

**Supplemental material to:**

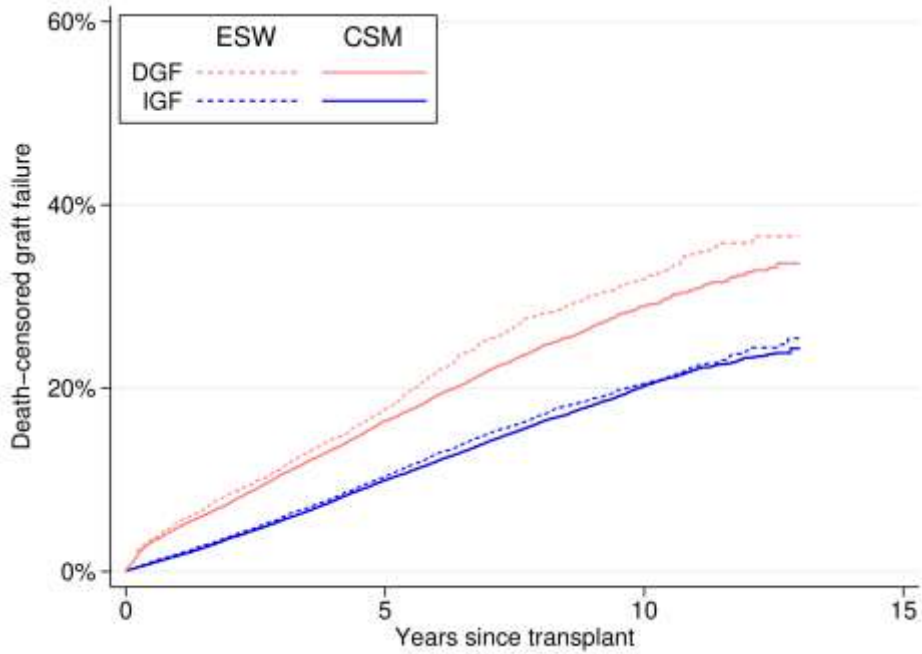
Bae S, et al. Early Steroid Withdrawal in Deceased-Donor Kidney Transplant Recipients with Delayed Graft Function.

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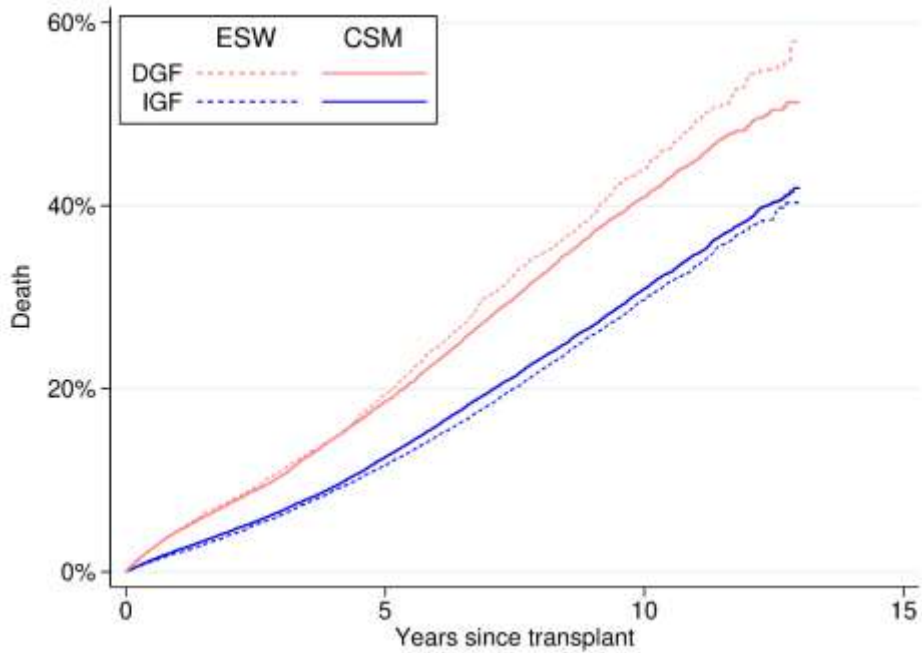
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**Supplemental Figure 1. Kaplan-Meier cumulative incidence plot for death-censored graft failure and death.**

(a) Death-censored graft failure



(b) Death



ESW, early steroid withdrawal; CSM, conventional steroid maintenance; DGF, delayed graft function; and IGF, immediate graft function.

