

Supplemental Material

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Supplemental Figure 1. Summary of methods.


Step 1:

Identify cohorts based on eGFR inclusion criteria
(See Figure 1)




Step 2:

Two models of individual patient trajectories from:
(1) eGFR 45 mL/min/1.73 m² to final pre-ESKD eGFR
(2) KFRE at eGFR 45 mL/min/1.73 m² to final
pre-ESKD KFRE



Step 3:

Use models in Step 2 to calculate differences in times by:
(1) eGFR 20 to eGFR 5 mL/min/1.73 m², and
(2) KFRE 25% to eGFR 5 mL/min/1.73 m²



Step 4:

Use calculated times as derived in prior step and
compare time differences by race/ethnicity
(See Table 2)

Supplemental Table 1. Characteristics of patients included and excluded from study.

n (Column %) or Median (IQR)	Included in Study N=1,290	Excluded from Study N=18,632
Age at cohort entry (years)	58 (48, 66)	60 (50, 69)
Sex		
Male	730 (57)	10,863 (58)
Female	560 (43)	7,767 (42)
Non-Binary/Unknown	0 (0)	2 (0)
Hypertension	1,066 (83)	16,310 (88)
Systolic blood pressure (mmHg) if available	139 (126, 154)	138 (122, 154)
Missing SBP	0 (0)	1,411 (8)
Diabetes	438 (34)	7,024 (38)
Insurance Type		
Medicare	328 (25)	5,735 (31)
Medicaid	322 (25)	2,482 (13)
Commercial	464 (36)	7,297 (39)
Other	176 (14)	274 (1)
Unknown	0 (0)	2,844 (15)
Urine albumin/creatinine ratio (mg/g) if available	469 (252, 1386)	67 (12, 337)
Missing urine albumin/creatinine	0 (0)	13,442 (72)
Years from First to Last eGFR	1.6 (0.8, 3.1)	0.0 (0.0, 0.3)
First eGFR available under 45 mL/min/1.73 m ²)	28 (20, 38)	12 (8, 22)
Last eGFR available (mL/min/1.73 m ²)	11 (8, 17)	11 (7, 17)
eGFR at ESKD (if applicable) in mL/min/1.73 m ²	9 (7, 12)	9 (7, 12)
ESKD (dialysis or transplant)	862 (67)	13,245 (71)
Death before reaching eGFR of 5 mL/min/1.73 m ²	209 (16)	6,247 (34)

Supplemental Table 2. Multivariable Model of Predicted Months to an eGFR of 5 mL/min/1.73 m² from either an eGFR of 20 mL/min/1.73 m² or KFRE score of 25% by race/ethnicity.

Time difference by different characteristics	eGFR 20 to eGFR 5 mL/min/1.73 m ²			KFRE 25% to eGFR 5 mL/min/1.73 m ²		
	β (months)	95% CI	p-value	β (months)	95% CI	p-value
Race						
Asian/Pacific Islander	-7.8	[-12.6, -2.9]	0.002	-5.2	[-10.5, 0.1]	0.05
Black	-4.8	[-9.8, 0.2]	0.06	-2.7	[-8.1, 2.8]	0.34
Hispanic	-6.2	[-11.3, -1.0]	0.019	-5.5	[-11.1, 0.1]	0.05
Non-Hispanic White	Reference			Reference		

Models adjusted for age, sex, diabetes, systolic blood pressure, albuminuria, mediana neighborhood income by zip code, and insurance type

Supplemental Table 3. Predicted Months to eGFR of 5 mL/min/1.73 m² from either an eGFR of 20 mL/min/1.73 m² or a KFRE score of 20% by race/ethnicity with bootstrapped comparisons across models.

