

## **Supplementary Materials**

### **Unbound plasma, total plasma and whole-blood tacrolimus pharmacokinetics early after thoracic organ transplantation**

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**Table S1.** (Parameters displayed per day)

<b>Parameters</b>	<b>N=30(%)</b>	<b>Median (Q1;Q3)</b>
<b>Hematocrit</b>		
Day 1		0.31 (0.28;0.35)
Day 2		0.28 (0.25;0.30)
Day 3		0.27 (0.25;0.28)
Day 4		0.27 (0.25;0.29)
Day 5		0.27 (0.24;0.30)
Day 6		0.28 (0.27;0.29)
<b>Albumin (g/L)</b>		
Day 1		26.2 (22.5;29.3)
Day 2		25.7 (22.2;28.2)
Day 3		25.3 (23.0;26.6)
Day 4		24.9 (22.6;27.1)
Day 5		24.3 (22.5;26.9)
Day 6		24.0 (22.8;25.4)
<b>High Density Lipoprotein (mmol/L)</b>		
Day 1		0.84 (0.70;1.06)
Day 2		0.89 (0.73;1.09)
Day 3		0.89 (0.76;1.04)
Day 4		0.93 (0.75;1.05)
Day 5		0.94 (0.80;1.01)
Day 6		0.96 (0.83;1.11)
<b>α1-acid glycoprotein (g/L)</b>		
Day 1		0.89 (0.76;1.18)
Day 2		1.37 (1.07;1.55)
Day 3		1.66 (1.37;2.04)
Day 4		1.79 (1.64;2.27)
Day 5		1.82 (1.67;2.24)
Day 6		1.90 (1.30;2.11)
<b>pH</b>		
Day 1		7.39 (7.33;7.43)
Day 2		7.40 (7.38;7.43)
Day 3		7.43 (7.39;7.46)
Day 4		7.44 (7.40;7.46)
Day 5		7.46 (7.45;7.48)
Day 6		7.47 (7.44;7.50)
<b>Administration of packed red blood cells (ml/day) among patients receiving transfusion</b>		
Day 1		550 (275;825)
Day 2		275 (275;688)
Day 3		275 (275;275)
Day 4		275 (275;275)
Day 5		413 (275;413)
Day 6		275 (275;1100)
<b>SOFA scores per day</b>		
Day 1		9 (7;17)
Day 2		8 (5;10)
Day 3		5 (3;8)
Day 4		5 (3;15)
Day 5		4 (3;11)
Day 6		4 (2;9)
<b>Frequency of Ileus per day</b>		
Day 1	27 (90%)	
Day 2	24 (80%)	
Day 3	14 (47%)	
Day 4	5 (17%)	
Day 5	2 (7%)	
Day 6	2 (7%)	
<b>Frequency of diarrhea per day</b>		
Day 1	0 (0%)	
Day 2	2 (7%)	
Day 3	8 (27%)	
Day 4	9 (30%)	
Day 5	11 (37%)	
Day 6	10 (33%)	

Frequency of liver dysfunction per day		
Day 1	7 (23%)	
Day 2	6 (20%)	
Day 3	3 (10%)	
Day 4	3 (13%)	
Day 5	7 (23%)	
Day 6	6 (20%)	
Frequency of ECMO use per day		
Day 1	8 (27%)	
Day 2	7 (23%)	
Day 3	5 (17%)	
Day 4	4 (13%)	
Day 5	3 (10%)	
Day 6	3 (10%)	
Number of drugs increasing tacrolimus concentration (min-max)		
Day 1		2 (1-4)
Day 2		1 (0-2)
Day 3		1 (0-4)
Day 4		1 (0-5)
Day 5		0 (0-6)
Day 6		1 (0-4)
Number of patients with drugs increasing tacrolimus concentration		
Day 1	30 (100%)	
Day 2	23 (77%)	
Day 3	23 (77%)	
Day 4	17 (57%)	
Day 5	14 (47%)	
Day 6	16 (53%)	
Number of drugs decreasing tacrolimus concentration (min-max)		
Day 1		0 (0-0)
Day 2		1 (1-2)
Day 3		1 (0-1)
Day 4		1 (0-1)
Day 5		1 (0-1)
Day 6		1 (0-1)
Number of patients with drugs decreasing tacrolimus concentration		
Day 1	0 (0%)	
Day 2	30 (100%)	
Day 3	26 (87%)	
Day 4	21 (70%)	
Day 5	18 (60%)	
Day 6	18 (60%)	
Renal function		
Baseline Creatinine clearance (ml/min/1.73m <sup>2</sup> )		85 (73;116)
Pharmacogenetic analyses		
Slow metabolizers of CYP 3A5	21 (70%)	
Slow metabolizers of CYP3A4		
Homozygosity CYP3A4*22	0 (0%)	
Heterozygosity and Homozygosity of POR*28	18 (60%)	
PPAR $\alpha$	16 (53%)	
Decreased ABCB1 activity		
Decreased PXR activity	18 (60%)	
G1199A homozygosity	0 (0%)	
C1236T homozygosity	6 (20%)	
G2677T homozygosity	8 (27%)	
C3435T homozygosity	8 (27%)	
OATP1B1 homozygosity	0 (0%)	