

Supplementary Table 1 Preoperative recipient characteristics according the presence of portal vein thrombosis

Basic characteristics	Overall	%	No portal vein thrombosis	%	Portal vein thrombosis	%	P value
<i>n</i>	25	100,0%	9	36,00%	16	64,0%	
Sex (male)	13	52,0%	5	55,56%	8	50,0%	1,000
Age by the time of transplant (years)	53,72 [10,00-78,00;15,54]**		48,33 [10,00-78,00;22,32]**		56,75 [43,00-72,00;9,68]**		0,308
Body composition							0,326
Underweight	2	8,0%	1	11,11%	1	6,3%	
Normal	12	48,0%	6	66,67%	6	37,5%	
Overweight	8	32,0%	1	11,11%	7	43,8%	
Obesity	3	12,0%	1	11,11%	2	12,5%	
Liver disease							
Transplant Indication							0,041
Biliary atresia	1	4,0%	1	11,11%	0	0,0%	
Non-alcoholic steatohepatitis	5	20,0%	1	11,11%	4	25,0%	
Alcoholic	5	20,0%	0	0,00%	5	31,3%	
Primary biliary cirrhosis	2	8,0%	0	0,00%	2	12,5%	
Autoimmune hepatitis	1	4,0%	0	0,00%	1	6,3%	
Overlap syndrome	4	16,0%	3	33,33%	1	6,3%	
Hepatitis C	2	8,0%	0	0,00%	2	12,5%	
Hepatocellular carcinoma	1	4,0%	1	11,11%	0	0,0%	
Hemochromatosis	2	8,0%	1	11,11%	1	6,3%	

Cryptogenic	1	4,0%	1	11,11%	0	0,0%	
Secondary biliary cirrhosis	1	4,0%	1	11,11%	0	0,0%	
Previous Graft Dysfunction	3	12,0%	0	0,00%	3	18,8%	0,280
Child Pugh Score B/C	22	88,0%	6	66,67%	16	100,0%	0,037
MELD Score	17,24 [7,00-37,00; 8,12]**		20,00 [12,12-24,01; 11,50]*		13,00 [11,43-20,95; 9,00]*		0,169
MELD Score >= 20 points	9	36,0%	5	55,56%	4	25,0%	0,200
Primary hepatic neoplasia	6	24,0%	4	44,44%	2	12,5%	0,142
Hepatic encephalopathy	13	52,0%	5	55,56%	8	50,0%	1,000
Ascites	19	76,0%	5	55,56%	14	87,5%	0,142
Sepsis	4	16,0%	2	22,22%	2	12,5%	0,602
Primary bacterial peritonitis	3	12,0%	0	0,00%	3	18,8%	0,280
Hypertensive gastropathy	13	52,0%	6	66,67%	7	43,8%	0,411
Esophageal varices	23	92,0%	7	77,78%	16	100,0%	0,120
Upper gastrointestinal bleeding	10	40,0%	1	11,11%	9	56,3%	0,040
Hepatorenal syndrome	3	12,0%	1	11,11%	2	12,5%	1,000
Collateral Portal Circulation	20	80,0%	6	24%	14	56,0%	0,312
Splenomegaly	18	72,0%	4	16,0%	14	52,0%	0,058
Perigastric/Periesophagic varices	12	48,0%	3	12,0%	9	36,0%	0,411

Umbilical vein								
recanalization	8	32,0%	3	12,0%	5	20,0%	1,000	
Paracaval portosystemic shunt	1	4,0%	1	4,0%	0	0,0%	0,360	
Epiploic shunts	3	12,0%	2	8,0%	1	4,0%	0,530	
Mesenteric varices	3	12,0%	1	4,0%	2	8,0%	1,000	
Splenorenal shunts	6	24,0%	2	8,0%	4	16,0%	1,000	
Comorbidities								
Diabetes mellitus	7	28,0%	0	0,00%	7	43,8%	0,027	
Dyslipidemia	4	16,0%	3	33,33%	1	6,3%	0,116	
Arterial hypertension	6	24,0%	1	11,11%	5	31,3%	0,364	
Cardiac failure	2	8,0%	1	11,11%	1	6,3%	1,000	
Hemodynamic support	3	12,0%	1	11,11%	2	12,5%	1,000	
Chronic renal insufficiency	1	4,0%	0	0,00%	1	6,3%	1,000	
Acute kidney injury	4	16,0%	1	11,11%	3	18,8%	1,000	
Malnourishment	8	32,0%	4	44,44%	4	25,0%	0,580	
Decreased bone minerality	12	48,0%	4	44,44%	8	50,0%	0,152	
Pulmonary disease/Impairment	9	36,0%	1	11,11%	8	50,0%	0,442	
Hypothyroidism	5	20,0%	1	11,11%	4	25,0%	0,753	

*Continuous variable without normal distribution (median [p5-95;IQR]); the comparison was done using Mann-Whitney' U test.

**Continuous variable with normal distribution (mean [min-max;SD]; the comparison was done using Student's T test. MELD: Model for End-Stage Liver Disease.

