

**Table S3. Correlates of dnDSA Free Survival**

	HLA-DR/DQ dnDSA n=72	No HLA-DR/DQ dnDSA n=592	
First Transplant	96%	95%	0.8281
Recipient Age (years)	34.3±17.4	45.0±15.6	<0.0001
Donor Age (years)	37.1±15.3	40.8±14.7	0.0637
Living Donor	40%	50%	0.1312
Ethnicity (Caucasian vs. other)	75%	65%	0.0895
Cold Ischemic Time (hours)	8.8±5.9	6.6±5.2	0.0008
Delayed Graft Function	13%	14%	0.7502
Induction Therapy	46%	38%	0.2119
Basiliximab	32%	17%	
Thymoglobulin	14%	21%	
Tacrolimus versus Cyclosporin	64%	90%	<0.0001
Tacrolimus CV* 0-12 months (n=582)	39.6±14.6	36.0±11.7	0.0810
Mycophenolate	100%	100%	ns
Non-Adherence	40%	12%	<0.0001
Molecular Mismatch Risk Groups			<0.0001
Low	3%	28%	
Intermediate	32%	36%	
High	65%	36%	

\*CV, coefficient of variation