

Supplement

Standard immunosuppressive regime:

- All patients one dose prednisolone during transplantation (300mg/square meter body surface)
- All patients Basiliximab on day 0 and 4 after pLT
- All patients long-term treatment with tacrolimus only (modigraf® from day 1)
 - o except:
 - Patients with hepatoblastoma or below 6 kg bodyweight received Cyclosporine and Prednisolone as long term treatment
 - Patient with combined lung-liver transplant: Tacrolimus, Prednisolone and Mycophenolate Mofetil.

Calculation of diuresis score:

diuresis score = hourly diuresis [ml/kg/h] / 1+ (furosemide[mg/kg/d] x 0.4 + etacrynic acid[mg/kg/d] x 0.1 + hydrochlorothiazide[mg/kg/d] x 0.04 + spironolactone[mg/kg/d] x 0.01 + mannitol[g/kg/d] x 0.13 + theophylline[mg/kg/d] x 0.01 + acetazolamide [mg/kg/d] x 0.005).

Supplement Table S1

Supplement Table 1: Graft and Transplant characteristics				
	No IAH	IAH	ACS	Total
Patients (n=)	4	6	17	27
Type of LT: Living donor (LD) versus deceased donor	75% LD	17% LD	18% LD	26%
Size of transplant: whole organ versus sized-reduced whole organ versus split	1 : 0 : 3(75%)	4 : 0 : 2(33%)	4 : 2 : 11(65%)	9 : 2 : 16(59%)
Weight of explanted liver (g) *	549.15 [+199.79]	1064.90 [+565.30]	743.61 [+765.70]	787.84 [+670.28]
Weight of transplanted liver (g) *	457.35 [+405.66]	758.95 [+504.08]	576 [+468.03]	593.41 [+460.74]
Graft to-Recipient Weight Ratio *	0.03 [+0.005]	0.02 [+0.007]	0.03 [+0.012]	0.03 [+0,01]
Large for size transplantation	1 (25%)	0	5 (29%)	6 (22%)
Duration of cold ischemia (min)*	292.75 [+112.11]	527.67 [+194.36]	554.06 [+185.12]	509.48 [+195.97]
Type of abdominal wall closure: primary versus sequential/staged	1:3(75%)	4:2(33%)	2:15(88%)	7:20(74%)
Aortic anastomosis of Arteria hepatica: yes versus no	0:4(100%)	2:4(66%)	5:12(71%)	7:20(0.74)
*Mean [+ standard deviation]				

Supplement Table S2

			NoIAH*				IAH *				ACS*				
Parameter		Unit	Median [Min- Max]	Mean [Standard deviation]	Lower CI 95%	Upper CI 95%	Median [Min-Max]	Mean [Standard deviation]	Lower CI 95%	Upper CI 95%	Median [Min-Max]	Mean [Standard deviation]	Lower CI 95%	Upper CI 95%	p-value Kruskal Wallis
Heart frequency		per minute	100 [85- 111]	99 [±11]	82	116	99 [90- 128]	103[±15]	88	117	110[83- 129]	110[±15]	103	119	0.25
Mean arterial pressure (MAP)		mmHg	66[62-98]	73[±17]	46	100	92[63-96]	81[±15]	68	99	73[60-89]	76[±11]	70	80	0.34
Near infrared spectroscopy (NIRS)		%	59 [56-64]	59 [±6]	6.6	112.1	75[71-89]	79[±9]	64.6	90.3	72[52-89]	72[±11]	65.8	78.3	0.14
Dynamic Tissue Perfusion Measurement	Liver	cm/sec	0.42[0.12- 0.83]	0.445[±0.363]	-0.13	1.02	0.30[0.09- 0.45]	0.310[±0.131]	0.14	0.48	0.21[0.13- 2.05]	0.434[±0.509]	0.13	0.76	0.96
	Kidney	cm/sec	0.17[0.9- 0.42]	0.211[±0.145]	-0.02	0.44	0.15[0.07- 0.32]	0.197[±0.126]	-0.01	0.35	0.27[0.1- 2.05]	0.394[±0.492]	0.11	0.72	0.19
	Spleen	cm/sec	0.32[0.19- 0.57]	0.353[±0.181]	0.07	0.64	0.42[0.26- 0.55]	0.376[±0.156]	0.18	0.65	0.46[0.04- 0.99]	0.424[±0.304]	0.23	0.61	0.96
	Intestines	cm/sec	0.07[0.04- 0.36]	0.135[±0.151]	-0.11	0.38	0.05[0.03- 0.27]	0.115[±0.138]	-0.08	0.29	0.10[0.01- 0.29]	0.115[±0.076]	0.07	0.17	0.73
Respiration frequency		per minute	28[26-31]	28[±2]	25	32	20[16-34]	25[±8]	16	32	24[14-46]	27[±8]	23	31	0.39
D-GFR Score			3.2[2.8- 3.5]	3.1[±0.3]	2.7	3.7	2.4[1.0- 3.0]	2.1[±0.8]	1.5	2.9	2.8[0.6- 5.2]	2.9[±1.2]	2.3	3.5	0.10
Albumin blood level		g/dl	24[21-25]	23[±2]	18	28.1	24[23-25]	24[±1]	22.2	26	24[18-32]	25[±4]	23	27.3	0.84
Albumin substitution		g	3[2-10]	4.5[±3.7]	-1.4	10.4	0[0-12]	2.8[±5.2]	-2.7	7.4	0[0-18]	1.8[±4.4]	-0.4	4.2	0.07