0.91)	–	
% Stenosis	Youden index	36%	0.83 (0.66–0.93)	0.92 (0.79–0.98)	0.88 (0.78–0.94)
	Sensitivity=0.95	2%	–	0.24 (0–0.89)	
	Specificity=0.95	52%	0.63 (0.32–0.83)	–	
Abnormal parenchymal enhancement	–	–	0.37 (0.22–0.55)	0.92 (0.79–0.98)	0.65 (0.53–0.76)
Nonenhancement of LHV	–	–	0.29 (0.14–0.46)	1.00 (0.91–1.00)	0.64 (0.52–0.75)
Ascites	–	–	0.43 (0.26–0.61)	0.76 (0.60–0.89)	0.60 (0.48–0.71)
Pleural effusion	–	–	0.63 (0.45–0.79)	0.79 (0.63–0.90)	0.71 (0.59–0.81)

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<sub>ana</sub>, diameter of anastomotic site on CT; LHV, left hepatic vein.