SUGGESTED ELECTRONIC APPENDIX

Table S1: Hazard ratio (95% confidence intervals) of post-transplant death (all-cause or cardiovascular) or graft failure or delayed graft function patients treated with PD prior to transplantation compared to those treated with HD before transplantation (reference) (n=14,508) with follow-up for up to 6 years (7/2001-6/2007)

	minimally adjusted		**Propensity score adjusted**	
	HR (95% CI)	*P-value*	*HR (95% CI)*	*P-value*
Graft failure censored *all-cause* death	0.67 (0.55-0.82)	<0.001	0.72 (0.59-0.89)	0.002
Graft failure censored *cardiovascular* death	0.38 (0.23-0.62)	<0.001	0.39 (0.24-0.64)	<0.001
Death censored graft failure	0.83 (0.71-0.96)	0.010	0.82 (0.70-0.95)	0.009
Combined all-cause death or graft failure	0.77 (0.68-0.87)	<0.001	0.79 (0.70-0.90)	<0.001
	OR (95% CI)	*P-value*	*OR (95% CI)*	*P-value*
Delayed Graft Function	0.64 (0.56-0.73)	<0.001	0.73 (0.64-0.84)	<0.001

Figure Legends

Figure S1: Distribution of propensity score in total population (before matching) (panel A) and in the matched cohort (panel B).

Figure S2: Flow chart of the patient selection

Figure S3: HR (and 95% CI as error bars) of death-censored graft failure of patients treated with PD prior to transplantation compared to those treated with HD (reference) in different sub-group of patients using multivariate fully adjusted (case-mix, MICS and transplant covariates) Cox regression models

Figure S4: HR (and 95% CI as error bars) of combined outcome (all-cause mortality and graft loss) of patients treated with PD prior to transplantation compared to those treated with HD (reference) in different sub-group of patients using multivariate fully adjusted (case-mix, MICS and transplant covariates) Cox regression models

Figure S5: OR (and 95% CI as error bars) of delayed graft function of patients treated with PD prior to transplantation compared to those treated with HD (reference) in different sub-group of patients using multivariate fully adjusted (case-mix, MICS and transplant covariates) logistic regression models

Figure S1:

