

Appendix 1: Odds ratio for cardiac arrest by risk factor

Risk factor	Odds ratio (95% CI)
Family history of CA (vs no Fhx)	1.47 (1.21 – 1.78)*
Age (per 5 years)	1.07 (1.04 – 1.11)
Female (vs male)	0.90 (0.76 – 1.06)
Vintage (per 5 years)	0.95 (0.85 – 1.04)
Time period (per year)	0.88 (0.86 – 0.90)
African American (vs Caucasian)	1.37 (1.15 – 1.63)
Other (vs Caucasian)	0.69 (0.43 – 1.10)
HTN (vs diabetic)	0.82 (0.67 – 1.01)
Other (vs diabetic)	0.61 (0.49 – 0.75)
AVF (vs catheter)	1.02 (0.83 – 1.25)
AVG (vs catheter)	0.93 (0.76 – 1.14)
BMI (kg/m ²)	1.00 (0.99 – 1.00)
Systolic BP (per 5 mmHg)	1.00 (0.98 – 1.03)
Diastolic BP (per 5 mmHg)	1.01 (0.98 – 1.04)
Albumin (per 0.2 mg/dL)	0.75 (0.64 – 0.87)
Hemoglobin (per g/dL)	1.01 (0.96 – 1.06)
EPO (per 1000 units)	1.03 (1.02 – 1.04)
Potassium (per meq/L)	1.18 (1.07 – 1.32)
Calcium (per mg/dL)	0.98 (0.89 – 1.07)
Bicarbonate (per meq/L)	1.01 (0.99 – 1.02)
Magnesium (per mg/dL)	1.20 (0.88 – 1.65)
dCa _{≤2} (vs dCa _{>2})	0.68 (0.53 – 0.88)
dK _{≤1} (vs dK _{>1})	1.00 (0.68 – 1.46)
CAD (vs none)	1.44 (1.20 – 1.71)
CHF (vs none)	1.16 (0.98 – 1.37)
CVA (vs none)	0.85 (0.66 – 1.10)
Aspirin (vs non-use)	1.01 (0.85 – 1.20)
ACEI-ARB (vs non-use)	1.09 (0.91 – 1.31)
Beta-blocker (vs non-use)	1.05 (0.89 – 1.24)

CA cardiac arrest, HTN hypertension, AVF arteriovenous fistula, AVG arteriovenous graft, PD peritoneal dialysis, BMI body mass index, BP blood pressure, CAD coronary artery disease, CHF congestive heart failure, ACEI angiotensin converting enzyme inhibitor, ARB angiotensin receptor blocker; CVA stroke; dCa dialysate calcium; dK dialysate potassium

*OR=1.45 (1.19-1.75) in a modified model where nonlinear variables albumin, potassium, bicarbonate, EPO, and systolic blood pressure were transformed into categorical variables.

Appendix 2: Reason for dialysis discharge, by study group

	Unrelated	Related pair		Unrelated
	Unrelated match to A	Family member A	Family member B	Unrelated match to B
Fatal cardiac arrest (%)	12.4	13.6	16.7	14.9
Death or withdrawal (%)	38.9	42.4	49.4	43.7
Deaths from cardiac arrest (%)	31.9	32.1	33.8	34.0