

Supplementary Table 1: Characteristics of recipients in D0, D1, D3 and D7 after surgery.

		DR-RIPC	D-RIPC	R-RIPC	S-RIPC	P
		(n=51)	(n=51)	(n=51)	(n=55)	
ALT	Max	564.5 (323.8, 889.5)	426.9 (284.4, 636.9)	495.6 (341.3, 712.0)	426.6 (262.0, 825.0)	0.144
	D0	368.0 (259.6, 621.0)	307.2 (219.6, 497.8)	309.3 (224.0, 483.8)	316.9 (214.1, 452.6)	0.175
	D1	337.2 (243.5, 613.5)	306.1 (182.0, 507.0)	350.4 (230.7, 504.2)	275.0 (180.6, 624.5)	0.124
	D3	281.0 (155.5, 501.9)	231.0 (110.5, 362.2)	269.5 (172.0, 382.4)	205.9 (128.4, 510.0)	0.229
	D7	80.0 (48.1, 134.0)	80.5 (50.0, 140.8)	82.5 (64.6, 131.8)	112.0 (61.0, 152.0)	0.164
	Max	539.2 (414.7, 805.5)	454.2 (334.2, 600.9)	480.1 (344.6, 682.9)	511.4 (325.4, 736.5)	0.296
	D0	481.9 (395.2, 708.5)	440.4 (326.9, 576.5)	413.9 (278.6, 602.3)	396.0 (302.4, 613.6)	0.071
AST	D1	368.0 (255.0, 627.1)	283.0 (203.2, 445.8)	304.1 (203.5, 424.5)	292.0 (197.8, 459.3)	0.232
	D3	131.0 (75.8, 187.2)	99.0 (64.8, 171.8)	103.0 (84.1, 168.8)	106.0 (73.0, 156.0)	0.715
	D7	52.0 (38.8, 80.0)	50.0 (34.5, 79.3)	49.5 (38.3, 75.3)	59.0 (43.5, 134.2)	0.332
TBIL	Max	126.0±60.3	148.3±96.5	147.4±119.1	139.7±84.5	0.843
	D0	113.3±49.6	133.0±82.8	120.1±62.2	129.1±71.3	0.654
	D1	94.2±43.5	102.9±69.7	97.1±60.5	103.1±58.9	0.862

	D3	67.8±39.0	74.0±57.8	73.7±49.0	70.9±45.3	0.984
	D7	28.2±16.3	38.4±41.2	47.4±72.2	40.3±56.3	0.621
	Max	43.4±4.3	43.8±4.1	43.7±4.7	42.7±3.8	0.512
	D0	26.7±5.8	27.2±6.1	28.6±6.2	27.4±5.6	0.825
ALB	D1	37.7±4.8	37.1±6.0	36.1±5.8	36.1±3.7	0.357
	D3	38.7±5.4	37.8±4.9	38.8±6.5	36.8±5.6	0.221
	D7	38.4±6.2	39.4±5.3	39.3±6.3	37.9±5.8	0.467
	Max	22.0 (19.0, 27.5)	19.5 (17.3, 23.0)	23.0 (18.0, 24.0)	22.0 (19.0, 26.5)	0.099
	D0	20.0 (17.0, 23.0)	17.0 (14.3, 20.8)*	19.0 (16.0, 23.0)	20.0 (16.0, 23.0)	0.029
Cr	D1	15.0 (12.2, 17.0)	14.0 (11.0, 16.0)	15.0 (11.3, 17.0)	15.0 (11.5, 18.0)	0.496
	D3	15.0 (12.5, 16.0)	12.5 (11.0, 15.8)	14.0 (12.0, 16.8)	15.0 (12.0, 17.5)	0.519
	D7	14.0 (12.5, 18.0)	15.0 (12.0, 17.0)	16.0 (13.0, 17.9)	16.0 (13.0, 18.0)	0.831
	Max	15.9±7.7	18.7±8.3	16.2±9.0	17.5±8.8	0.236
	D0	5.8±2.7	6.9±3.8	6.3±3.1	6.0±2.9	0.793
WBC	D1	9.6±4.4	10.5±5.8	9.6±4.1	10.0±4.7	0.968
	D3	8.5±6.1	8.5±3.9	7.8±4.7	8.0±3.7	0.636
	D7	14.0±7.1	17.1±8.9	13.9±7.2	16.6±9.1	0.170
	Max	69.9±8.2	70.5±9.8	71.3±8.6	72.0±8.3	0.602
	D0	63.7±9.6	64.2±11.3	63.6±11.5	65.3±10.9	0.934
N	D1	62.8±9.4	63.7±11.0	64.1±7.8	62.6±13.3	0.589
	D3	63.5±11.7	63.7±12.9	65.1±11.1	64.8±9.4	0.687
	D7	44.1±14.0	44.2±16.2	41.9±13.5	43.0±13.4	0.898
	Max	108.2±14.0	106.0±12.9	107.5±16.5	107.9±15.6	0.897
	D0	83.8±19.3	91.5±21.8	106.2±112.1	89.8±14.4	0.086
Hgb	D1	92.0±15.5	88.7±16.6	87.1±15.3	88.7±15.3	0.447
	D3	94.5±15.8	93.8±18.7	94.7±13.5	95.7±13.5	0.851
	D7	93.5±11.8	96.8±16.7	95.3±15.1	97.0±15.1	0.691
PLT	Max	273.0	302.0	295.0	297.0	0.287

