

Supplementary Table 5. Univariable and multivariable Fine-Gray's competing risk model analysis for CKD development in the normal GFR and AKI groups at LT time including inpatient variability of tacrolimus dose

Variables	Normal GFR group at LT time				AKI group at LT time					
	Univariate		Multivariable 1		Univariate		Multivariable 1		Multivariable 2	
	sHR	P-value	Adjusted HR (95% CI)	P-value	sHR	P-value	Adjusted HR (95% CI)	P-value	Adjusted HR (95% CI)	P-value
Age (≥50)	1.11	0.557			1.43	0.048	1.28 (0.90–1.81)	0.173	1.36 (0.95–1.96)	0.095
Sex (Female)	1.24	0.218			0.73	0.074	0.72 (0.52–0.99)	0.043	0.75 (0.54–1.04)	0.081
DDLT (vs. LDLT)	1.69	0.021	1.50 (0.95–2.35)	0.081	1.09	0.596	1.52 (0.96–2.39)	0.072		
DM	2.08	<0.001	2.02 (1.38–2.96)	<0.001	1.69	0.001	2.09 (1.41–3.10)	<0.001	1.23 (0.87–1.74)	0.240
HTN	1.48	0.183			1.13	0.638			1.24 (0.88–1.75)	0.215
LT cause (others vs. HBV)	1.47	0.026	1.29 (0.91–1.83)	0.146	0.84	0.280	1.23 (0.87–1.75)	0.243		
HCC before LT	0.89	0.497			1.36	0.072	0.95 (0.68–1.34)	0.773	0.98 (0.69–1.39)	0.918
CTP score (≥10)	1.08	0.684			0.69	0.030	1.03 (0.74–1.43)	0.859	1.01 (0.71–1.44)	0.937
MELD (>20)	0.89	0.605			0.81	0.199				
WBC (≥4,000/μL)	0.84	0.321			0.71	0.040	0.93 (0.68–1.29)	0.669	0.90 (0.64–1.24)	0.510
Platelet (≥75×10 ³ /μL)	0.69	0.042	0.83 (0.58–1.19)	0.310	0.65	0.033	0.85 (0.58–1.25)	0.411	0.76 (0.52–1.12)	0.162
Albumin (≥3.0 g/dL)	0.50	<0.001	0.60 (0.42–0.86)	0.006	0.83	0.261	0.59 (0.41–0.84)	0.004		
AST (≥160 U/L)	1.02	0.949			0.45	0.002	0.95 (0.50–1.78)	0.862	0.96 (0.52–1.78)	0.894
ALT (≥160 U/L)	0.75	0.440			0.34	0.001	0.48 (0.21–1.12)	0.089	0.47 (0.21–1.08)	0.075
Total bilirubin (≥8 mg/dL)	0.93	0.716			0.84	0.267				
INR (>2.3)	0.91	0.708			0.66	0.039	0.82 (0.55–1.22)	0.331	0.81 (0.55–1.20)	0.300
TDF (vs. no or other NAs)	1.16	0.487			0.76	0.277				
Total CV of TAC dose (≥32.7, ≥34.9*)	2.02	<0.001	1.95 (1.37–2.76)	<0.001	Not included		Not included		1.81 (1.27–2.58)	0.001
First 3-year CV of TAC dose (≥29.4, ≥30.2*)	1.75	0.001	Not included		1.75	<0.001	1.62 (1.15–2.28)	0.005	Not included	
									1.67 (1.18–2.36)	0.004

CKD, chronic kidney disease; AKI, acute kidney injury; GFR, glomerular filtration rate; LT, liver transplantation; sHR, sub-distribution hazard ratio; CI, confidence interval; DDLT, deceased donor liver transplantation; LDLT, living donor liver transplantation; DM, diabetes mellitus; HTN, hypertension; HCC, hepatocellular carcinoma; CTP, Child-Turcotte-Pugh; MELD, model for end-stage disease; WBC, white blood cells; AST, aspartate transaminase; ALT, alanine transaminase; INR, international normalized ratio; TDF, tenofovir disoproxil fumarate; NAs, nucleos(t)ide analogues; CV, coefficient of variant; TAC, tacrolimus.
*CV cut-off value for AKI.