**Supplemental Table 1. Coefficients from the inverse probability of treatment weights model.**

Factor	Log(OR)	95% CI
Constant	-0.892	(-1.300, -0.483)
<b>Recipient factors</b>		
Age (<40)	-0.003	(-0.007, 0.001)
Age (≥40)	0.003	(0.001, 0.004)
Race (Ref: White)		
Black	-0.187	(-0.223, -0.151)
Hispanic	-0.080	(-0.123, -0.037)
Other	-0.027	(-0.078, 0.024)
Female	-0.046	(-0.073, -0.019)
Panel reactive antibody (Ref: 0-9)		
10-79	-0.230	(-0.264, -0.196)
80-100	-0.667	(-0.729, -0.604)
Missing	-0.157	(-0.222, -0.091)
Previous transplant	-0.547	(-0.611, -0.483)
BMI, kg/m <sup>2</sup> (Ref: 18.5-25)		
<18.5	-0.006	(-0.121, 0.109)
25-30	-0.010	(-0.042, 0.022)
≥30	0.010	(-0.023, 0.043)
Missing	0.076	(-0.058, 0.209)
Diabetes (Ref: No)		
Yes	-0.004	(-0.053, 0.046)
Missing	-0.090	(-0.259, 0.078)
Hypertension (Ref: No)		
Yes	-0.003	(-0.049, 0.043)
Missing	-0.138	(-0.195, -0.081)
Cause of ESRD (Ref: Diabetes)		
Glomerulonephritis	-0.150	(-0.209, -0.091)
Hypertension	0.010	(-0.045, 0.066)
Others	-0.054	(-0.111, 0.002)
Preemptive transplant	0.010	(-0.054, 0.074)
Years on dialysis (<2)	0.030	(-0.001, 0.061)
Years on dialysis (≥2)	0.000	(-0.006, 0.005)
Years on dialysis, missing	-0.014	(-0.164, 0.136)
Serum albumin, g/dl (<3)	-0.053	(-0.167, 0.061)
Serum albumin, g/dl (≥3)	0.030	(0.001, 0.060)
Serum albumin, missing	-0.077	(-0.153, -0.002)
Periphereral artery disease (Ref: No)		
Yes	0.062	(0.009, 0.116)
Unknown/missing	0.156	(0.058, 0.254)
Malignancy (Ref: No)		
Yes	-0.033	(-0.089, 0.022)
Unknown/missing	0.078	(-0.037, 0.192)

HCV(+)	0.067	(-0.002, 0.136)
HBV(+)	-0.016	(-0.065, 0.033)
HBV, missing	0.102	(0.056, 0.148)
Education level (Ref: Below high school)		
Above high school	-0.002	(-0.029, 0.025)
Missing	0.082	(0.027, 0.136)
Medicare as primary payer	-0.050	(-0.078, -0.021)
<b>Donor factors</b>		
Age (<25)	0.002	(-0.002, 0.006)
Age (≥25)	-0.001	(-0.002, 0.000)
Female	0.007	(-0.020, 0.034)
Race (Ref: White)		
Black	0.017	(-0.021, 0.055)
Hispanic	-0.049	(-0.089, -0.009)
Other	-0.035	(-0.109, 0.038)
BMI, kg/m <sup>2</sup> (Ref: 18.5-25)		
<18.5	-0.005	(-0.070, 0.061)
25-30	-0.011	(-0.042, 0.020)
≥30	-0.026	(-0.059, 0.008)
Missing	-0.142	(-0.241, -0.043)
HLA-A mismatches (Ref: 0)		
1	0.001	(-0.049, 0.050)
2	-0.011	(-0.060, 0.039)
HLA-B mismatches (Ref: 0)		
1	-0.088	(-0.148, -0.028)
2	-0.087	(-0.145, -0.028)
HLA-DR mismatches (Ref: 0)		
1	-0.028	(-0.067, 0.011)
2	-0.060	(-0.102, -0.019)
Induction agent (Ref: ATG)		
None	0.006	(-0.039, 0.052)
IL2RA	-0.551	(-0.609, -0.493)
Alem	0.973	(0.915, 1.031)
Others	0.217	(0.119, 0.315)
HCV(+)	0.117	(0.024, 0.211)
Donation after cardiac death	-0.088	(-0.130, -0.045)
Diabetes (Ref: No)		
Yes	0.035	(-0.016, 0.086)
Missing	-0.056	(-0.272, 0.161)
Hypertension (Ref: No)		
Yes	0.002	(-0.031, 0.036)
Missing	0.007	(-0.185, 0.199)
Stroke as the cause of donor death	-0.016	(-0.047, 0.016)
Machine perfusion (Ref: No)		
Yes	-0.037	(-0.070, -0.004)
Missing	-0.034	(-0.115, 0.048)