	(208.0, 357.0)	(248.8, 402.2)	(234.8, 372.8)	(222.0, 348.5)	
D0	125.0 (92.5, 157.0)	121.0 (99.3, 179.0)	127.5 (100.5, 191.5)	125.0 (94.0, 170.5)	0.562
D1	125.0 (86.0, 185.5)	137.5 (99.3, 182.0)	130.5 (99.3, 185.0)	131.0 (97.0, 181.5)	0.682
D3	141.0 (105.5, 216.0)	168.5 (117.5, 232.8)	144.0 (108.5, 214.5)	156.0 (108.5, 219.5)	0.642
D7	140.0 (89.5, 196.5)	161.5 (125.8, 205.5)	149.0 (106.5, 213.8)	149.0 (104.5, 214.0)	0.630

Variables are shown as “mean ± SD” or “median (25% quartile, 75% quartile)”. ALT, alanine transaminase; AST, aspartate aminotransferase; TB, total bilirubin; ALB, albumin; Cr, creatinine; WBC, white blood cell; N, neutrophil; Hgb, hemoglobin; PLT, platelet.

* $P < 0.05$, D-RIPC group vs S-RIPC group.

Supplementary Table 2: Characteristics of donors after surgery.

		DR-RIPC	D-RIPC	R-RIPC	S-RIPC	<i>P</i>
		(n=51)	(n=51)	(n=51)	(n=55)	
ALT	Max	302.0 (220.4, 410.2)	233.0 (129.0, 378.5)	312.0 (172.9, 434.0)	296.7 (173.0, 428.5)	0.217
	D1	260.0 (138.5, 382.5)	183.0 (115.3, 341.0)	257.0 (154.7, 418.5)	221.0 (119.0, 390.9)	0.485
	D2	263.5 (173.5, 368.5)	199.0 (112.0, 331.0)	257.0 (154.9, 368.5)	257.0 (149.0, 384.2)	0.246
	D3	165.0 (103.5, 222.0)	117.0 (82.5, 180.5)	194.0 (101.5, 259.5)	144.0 (86.2, 245.5)	0.098
AST	Max	239.0 (164.5, 404.5)	210.0 (125.5, 306.5)	220.0 (160.0, 364.5)	229.0 (128.5, 375.5)	0.295
	D1	237.6 (151.2, 404.5)	176.0 (125.5, 288.0)	218.0 (153.8, 364.5)	214.4 (118.5, 370.8)	0.283
	D2	166.6 (109.0, 232.5)	145.0 (79.85, 217.2)	119.5 (103.0, 233.3)	152.0 (94.7, 219.0)	0.503
	D3	59.0 (40.0, 106.5)	57.0 (31.5, 90.3)	62.0 (42.5, 88.0)	64.0 (41.9, 81.0)	0.720
TBIL	Max	24.3±14.8	21.3±8.5	23.2±8.9	22.2±8.1	0.497
	D1	20.0±6.7	19.9±8.4	21.5±8.8	21.1±8.5	0.683
	D2	17.9±5.7	18.3±8.2	19.2±6.9	18.0±6.2	0.731
	D3	18.5±16.1	14.8±6.0	16.4±7.3	15.5±5.7	0.247
ALB	Max	40.0±3.0	40.0±2.2	40.2±2.5	39.8±2.6	0.641
	D1	37.9±3.8	38.3±3.0	38.1±2.6	37.6±2.8	0.655
	D2	38.3±3.0	38.4±2.9	38.1±3.2	37.9±3.4	0.804
	D3	38.7±2.8	39.4±2.3	39.5±2.6	39.1±2.7	0.422

Variables are shown as “mean ± SD” or “median (25% quartile, 75% quartile)”. ALT, alanine transaminase; AST, aspartate aminotransferase; TB, total bilirubin; ALB,

albumin.

Supplementary Table 3. Postoperative complications classified by the Modified Clavien Grading System in recipients and donors.

Grade	Recipients				Donors			
	DR-RIPC (n=51)	D-RIPC (n=51)	R-RIPC (n=51)	S-RIPC (n=55)	DR-RIPC (n=51)	D-RIPC (n=51)	R-RIPC (n=51)	S-RIPC (n=55)
I	44	46	42	47	10	9	8	11
II	2	3	3	3	2	1	1	2
IIIa	0	1	0	0	0	0	0	0
IIIb	1	0	2	1	0	0	0	0
IVa	1	0	0	0	0	0	0	0
IVb	3	1	4	4	0	0	0	0