Supplementary Table 3 Surgical variables according to the intraoperative portal vein thrombosis, spontaneous portosystemic shunts ligation and primary graft dysfunction

Intraoperative events	No intraoperative PVT	%	Intraoperative PVT	%	Overall	%	<i>P</i> value
<i>n</i>	9	36,0%	16	64,0%	25	100,0%	
Surgical Time (h)	7,00 [4,80-11,20; 6,80]		7,50 [6,83-9,80; 4,53]		7,20 [6,80-9,50; 4,30]		0,522
Arterialization Technique							0,038
Supraceliac graft	0	0,0%	8	50,0%	8	32,0%	
Infrarenal graft	7	77,8%	5	31,3%	12	48,0%	
ARHA	0	0,0%	2	12,5%	2	8,0%	
Splenic Artery	1	11,1%	0	0,0%	1	4,0%	
AMA	1	11,1%	1	6,3%	2	8,0%	
Thrombectomy***	0	0,0%	9	56,3%	9	36,0%	0,005
CIT (h)	9,24 [4,90-13,70; 3,20]**		9,60 [4,00-13,80; 2,20]**		9,40 [4,00-13,80; 1,50]**		0,777
CIT > 10 h	3	33,3%	6	37,5%	9	36,0%	1,000

WIT (min)	36,6 [22,00-52,00; 10,80]**		45,4 [29,0-78,0; 13,10]**		42,20 [22,00- 78,00;12,80]**		0,801
WIT> 45 min)	2	22,2%	6	37,5 %	8	32,0%	0,661
PRBCs (Units)	12,10 [0,00-41,00; 15,7]**		9,40 [0,00-2,00; 6,9]**		10,00 [6,40-14,20; 12,00]*		0,499
Plasma (Units)	12,00 [7,70-29,20; 8,5]*		11,50 [10,58-2,42; 14,8]*		12,00 [12,2-22,1; 13,00]*		0,598
Cryoprecipitates (Units)	20,00 [9,80-35,90 5,0]*		20,00 [10,14-3,49; 28,3]*		20,00 [13,50-3,00; 17,50]*		0,978
Platelets (Units)	12,00 [1,50-4,60; 31,0]*		12,00 [2,20-4,80; 24,00]*		12,00 [7,60-3,10; 27,00]*		0,803
PVA after LT	3	33,3%	1	6,3%	4	16,0%	0,116
Intraoperative Events	No SPSS Ligation	%	SPSS Ligation	%	Overall	%	p
n	15	60%	10	40%	25	100,0 %	
Surgical Time (h)	8,3 [4,4-15,0; 3,3]**		8,12 [4,2-15,0; 3,5]**		7,2 [6,8-9,5; 4,30]**		0,904
Arterialization Technique							0,284
Supraceliac graft	5	33,3%	3	30,0 %	8	32,0%	
Infrarenal graft	7	46,7%	5	50,0 %	12	48,0%	
ARHA	0	0,0%	2	20,0 %	2	8,0%	
Splenic Artery	1	6,7%	0	0,0%	1	4,0%	

Supraceliac graft	7	43,8%	1	11,1%	8	32,0%	
Infrarenal graft	6	37,5%	6	66,7%	12	48,0%	
ARHA	1	6,3%	1	11,1%	2	8,0%	
Splenic Artery	0	0,0%	1	11,1%	1	4,0%	
AMA	2	12,5%	0	0,0%	2	8,0%	
Thrombectomy***	7	43,8%	2	22,2%	9	36,0%	0.401
CIT (h)	9,90 2,60]**	[4,00-13,80;	10,40 2,30]**	[5,40-13,70;	9,40 1,50]**	[4,00-13,80;	0,171
CIT > 10 h	4	25,0%	5	55,6%	9	36,0%	0,200
WIT (min)	44,00 14,00]**	[25,00-78,00;	39,00 52,00;10,40]**	[22,00-	42,20 78,00;12,80]**	[22,00-	0,362
WIT> 45 min)	5	31,3%	3	33,3%	8	32,0%	1,000
PRBCs (Units)	10,00 11,80]*	[5,50-12,90;	10,00 17,00]*	[2,40-22,50;	10,00 12,00]*	[6,40-14,20;	0,718
Plasma (Units)	12,00 12,50]*	[10,60-27,40;	12,00 18,00]*	[7,40-31,10;	12,00 13,00]*	[12,2-22,1;	0,803
Cryoprecipitates (Units)	20,00 20,00]*	[10,80-26,60;	21,00 23,00]*	[8,40-4,80;	20,00 17,50]*	[13,50-3,00;	0,452

	12,00	[1,00-36,50;	12,00	[3,60-39,60;	12,00	[7,60-3,10;	
Platelets (Units)	22,50]*		31,00]*		27,00]*		0,487
PVA after LT	2	12,5%	2	22,2%	4	16,0%	0,602

*Continuous variables without normal distribution (median [p5-95;IQR]). They were compared using Mann-Whitney's U test.

