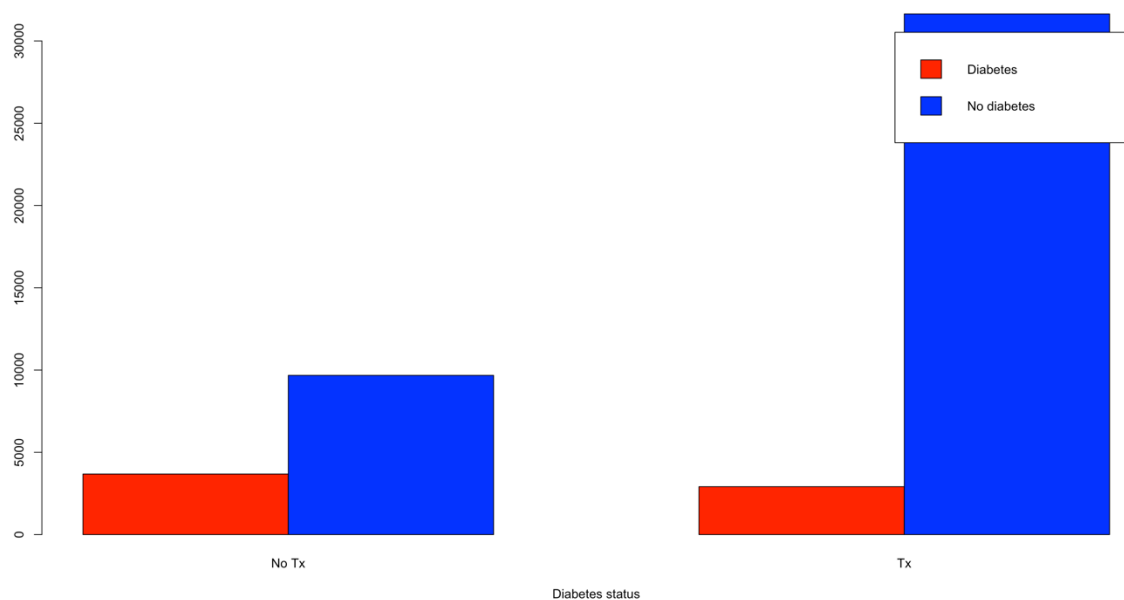
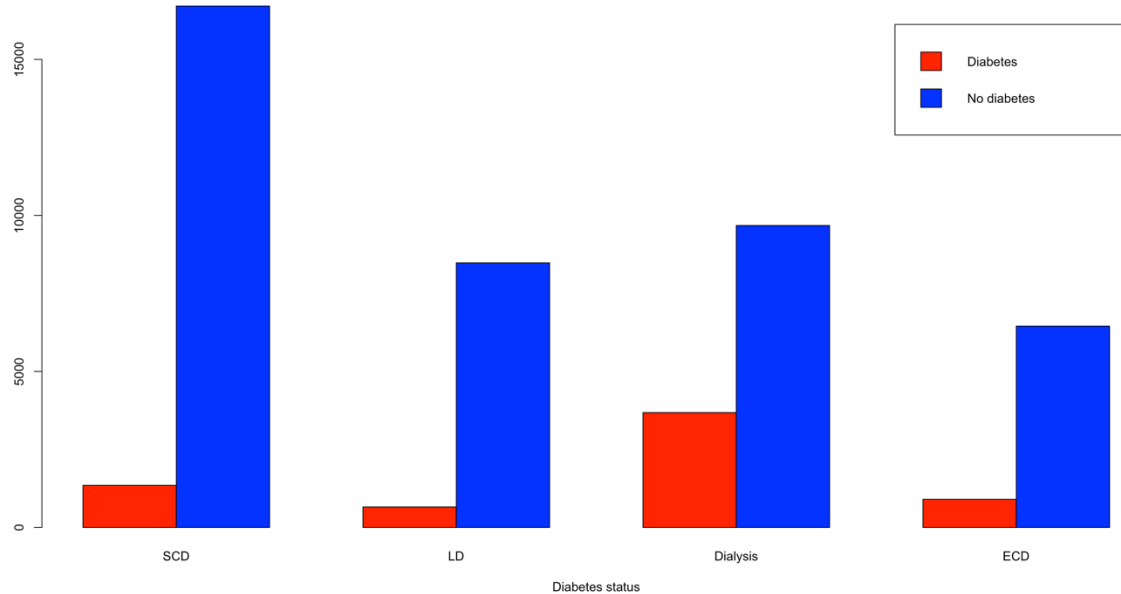