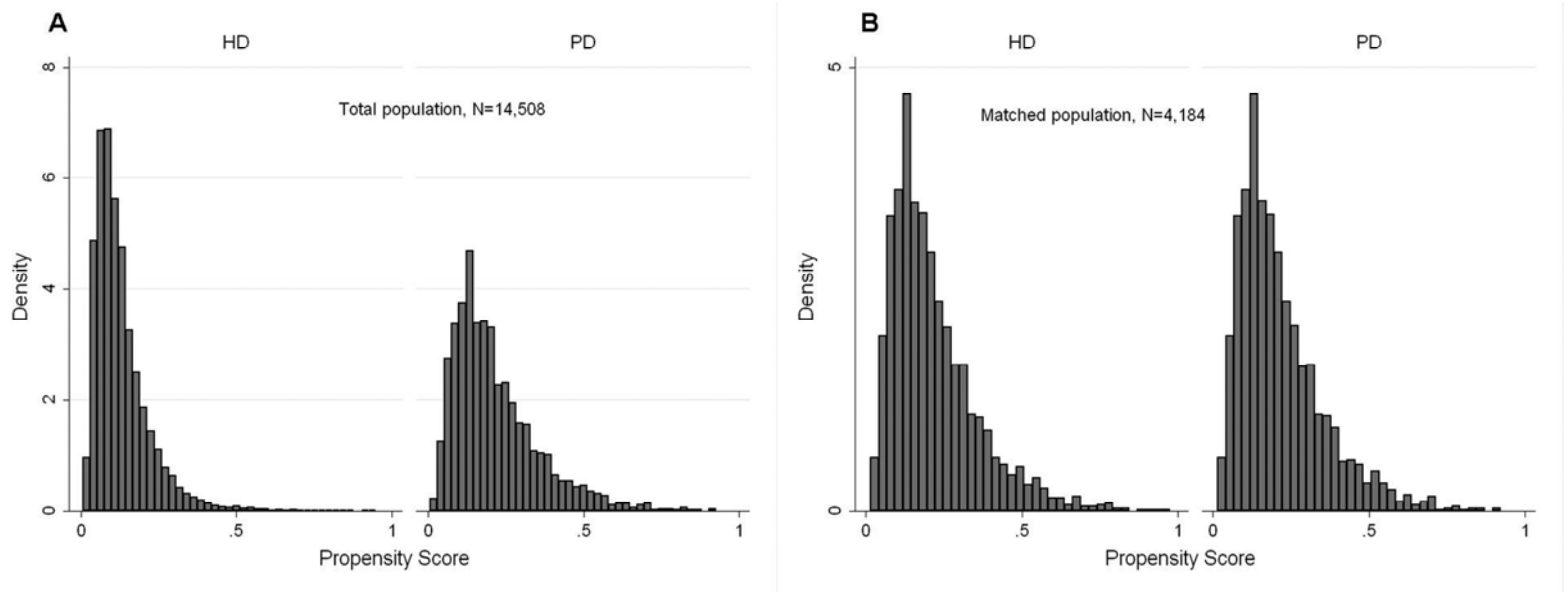

A
HD
PD
Total population, N=14,508
Density
0
2
4
6
8
0
.5
1
Propensity Score
B
HD
PD
Matched population, N=4,184
Density
0
5
0
.5
1
Propensity Score

Figure S2:

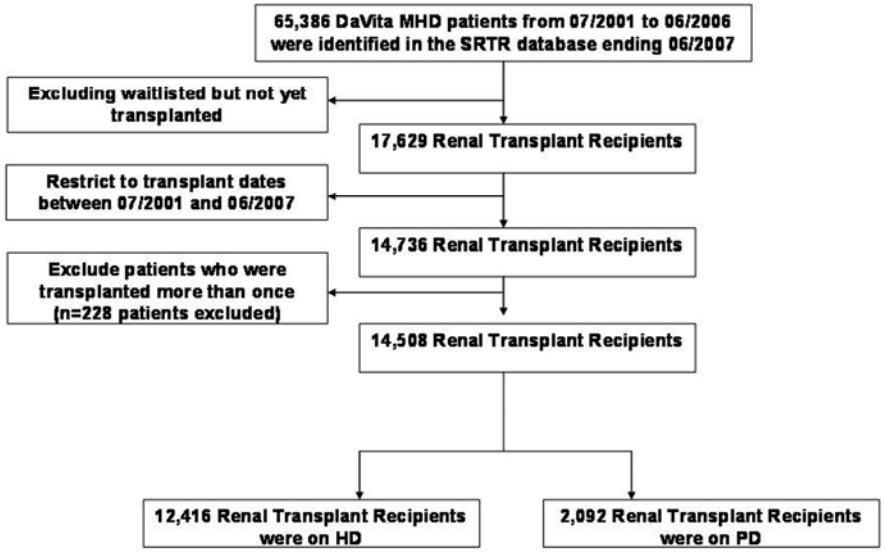

65,386 DaVita MHD patients from 07/2001 to 06/2006 were identified in the SRTR database ending 06/2007
Excluding waitlisted but not yet transplanted
17,629 Renal Transplant Recipients
Restrict to transplant dates between 07/2001 and 06/2007
14,736 Renal Transplant Recipients
Exclude patients who were transplanted more than once (n=228 patients excluded)
14,508 Renal Transplant Recipients
12,416 Renal Transplant Recipients were on HD
2,092 Renal Transplant Recipients were on PD

Figure S3:

