**Table S1. Balance of variables included in Cox proportional hazards models after weighting by the odds of receiving an A2-incompatible (A2i) transplant among ABO-compatible (ABOc) recipients. A2i recipients were unweighted.**

| Characteristic | Weighted Mean, A2i | Weighted Mean, ABOc | Standardized Mean Difference |
|---|---|---|---|
| *Recipient* | | | |
| Age at transplant | 51.01 | 51.09 | -0.006 |
| Female | 0.35 | 0.35 | -0.003 |
| Race | 0.37 | 0.37 | 0.002 |
| BMI | 26.45 | 26.39 | 0.007 |
| Peak caclulated PRA | 6.21 | 6.22 | -0.001 |
| Years on dialysis | 1.29 | 1.28 | 0.005 |
| Year of transplantation | 2011.93 | 2011.99 | -0.01 |
| Transplant center | 364.95 | 362.58 | 0.01 |
| *Donor* | | | |
| Age at referral | 44.13 | 44.18 | -0.004 |
| Female | 0.63 | 0.63 | 0.001 |
| Race | 0.24 | 0.24 | 0.004 |