Time difference	eGFR 20 to eGFR 5 mL/min/1.73 m ²			KFRE 20% to eGFR 5 mL/min/1.73 m ²			Bootstrapped Differences across the eGFR versus KFRE model		
	β (months)	95% CI	p-value	β (months)	95% CI	p-value	Difference	95% CI	p-value
Race									
Asian/Pacific Islander	-9.6	[-14.5, -4.7]	<0.001	-6.4	[-12.3, -0.5]	0.034	3.2	[0.0, 6.3]	0.049
Black	-6.6	[-11.4, -1.8]	0.007	-3.7	[-9.6, 2.1]	0.21	2.9	[-0.5, 6.3]	0.094
Hispanic	-10.2	[-15.3, -5.1]	<0.001	-4.7	[-10.9, 1.5]	0.14	5.6	[2.0, 9.1]	0.002
Non-Hispanic White	Reference			Reference					

Supplemental Table 4. Predicted Time difference between an eGFR of 20 to 5 mL/min/1.73 m² constructing trajectories using either all available eGFRs, 1 random eGFR per 3 month period, or the median eGFR per 3 month period by race/ethnicity.

	eGFR 20 to 5 mL/min/1.73 m ² (Using all eGFRs available)			eGFR 20 to 5 mL/min/1.73 m ² (Using one random eGFR per 3mo period)			eGFR 20 to 5 mL/min/1.73 m ² (Using the median per 3mo period)		
	β (months)	95% CI	p-value	β (months)	95% CI	p-value	β (months)	95% CI	p-value
Race									
Asian/Pacific Islander	-10.3	[-15.3, -5.4]	<0.001	-7.9	[-12.5, -3.3]	0.001	-9.3	[-14.1, -4.5]	<0.001
Black	-6.8	[-11.7, -1.9]	0.007	-6.5	[-11.0, -2.0]	0.004	-5.7	[-10.4, -1.1]	0.016
Hispanic	-10.2	[-15.3, -5.1]	<0.001	-8.0	[-12.8, -3.3]	0.001	-8.2	[-13.1, -3.2]	0.001
Non-Hispanic White		Reference			Reference			Reference	

Supplemental Table 5. Comparison of time (in months) by race/ethnicity using actual eGFR at ESKD onset when available in sensitivity analysis.

	Time difference by race/ethnicity from eGFR of 20 mL/min/1.73 m ² to 5 mL/min/1.73 m ² or Actual KRT date			Time difference by race/ethnicity from a KFRE of 25% to eGFR of 5 mL/min/1.73 m ² or Actual KRT date			Differences across models (with bootstrapped CI)		
	β (months)	95% CI	p-value	β (months)	95% CI	p-value	Difference	95% CI	p-value
Race									
Asian/Pacific Islander	-0.5	[-0.9, -0.1]	0.014	-0.1	[-0.5, 0.4]	0.77	0.5	[0.2, 0.7]	0.001
Black	-0.2	[-0.6, 0.2]	0.31	0.1	[-0.4, 0.6]	0.66	0.3	[0.0, 0.6]	0.033
Hispanic	-0.7	[-1.1, -0.2]	0.003	-0.2	[-0.7, 0.2]	0.31	0.4	[0.1, 0.7]	0.007
Non-Hispanic White		Reference			Reference				

KRT = kidney replacement therapy

Supplemental Table 6. Predicted Months to eGFR of 5 mL/min/1.73 m² from either an eGFR of 20 mL/min/1.73 m² or a KFRE score of 25% by race/ethnicity with bootstrapped comparisons across models, excluding 209 patients who died during follow-up.

	eGFR 20 to eGFR 5 mL/min/1.73 m ²			KFRE 25% to eGFR 5 mL/min/1.73 m ²			Differences across models (with bootstrapped CI)		
	β (months)	95% CI	p-value	β (months)	95% CI	p-value	Difference	95% CI	p-value
Race									
Asian/Pacific Islander	-11.0	[-16.4, -5.6]	<0.001	-6.1	[-11.9, -0.2]	0.042	4.9	[1.5, 8.4]	0.005
Black	-6.6	[-12.0, -1.3]	0.016	-3.0	[-8.9, 2.8]	0.30	3.6	[-0.1, 7.3]	0.059
Hispanic	-10.2	[-15.8, -4.6]	<0.001	-5.0	[-11.0, 1.1]	0.10	5.3	[1.4, 9.1]	0.007
Non-Hispanic White		Reference			Reference				