

Supplementary Table 1 Causes of chronic kidney disease and mode of dialysis in recipients

Recipient Demographics	
Native Kidney Disease	n=62
Chronic glomerulonephritis	8
IgA nephropathy	4
Membranoproliferative glomerulonephritis	2
Lupus Nephritis	1
Focal segmental glomerulosclerosis	1
Chronic tubulointerstitial disease	1
Diabetic Nephropathy	2
Obstructive Uropathy	2
Polycystic kidney disease	1
Pregnancy related acute kidney injury	1
Congenital abnormality of kidney and urinary tract	2
Unknown	45
Hemodialysis	55 (88.7%)
Peritoneal dialysis	3 (4.8%)
Both	4 (6.5%)

Supplementary Table 2 Univariate Cox regression analysis of factors associated with graft loss

Variable	Univariate HR (95% CI)	P value
Recipient Factors		
Recipient age	1.07 (1.02-1.13)	0.006
Recipient male	2.43 (0.83-7.13)	0.104
Recipient BMI	1.07 (0.95-1.19)	0.255
Dialysis vintage (Months)	1.00 (1.00-1.00)	0.499
Donor Factors		
Donor age	1.04 (1.01-1.07)	0.016
Donor male	0.48 (0.15-1.52)	0.211
Donor and Recipient Sex combination		
Male to Male	Ref	
Male to Female	0.48 (0.14-1.65)	0.247
Female to Male	8.74 (7.08-10.65)	0.144
Female to Female	0.63 (0.08-5.22)	0.671
Donor BMI	1.03 (0.84- 1.27)	0.773
Donor terminal creatinine	1.18 (0.77-1.82)	0.437
ECD	2.38 (0.84- 6.69)	0.101
Donor KDRI Rao	3.21 (1.33-7.74)	0.010
Donor KDPI, 2025	1.03 (1.01-1.06)	0.004
Immunological		
HLA mismatch	1.13 (0.60-2.15)	0.708
PRA 1 >20%	1.07 (0.23-4.92)	0.930
PRA 2 >20%	0.27 (0.03-2.10)	0.211
Peri and Post-transplant Factors		
CIT (Hours)	0.92 (0.68-1.25)	0.600
DGF	3.07 (1.09-8.62)	0.034

DGF, Delayed Graft Function; KDRI - Kidney Donor Risk Index; KDPI, Kidney Donor profile Index; ECD, Expanded Criteria Donor; CIT, Cold Ischemia time; BMI, Body

mass index; HLA, human leukocyte antigen; PRA, panel reactive antibody; Ref, reference category

HLA available in 55 patients

Donor BMI, KDRI Rao, KDPI; n=48

Supplementary Table 3 Univariate cox regression analysis of factors associated with mortality

Variable	Univariate HR (95% CI)	P value
Recipient Factors		
Recipient age	1.06 (1.00-1.12)	0.065
Recipient Sex (male)	2.12 (0.62-7.24)	0.231
Recipient BMI	1.05 (0.92-1.21)	0.440
Dialysis Vintage	1.00 (1.00-1.00)	0.567
Donor Factors		
Donor age	1.04 (1.00-1.08)	0.052
Donor Sex (male)	0.27 (0.08-0.97)	0.044
Sex combination effect		
Male to Male	Ref	
Male to Female	0.64 (0.14-2.84)	0.553
Female to Male	5.15 (1.15-23.10)	0.032
Female to Female	1.22 (0.13-11.30)	0.859
Donor BMI	1.03 (0.80-1.32)	0.847
Donor terminal creatinine	1.33 (0.66-1.93)	0.646
ECD	2.07 (0.61-7.09)	0.246
KDRI Rao	3.30 (1.21- 9.00)	0.020
KDPI, 2025	1.03 (1.01-1.06)	0.012
Immunological factors		
HLA mismatch	1.12 (0.51- 2.46)	0.781
PRA1 >20%	1.69 (0.35-8.24)	0.519
PRA2 > 20%	0.40 (0.05-3.25)	0.393

Peri and Post-transplant Factors		
CIT	0.87 (0.59-1.28)	0.471
DGF	3.20 (0.94-10.95)	0.063

DGF, Delayed Graft Function; KDRI Rao- Kidney Donor Risk Index; KDPI, Kidney Donor profile Index; ECD, Expanded Criteria Donor; CIT, Cold Ischemia time; BMI, Body mass index

HLA, data available for 55 patients

Donor BMI, KDRI Rao, KDPI; available for 48 donors

Supplementary Table 4 Multivariate Cox regression analysis of predictors of Mortality

	Model 1		Model 2		Model 3	
Variable	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
Recipient age	1.06 (0.99-1.13)	0.100	1.05 (0.98-1.13)	0.144	1.06 (1.00-1.14)	0.091
Donor age	1.02 (0.98-1.06)	0.293			1.01 (0.97-1.06)	0.486
Male donor	0.33 (0.08-1.40)	0.132	0.64 (0.10-4.19)	0.645	0.40 (0.86-1.77)	0.221
KDRI			2.72 (0.71-10.46)	0.144		
DGF					2.40 (0.65-8.87)	0.191

Model 1 (n=62) – Recipient and Donor Age and donor sex

Model 2 (n=48) – Model 1 + KDRI (Components of KDRI – Donor age removed to avoid collinearity)

Model 3 (n=62) – Model 1 + DGF (Delayed Graft Function) – This model incorporates baseline clinical covariates along with DGF which represents immediate post operative graft function

Collinearity was checked using VIF and variables with VIF >5.0 (KDPI) were excluded
OR, odds ratio; CI, confidence interval; DGF, delayed graft function; KDRI, kidney donor risk index.