

Table S6. Risk of Incident End-Stage Renal Disease Associated with Decline and Rise in Measured and Estimated Glomerular Filtration Rate Over a One-Year Period Accounting for the Competing Risk of Death

Filtration Marker	MDRD		AASK	
	HR ^a (95% CI)	P-value	HR ^a (95% CI)	P-value
	per 30% decline		per 30% decline	
mGFR	2.01 (1.24-3.26)	0.01	3.44 (1.90-6.22)	<0.001
eGFR _{Cr}	2.01 (1.28-3.16)	0.002	4.56 (2.33-8.95)	<0.001
eGFR _{Cys}	1.75 (1.02-3.02)	0.04	1.77 (0.90-3.48)	0.1
eGFR _{βTP}	1.59 (0.74-3.42)	0.2	8.27 (3.80-18.01)	<0.001
eGFR _{β2M}	1.94 (1.19-3.17)	0.01	1.34 (0.67-2.66)	0.4
Average of 4 markers ^c	2.02 (1.13-3.60)	0.02	2.52 (1.06-6.02)	0.04

Filtration Marker	MDRD		AASK	
	HR ^b (95% CI)	P-value	HR ^b (95% CI)	P-value
	per 30% increase		per 30% increase	
mGFR	0.75 (0.37-1.55)	0.4	0.43 (0.19-1.01)	0.05
eGFR _{Cr}	0.49 (0.18-1.36)	0.2	0.45 (0.16-1.28)	0.1
eGFR _{Cys}	0.45 (0.21-0.97)	0.04	0.43 (0.17-1.06)	0.07
eGFR _{βTP}	0.23 (0.05-0.97)	0.05	0.64 (0.49-0.83)	<0.001
eGFR _{β2M}	0.50 (0.26-0.93)	0.03	0.22 (0.08-0.59)	0.003
Average of 4 markers ^c	0.28 (0.10-0.80)	0.02	0.27 (0.08-0.97)	0.05

^a HR expressed per 30% decline in mGFR or eGFR calculated by modeling percent change in mGFR or eGFR below 0% (linear spline term with a knot at 0%); adjusted for age, sex, race, body mass index, systolic blood pressure, diabetes, total cholesterol, randomized treatment

group, study group (for MDRD only), and first measurement of mGFR or eGFR for the respective filtration marker

^b HR expressed per 30% increase in mGFR or eGFR calculated by modeling percent change in mGFR or eGFR above 0% (linear spline term with a knot at 0%); adjusted for age, sex, race, body mass index, systolic blood pressure, diabetes, total cholesterol, randomized treatment group, study group (for MDRD only), and first measurement of mGFR or eGFR for the respective filtration marker

^c Average of 4 markers = $(\% \Delta \text{eGFR}_{\text{Cr}} + \% \Delta \text{eGFR}_{\text{Cys}} + \% \Delta \text{eGFR}_{\beta\text{TP}} + \% \Delta \text{eGFR}_{\beta\text{2M}})/4$

AASK, African American Study of Kidney Disease and Hypertension; CI, confidence interval; eGFR, estimated glomerular filtration rate; ESRD, end-stage renal disease; HR, hazard ratio; MDRD, Modification of Diet in Renal Disease; mGFR, measured glomerular filtration rate