

Table S1. Frequency of observed donor-recipient pair cause of ESKD agreement

Donor Diagnosis	Recipient Diagnosis								Total
	Diabetes	HTN	GN	Cystic	Urological	Other	Unknown	Missing	
Diabetes	12	6	21	3	1	2	4	0	49
Hypertension/HTN	14	24	32	3	2	9	10	1	95
Glomerulonephritis/GN	10	17	29	0	2	5	4	0	67
Cystic Kidney Disease	1	0	0	0	0	1	0	0	2
Other Urological Disease	1	0	2	0	0	1	2	0	6
Other Cause	21	18	37	4	1	12	11	0	104
Unknown Cause	0	4	5	0	0	4	2	0	15
Missing Cause	16	13	23	5	0	5	7	0	69
Total	75	82	149	15	6	39	40	1	407

The *kappa* statistic assessing the concordance of donor-recipient causes of ESKD diagnosis was 0.04 (slight), however this was statistically significantly different from zero ($p=0.02$). The expected agreement was 15.84% compared with the observed 19.4%.

Table S2. Kappa statistics for biologically related, spousal, non-spousal unrelated

Donor-recipient relationship pairs	ESKD Diagnosis Concordance			
	Observed	Expected	K	P-value
Biologically related	20.5%	16.3%	0.05	0.01
Spousal relationship	16.0%	12.5%	0.04	0.3
Nonspousal biologically unrelated	11.8%	13.1%	-0.01	0.6

There is no agreement among non-spousal biologically unrelated pairs ($\kappa < 0$), there is slight agreement among those with a spousal relationship (κ 0-0.2) but this agreement is not statistically significant. Similarly, there is slight agreement among biologically related pairs and this slight agreement is statistically significant ($p=0.01$).