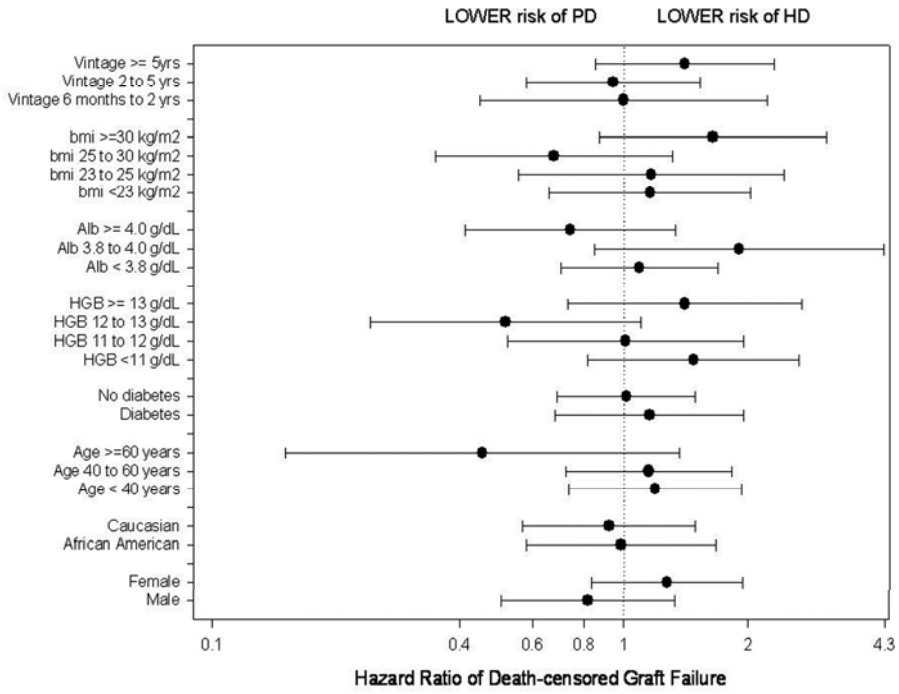

LOWER risk of PD
LOWER risk of HD
Vintage >= 5yrs
Vintage 2 to 5 yrs
Vintage 6 months to 2 yrs
bmi >=30 kg/m2
bmi 25 to 30 kg/m2
bmi 23 to 25 kg/m2
bmi <23 kg/m2
Alb >= 4.0 g/dL
Alb 3.8 to 4.0 g/dL
Alb < 3.8 g/dL
HGB >= 13 g/dL
HGB 12 to 13 g/dL
HGB 11 to 12 g/dL
HGB <11 g/dL
No diabetes
Diabetes
Age >=60 years
Age 40 to 60 years
Age < 40 years
Caucasian
African American
Female
Male
0.1
0.4
0.6
0.8
1
2
4.3
Hazard Ratio of Death-censored Graft Failure