Continuous variables with normal distribution (mean [min-max;SD]). They were compared using Student's T test. *Whether mechanical thrombectomy or thromboendovenectomy. PVT: Portal Vein Thrombosis, PGD: Primary Graft Dysfunction, ARHA: Accessory Right Hepatic Artery, AMA: Accessory Mesenteric Artery, CIT: Cold Ischemia Time, WIT: Warm Ischemia time, PVA: Portal Vein Arterialization, LT: Liver transplant, SPSS: Spontaneous Portosystemic Shunts, PRBC: Packed Red Blood Cells.

Supplementary Table 3 30-d postoperative outcome according to preoperative portal vein thrombosis and SPSS ligation.

Postoperative Events	No PVT	%	PVT	%	Overall	%	P value
<i>n</i>	9	36,0%	16	64,0%	25	100,0%	
ICU stay (d)	3,00 [0,74-7,20; 4,50]*		3,00 [0,00-14,50; 3,70]*		3,0 [1,00-10,60;4,00]*		0,890
LOS (d)	6,00 [3,60-17,90 11,50]*		11,50 [0,00-46,00; 12,70]*		10,00 [3,80-33,00;13,50]*		0,419
Hemoperitoneum	1	11,1%	1	6,3%	2	8,0%	1,000
Bowel resection	0	0,0%	3	18,8%	3	12,0%	0,280
Upper Gastrointestinal Bleeding	4	44,4%	2	12,5%	6	24,0%	0,142
Infections	6	66,7%	8	50,0%	14	56,0%	0,677
Ascites	2	22,2%	4	25,0%	6	24,0%	1,000
Pleural effusion	1	11,1%	4	25,0%	5	20,0%	0,621
Pulmonary complications	2	22,2%	6	37,5%	8	32,0%	0,661

Encephalopathy	4	44,4%	6	37,5%	10	40,0%	1,000
Postoperative atrial fibrillation	1	11,1%	1	6,3%	2	8,0%	1,000
Congestive cardiac Failure	1	11,1%	1	6,3%	2	8,0%	1,000
Acute Kidney Injury	5	55,6%	8	50,0%	13	52,0%	1,000
Hemodialysis requirement	4	44,4%	2	12,5%	6	24,0%	0,142
Reintervention	3	33,3%	4	25,0%	7	28,0%	0,673
PGD	6	66,7%	3	18,8%	9	36,0%	0,031
PNF	4	44,4%	1	6,3%	5	20,0%	0,040
Retransplantation	2	22,2%	1	6,3%	3	12,0%	0,530
30-day mortality	6	66,7%	3	18,8%	9	36,0%	0,031
Postoperative Events	No SPSS Ligation		SPSS Ligation		Overall		p
n	15	60,0%	10	40,0%	25	100,0%	
ICU LOS (d)	3,00 [0,00-15,50; 4,00]*		3,00 [1,10-6,00;5,00]*		3,00 [1,00-10,60;4,00]*		0,765
LOS (d)	10,00 [0,00-47,40;14,00]*		11,50 [5,90-19,20; 13,20]*		10,00 [3,80-33,00;13,50]*		0,892
Hemoperitoneum	1	6,7%	1	10,0%	2	8,0%	1,000
Bowel resection	2	13,3%	1	10,0%	3	12,0%	1,000
Upper Gastrointestinal Bleeding	4	26,7%	2	20,0%	6	24,0%	1,000
Infection	8	53,3%	6	60,0%	14	56,0%	1,000

Ascites	4	26,7%	2	20,0%	6	24,0%	1,000
Pleural effusion	2	13,3%	3	30,0%	5	20,0%	0,358
Pulmonary complications	3	20,0%	5	50,0%	8	32,0%	0,194
Encephalopathy	3	20,0%	7	70,0%	10	40,0%	0,037
Postoperative atrial fibrillation	1	6,7%	1	10,0%	2	8,0%	1,000
Congestive cardiac Failure	1	6,7%	1	10,0%	2	8,0%	1,000
Acute Kidney Injury	4	26,7%	9	90,0%	13	52,0%	0,004
Hemodialysis requirement	3	20,0%	3	30,0%	6	24,0%	0,653
Reintervention	3	20,0%	4	40,0%	7	28,0%	0,378
PGD	3	20,0%	6	60,0%	9	36,0%	0,041
PNF	1	6,7%	4	40,0%	5	20,0%	0,121
Retransplantation	0	0,0%	3	30,0%	3	12,0%	0,052
30-day mortality	6	40,0%	3	30,0%	9	26,0%	0.691

*Continuous variable without normal distribution (median [p5-95;IQR]); the comparison between groups was done using U-Mann-Whitney test. PVT: Portal Vein Thrombosis, ICU: Intensive Care Unit; PVA: Portal Vein Arterialization, LOS: Length of Stay, PGD: Primary Graft Dysfunction, PNF: Primary Non-Functioning, SPSS: Spontaneous Portosystemic Shunt.