

SUPPLEMENTARY DATA

Supplementary Table 1. Histology of surveillance biopsies at 1 year after Transplantation

| | | Conventional KTx (n=981) |
|-----|---------|-----------------------------|
| g | None | 92.9% (n = 911) |
| | Mild | 5.3% (n = 52) |
| | Mod-Sev | 1.8% (n = 18) |
| i | None | 85.3% (n = 836) |
| | Mild | 8.8% (n = 86) |
| | Mod-Sev | 4.8% (n = 58) |
| t | None | 84.9% (n = 832) |
| | Mild | 9.2% (n = 90) |
| | Mod-Sev | 5.9% (n = 58) |
| v | None | 99.5% (n = 970) |
| | Mild | 0.5% (n = 5) |
| | Mod-Sev | 0% (n = 0) |
| ah | None | 76.4% (n = 720) |
| | Mild | 19.3% (n = 182) |
| | Mod-Sev | 4.2% (n = 40) |
| cg | None | 96.4% (n = 948) |
| | Mild | 1.7% (n = 14) |
| | Mod-Sev | 1.8% (n = 18) |
| ci | None | 49.8% (n = 490) |
| | Mild | 36.9% (n = 363) |
| | Mod-Sev | 13.2% (n = 130) |
| ct | None | 36.1% (n = 354) |
| | Mild | 51.6% (n = 506) |
| | Mod-Sev | 12.3% (n = 121) |
| cv | None | 58.6% (n = 574) |
| | Mild | 32.4% (n = 318) |
| | Mod-Sev | 9.0% (n = 88) |
| C4d | None | 95.0% (n = 132) |
| | Mild | 2.2% (n = 3) |
| | Mod-Sev | 2.8% (n = 4) |
| mm | None | 90.5% (n = 380) |
| | Mild | 8.5% (n = 36) |
| | Mod-Sev | 1.0% (n = 4) |
| ptc | None | 92.2% (n = 141) |
| | Mild | 5.9% (n = 9) |
| | Mod-Sev | 1.9% (n = 3) |

Mild is defined as a Banff score of 1 and Moderate to Severe (Mod-Sev) is a Banff score of 2 or 3. Where n<981, full data was not available.

Supplementary Table 2. Univariate Cox Regression analysis for Death

Censored Graft Failure Univariate Analysis

| Variable | N | All variables | |
|-----------------|-----|-------------------|------------------|
| | | HR (95% CI) | P-value |
| g [#] | 981 | 2.37 (1.76, 3.19) | <0.001 |
| i [#] | 981 | 1.31 (1.03, 1.67) | 0.03 |
| t [#] | 981 | 1.19 (0.92, 1.54) | 0.18 |
| ah [#] | 981 | 1.14 (0.85, 1.52) | 0.39 |
| cg [#] | 981 | 1.55 (1.15, 2.09) | 0.004 |
| ci [#] | 981 | 1.60 (1.29, 1.97) | <0.001 |
| ct [#] | 981 | 1.46 (1.14, 1.85) | 0.002 |
| cv [#] | 981 | 1.00 (0.76, 1.31) | 0.98 |
| mm [#] | 981 | 1.59 (1.23, 2.05) | <0.001 |
| C2 NDSA y/n | 622 | 2.10 (1.09, 4.03) | 0.03 |
| C2 NDSA n: 0 | 622 | 1 | 0.08 |
| ≤3 | | 2.06 (0.93, 4.56) | |
| 4+ | | 2.16 (0.87, 5.32) | |
| C2 NDSA peak: 0 | 622 | 1 | 0.08 |
| <1000 | | 2.24 (1.02, 4.90) | |
| 1000+ | | 1.92 (0.77, 4.80) | |
| C2 NDSA cum: 0 | 622 | 1 | 0.08 |
| ≤2000 | | 2.14 (0.93, 4.92) | |
| >2000 | | 2.05 (0.87, 4.84) | |
| C2 DSA y/n | 622 | 2.70 (1.34, 5.45) | 0.006 |
| C2 DSA n: 0 | 622 | 1 | <0.001 |
| 1 | | 1.58 (0.59, 4.19) | |
| 2+ | | 5.88 (2.40, 14.4) | |
| C2 DSA peak: 0 | 622 | 1 | 0.02 |
| ≤500 | | 2.52 (0.76, 8.35) | |
| >500 | | 2.78 (1.24, 6.25) | |
| C2 DSA cum: 0 | 622 | 1 | <0.001 |
| ≤800 | | 1.20 (0.35, 4.20) | |
| >800 | | 4.45 (2.03, 9.74) | |
| C1 NDSA y/n | 622 | 0.96 (0.52, 1.76) | 0.89 |
| C1 NDSA n: 0 | 622 | 1 | 0.97 |
| ≤3 | | 0.91 (0.39, 2.09) | |
| 4+ | | 1.01 (0.46, 2.20) | |
| C1 NDSA peak: 0 | 622 | 1 | 0.96 |
| <1100 | | 0.89 (0.37, 2.10) | |
| 1100+ | | 1.02 (0.48, 2.16) | |
| C1 NDSA cum: 0 | 622 | 1 | 0.87 |
| <2600 | | 0.83 (0.36, 1.92) | |
| 2600+ | | 1.08 (0.51, 2.30) | |
| C1 DSA y/n | 622 | 0.96 (0.31, 2.97) | 0.94 |

[#]HR per unit of Banff score.