Supplementary Figure 1. Kidney replacement therapy counts for kidney failure people with versus without diabetes (Tx = transplantation, No Tx = dialysis)



Supplementary Figure 2. Kidney replacement therapy counts for kidney failure people with versus without diabetes (SCD = transplantation with standard criteria donor kidney, LD = transplantation with living donor kidney, ECD = transplantation with expanded criteria donor kidney)



Supplementary Table 1. Baseline demographic comparison of kidney failure people wait-listed on the kidney transplant list stratified by diabetes status

Characteristic		Diabetes	No diabetes
N (%)		6,594 (13·8%)	41,323 (86·2%)
Transplant list status	Transplant	2,913 (44·2%)	31,645 (76·6%)
	Dialysis	3,681 (55·8%)	9,678 (23·4%)
Sex	Female	2,253 (34·2%)	15,865 (38·4%)
	Male	4,341 (65·8%)	25,458 (61·6%)
Age at listing (years, SD)		50·5, 12·0	47·5, 14·3
Ethnic Group	White	4,559 (69·1%)	31,680 (76·7%)
	Asian	1,274 (19·3%)	5,014 (12·1%)
	Black	492 (7·5%)	3,079 (7·5%)
	Other	219 (3·3%)	1,164 (2·8%)
	Unknown	50 (0·8%)	386 (0·9%)
Time on transplant list (days, SD)		771, 622	916, 841

SD – standard deviation

Supplementary Table 2. Baseline demographic and immunological comparison of kidney transplant recipients stratified by diabetes status

Characteristic		Diabetes	No diabetes
N (%)		2,913 (8.4%)	31,645 (91.6%)
Sex	Female	901 (30.9%)	12,001 (37.9%)
	Male	2,012 (69.1%)	19,644 (62.1%)
Age at listing (years, SD)		52.5, 11.2	45.8, 14.0
Age at transplant (years, SD)		54.4, 11.3	48.1, 14.1
Ethnic Group	White	1,919 (65.9%)	24,756 (78.2%)
	Asian	642 (22.0%)	3,574 (11.3%)
	Black	223 (7.7%)	2,150 (6.8%)
	Other	111 (3.8%)	856 (2.7%)
	Unknown	18 (0.6%)	309 (1.0%)
Time on transplant list (days, SD)		724, 630	862, 843
HLA group	Level 1	319 (11.0%)	3,813 (12.1%)
	Level 2	739 (25.4%)	9,828 (31.1%)
	Level 3	1,428 (49.0%)	14,016 (44.3%)
	Level 4	427 (14.7%)	3,984 (12.6%)
Cold ischaemic time (hours, SD)		13.1, 7.2	12.9, 7.8
Calculated reaction frequency (mean)		13%	19%

SD – standard deviation

**Supplementary Table 3. Cox regression model of predictors for graft loss after kidney
transplantation**

Variable		Hazard Ratio (95% CI)
Cause of kidney failure	Other causes	REF
	Diabetes	1.36 (1.20-1.53)
Median Age at waitlisting in years (IQR)		1.00 (0.99-1.00)
Sex	Female	REF
	Male	1.08 (0.94-1.24)
Ethnicity	White	REF
	Asian	1.66 (0.99-2.78)
	Black	1.78 (1.49-2.12)
	Other	1.29 (1.01-1.65)
	Unknown	0.36 (0.16-0.81)
Waiting time		0.99 (0.98-1.00)
HLA mismatch	Level 1	REF
	Level 2	1.14 (0.87-1.48)
	Level 3	1.20 (0.94-1.54)
	Level 4	1.27 (0.99-1.63)
Cold ischaemic time		1.01 (1.00-1.02)
Calculated reaction frequency		1.00 (1.00-1.00)

Supplementary Table 4. Cox regression model of predictors for mortality for kidney failure patients with diabetes only (fully adjusted model with transplantation handled as a time varying covariate)

Variable		Hazard Ratio (95% CI)
Treatment	Dialysis	REF
	Transplant	0.38 (0.34-0.42)
Median Age at waitlisting in years (IQR)		1.05 (1.04-1.05)
Sex	Female	REF
	Male	0.94 (0.87-1.02)
Ethnicity	White	REF
	Asian	0.78 (0.71-0.85)
	Black	0.68 (0.59-0.80)
	Other	0.76 (0.61-0.95)
	Unknown	1.65 (0.91-2.99)
Year of listing		0.92 (0.91-0.93)