Figure S4

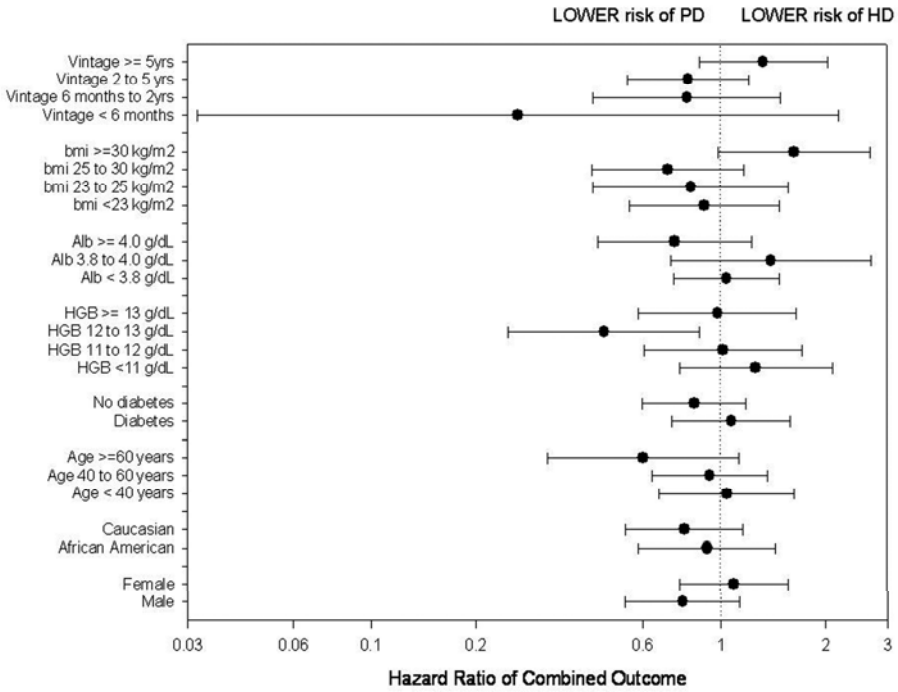
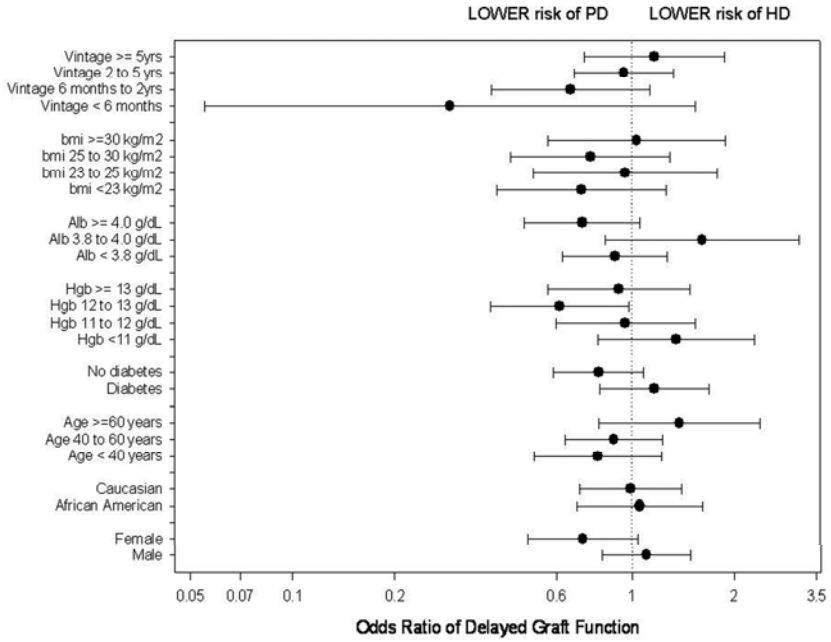

LOWER risk of PD
LOWER risk of HD
Vintage >= 5yrs
Vintage 2 to 5 yrs
Vintage 6 months to 2yrs
Vintage < 6 months
bmi >=30 kg/m2
bmi 25 to 30 kg/m2
bmi 23 to 25 kg/m2
bmi <23 kg/m2
Alb >= 4.0 g/dL
Alb 3.8 to 4.0 g/dL
Alb < 3.8 g/dL
HGB >= 13 g/dL
HGB 12 to 13 g/dL
HGB 11 to 12 g/dL
HGB <11 g/dL
No diabetes
Diabetes
Age >=60 years
Age 40 to 60 years
Age < 40 years
Caucasian
African American
Female
Male
0.03
0.06
0.1
0.2
0.6
1
2
3
Hazard Ratio of Combined Outcome

Figure S5


LOWER risk of PD
LOWER risk of HD
Vintage >= 5yrs
Vintage 2 to 5 yrs
Vintage 6 months to 2yrs
Vintage < 6 months
bmi >=30 kg/m2
bmi 25 to 30 kg/m2
bmi 23 to 25 kg/m2
bmi <23 kg/m2
Alb >= 4.0 g/dL
Alb 3.8 to 4.0 g/dL
Alb < 3.8 g/dL
Hgb >= 13 g/dL
Hgb 12 to 13 g/dL
Hgb 11 to 12 g/dL
Hgb <11 g/dL
No diabetes
Diabetes
Age >=60 years
Age 40 to 60 years
Age < 40 years
Caucasian
African American
Female
Male
0.05
0.07
0.1
0.2
0.6
1
2
3.5
Odds Ratio of Delayed Graft Function