**Table S1.** Cox Proportional Hazards Model for All-Cause Graft Loss

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| **All-cause graft loss** | **Hazard Ratio (95% Confidence Interval)** | **P value** |
| Non-adherence (ref: adherence) | 1.81 (1.20-2.74) | 0.005 |
| eGFRa <15 at presentation (ref: >15) | 2.23 (1.53-3.25) | <0.001 |
| Banff grades II or III (ref: Banff grade I) | 0.81 (0.56-1.18) | 0.28 |
| AMRb (ref: no AMR) | 1.60 (1.07-2.37) | 0.02 |
| Interstitial fibrosis (per 1% increase) | 1.02 (1.01-1.03) | <0.001 |
| Age at rejection (per 1 year increase) | 0.99 (0.08-1.01) | 0.38 |
| Non-white race (ref: white) | 1.59 (1.12-2.24) | 0.01 |
| Deceased donor transplant (ref: living) | 1.10 (0.74-1.62) | 0.63 |
| Nadir SCrc (per 1 mg/dL increase) | 0.78 (0.62-0.98) | 0.04 |
| Non-ATGd treatment (ref: ATG) | 0.93 (0.61-1.41) | 0.72 |

aestimated glomerular filtration rate (mL/min/1.73m2); bantibody mediated rejection; cserum creatinine; danti-thymocyte globulin