DeKAF Delayed Graft Function Data Set

The accompanying data set contains data on 724 recipients of deceased-donor kidney transplants from the Long Term Deterioration of Kidney Allograft Function (DeKAF) study.

The individuals in this subset meet the inclusion/exclusion criteria for Irish et al. 2010, with the exception of the possibility of pump perfusion. Persons whose transplanted organ received pump perfusion were excluded from the analysis of Irish et al. The pump perfusion status is contained in the variable pump which indicates that 270 persons were recipients of pump-perfused deceased donor kidneys, 470 did not receive pump-perfused deceased donor kidneys, and for 27 participants, the pump perfusion status is unknown/missing. Thus, 470 participants meet the full set of inclusion/exclusion criteria from the Irish study, 270 would meet these criteria if the results were expanded to include pump perfused participants, while all 724 could be included for analysis based on the other Irish criteria if pump perfusion status were ignored.

The variables included in the data set are the following:

Seq	Variable Name	Description
1	pid	Participant ID Number
2	dgf	Delayed Graft Function (1=Yes, 0=No)
3	pump	Pump Perfusion (1=Yes, 0=No)
4	irish_logit	Log(p/(1-p)) as estimated by the Irish Formula
5	irish_prediction	Probability of DGF as estimated by the Irish Formula
6	raceblack	Race (African-American=1, 0=Other)
7	gender	Gender (1=Male, 0=Female)
8	priorktx	Participant has prior transplants (1=Yes,0=No)
9	pcause_diab	Diabetes was Primary Renal Disease (1=Yes, 0=No)
10	peakpra	Panel Reactive Antibody, percent (0-100)
11	transfusions_yn	Pre-transplant transfusions (1=Yes,0=No)
12	nummismatch	Number of HLA mismatches, A, B or DR loci (0-6)
13	bmi_base	Recipient BMI at baseline (kg/m2)
14	daysondial	Days on Dialysis prior to transplant
15	agedonor16	Donor age (years beyond 16, i.e. 17=1)
16	coldtime	Cold ischemia time (hours)
17	wit_unidist	Warm ischemia time (minutes): uniform random number 45-46[1]
18	dcd_yn	Donation after Cardiac Death (1=yes, 0=No)
19	hyp_donoryn	Donor hypertension (1=Yes, 0=No)
20	creatmgdl_donor	Final donor creatinine (mg/dl)
21	wtkg_donor	Donor weight (kg)
22	donorpcause	Primary Cause of Donor Death (2=Cerebrovascular Disease, 1=Anoxia, 0=Other)

[1]Warm ischemia time was not collected in DeKAF. The Irish online calculator suggests imputing 45 minutes for individuals missing this variable. This column contains random numbers on the uniform distribution between 45-46.

IMPORTANT NOTE: Missing data is denoted by the SAS missing data symbol, which is a period. R users should use the option na.string="." when reading in the data using read.csv.

Seq	Var Name	Description	N	Mean	Std Dev	Minimum	Maximum
1	pid		724	362.5	209.1451	1	724
2	dgf		724	0.230663	0.421548	0	1
3	pump		697	0.387374	0.4875	0	1
4	irish_logit		724	-0.83234	0.866434	-3.317	3.26804
5	irish_prediction		724	0.325281	0.169725	0.03499	0.96332
6	raceblack		724	0.30663	0.461413	0	1
7	gender		724	0.609116	0.488286	0	1
8	priorktx		724	0.157459	0.364484	0	1
9	pcause_diab		724	0.273481	0.446054	0	1
10	peakpra		724	26.27486	34.8078	0	100
11	transfusions_yn		724	0.262431	0.44026	0	1
12	nummismatch		724	3.628453	1.826141	0	6
13	bmi_base		724	28.78209	5.590249	16.0018	46.3673
14	daysondial		724	1596.11	1080.28	9	6704
15	agedonor16		724	25.59438	15.05756	0.0657	56.8953
16	coldtime		724	18.26243	7.847803	3	52
17	wit_unidist		724	45.48204	0.500023	45	46
18	dcd_yn		724	0.085635	0.280018	0	1
19	hyp_donoryn		724	0.243094	0.429248	0	1
20	creatmgdl_donor		724	1.048074	0.605453	0.06	7.36425
21	wtkg_donor		724	80.80929	19.98863	7.682	190
22	donorpcause		724	0.890884	0.914294	0	2