Terminal serum creatinine, mg/dl (<0.8)	0.016	(-0.096, 0.129)
Terminal serum creatinine, mg/dl (≥0.8)	-0.012	(-0.029, 0.006)
Terminal serum creatinine, missing	1.118	(0.434, 1.801)
Cold ischemic time, Hr	-0.002	(-0.004, -0.001)
Cold ischemic time, missing	0.307	(0.155, 0.460)
Delayed graft function	-0.474	(-1.282, 0.335)
<b>Among those with delayed graft function, add the terms below</b>		
Age (<40)	0.010	(0.000, 0.019)
Age (≥40)	-0.002	(-0.005, 0.001)
Race (Ref: White)		
Black	0.005	(-0.064, 0.073)
Hispanic	0.033	(-0.050, 0.116)
Other	0.083	(-0.019, 0.185)
Female	-0.042	(-0.102, 0.018)
Panel reactive antibody (Ref: 0-9)		
10-79	0.071	(0.006, 0.136)
80-100	0.114	(0.013, 0.215)
Missing	0.055	(-0.077, 0.187)
Previous transplant	0.114	(0.005, 0.223)
BMI, kg/m <sup>2</sup> (Ref: 18.5-25)		
<18.5	0.009	(-0.285, 0.303)
25-30	0.030	(-0.041, 0.101)
≥30	0.016	(-0.055, 0.087)
Missing	-0.042	(-0.322, 0.239)
Diabetes (Ref: No)		
Yes	0.013	(-0.087, 0.112)
Missing	0.111	(-0.238, 0.461)
Hypertension (Ref: No)		
Yes	0.025	(-0.072, 0.121)
Missing	0.060	(-0.055, 0.175)
Cause of ESRD (Ref: Diabetes)		
Glomerulonephritis	-0.015	(-0.135, 0.105)
Hypertension	-0.028	(-0.136, 0.080)
Others	-0.029	(-0.142, 0.083)
Preemptive transplant	-0.060	(-0.254, 0.134)
Years on dialysis (<2)	-0.046	(-0.121, 0.029)
Years on dialysis (≥2)	-0.003	(-0.013, 0.007)
Years on dialysis, missing	-0.311	(-0.683, 0.061)
Serum albumin, g/dl (<3)	-0.037	(-0.267, 0.193)
Serum albumin, g/dl (≥3)	0.052	(-0.008, 0.111)
Serum albumin, missing	-0.006	(-0.153, 0.142)
Peripheral artery disease (Ref: No)		
Yes	-0.064	(-0.166, 0.039)
Unknown/missing	-0.230	(-0.449, -0.012)
Malignancy (Ref: No)		
Yes	0.068	(-0.046, 0.182)

Unknown/missing	0.305	(0.058, 0.551)
HCV(+)	-0.107	(-0.245, 0.031)
HBV(+)	-0.043	(-0.138, 0.052)
HBV, missing	-0.154	(-0.241, -0.066)
Education level (Ref: Below high school)		
Above high school	-0.018	(-0.074, 0.038)
Missing	-0.155	(-0.268, -0.043)
Medicare as primary payer	0.038	(-0.016, 0.093)
Age (<25)	0.000	(-0.009, 0.009)
Age (≥25)	0.000	(-0.003, 0.003)
Female	0.010	(-0.046, 0.067)
Race (Ref: White)		
Black	0.011	(-0.069, 0.090)
Hispanic	0.058	(-0.024, 0.139)
Other	0.030	(-0.118, 0.178)
BMI, kg/m <sup>2</sup> (Ref: 18.5-25)		
<18.5	-0.029	(-0.190, 0.132)
25-30	0.013	(-0.055, 0.081)
≥30	0.038	(-0.032, 0.107)
Missing	0.203	(0.006, 0.401)
HLA-A mismatches (Ref: 0)		
1	-0.021	(-0.126, 0.084)
2	0.013	(-0.092, 0.117)
HLA-B mismatches (Ref: 0)		
1	0.050	(-0.083, 0.183)
2	0.063	(-0.066, 0.192)
HLA-DR mismatches (Ref: 0)		
1	0.013	(-0.072, 0.098)
2	0.026	(-0.063, 0.115)
Induction agent (Ref: ATG)		
None	0.173	(0.085, 0.260)
IL2RA	-0.145	(-0.241, -0.049)
Alem	0.018	(-0.053, 0.088)
Others	0.140	(-0.025, 0.304)
HCV(+)	-0.003	(-0.199, 0.192)
Donation after cardiac death	-0.035	(-0.112, 0.041)
Diabetes (Ref: No)		
Yes	-0.031	(-0.132, 0.069)
Missing	-0.048	(-0.476, 0.379)
Hypertension (Ref: No)		
Yes	-0.049	(-0.115, 0.017)
Missing	0.112	(-0.268, 0.491)
Stroke as the cause of donor death	0.023	(-0.041, 0.087)
Machine perfusion (Ref: No)		
Yes	0.034	(-0.029, 0.097)
Missing	-0.129	(-0.321, 0.063)

Terminal serum creatinine, mg/dl (<0.8)	-0.170	(-0.416, 0.075)
Terminal serum creatinine, mg/dl ( $\geq$ 0.8)	0.033	(0.007, 0.059)
Terminal serum creatinine, missing	-0.608	(-2.004, 0.788)
Cold ischemic time, Hr	0.001	(-0.002, 0.004)
Cold ischemic time, missing	-0.242	(-0.561, 0.076)

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