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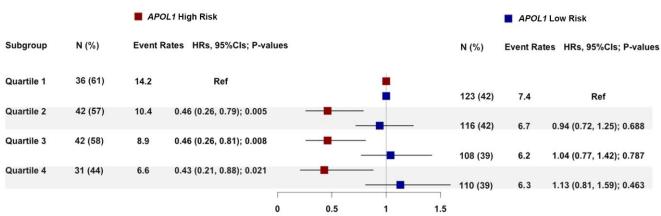
Supplemental Tabl	e 1: Sensitivity A	nalysis for the Time t Participants in t	o event Analyses he Chronic Renal			n with CKD outcom	nes in Black	
	Event rate N (%)	Incidence rates (per 100 person- years)	Unadjusted	Model 3	Sensitivity 1: Model 3 + Systolic BP	Sensitivity 2: Model 3 + UACR	Sensitivity 3: Model 3 + Dietary Calorie	
Quartiles of 24hour Urinary Potassium (mmol/24hrs)		CKD Progression						
Urinary K <34.7	141 (41)	6.0.	ref	ref	ref	ref	ref	
Urinary K 34.7-43.4	138 (40)	6.1	1.01 (0.80, 1.27)	0.95 (0.74, 1.21)	0.98 (0.77, 1.26)	0.84 (0.65, 1.08)	0.90 (0.67, 1.19)	
Urinary K 43.5-54.4	155 (45)	7.2	1.19 (0.95, 1.50)	1.06 (0.83, 1.36)	0.98 (0.76, 1.27)	0.96 (0.74, 1.24)	0.95 (0.71, 1.28)	
Urinary K >53.4	171 (50)	9.2	1.54 (1.23, 1.92)	1.26 (0.96, 1.64)	1.21 (0.92, 1.58)	0.90 (0.68, 1.19)	1.12 (0.82, 1.52)	
Quartiles of 24hour Urinary Potassium (mmol/24hrs)		CKD Progression or Death						
Urinary K <34.7	199 (58)	7.1	ref	ref	ref	ref	ref	
Urinary K 34.7-43.4	203 (59)	7.3	1.04 (0.85, 1.26)	0.91 (0.74, 1.12)	0.91 (0.74, 1.12)	0.84 (0.68, 1.04)	0.86 (0.68, 1.09)	
Urinary K 43.5-54.4	222 (64)	8.6	1.22 (1.01, 1.48)	1.00 (0.81, 1.23)	0.93 (0.75, 1.15)	0.93 (0.75, 1.15)	0.91 (0.71, 1.16)	
Urinary K >53.4	244 (71)	11.1	1.57 (1.30, 1.90)	1.17 (0.93, 1.46)	1.11 (0.89, 1.39)	0.96 (0.76, 1.21)	1.07 (0.83, 1.39)	

^{*}Model 3 = Adjusted for clinic sites, age, sex, education, urinary creatinine excretion, waist circumference, body-mass index, cigarette smoking, alcohol drinking, physical activity, history of hypercholesterolemia, history of diabetes, history of cardiovascular disease, use of diuretics, use of renin-angiotensin system blocking agents, and use of other antihypertensive medications, baseline eGFR for urinary sodium excretion in potassium models and urinary potassium excretion in the urinary sodium models

Supplemental Figure 1: Associations of Urinary Potassium Excretion (Average Urine Potassium) With Chronic Kidney Disease Progression Stratified by Apolipoprotein L1 Genotypes

S1A.

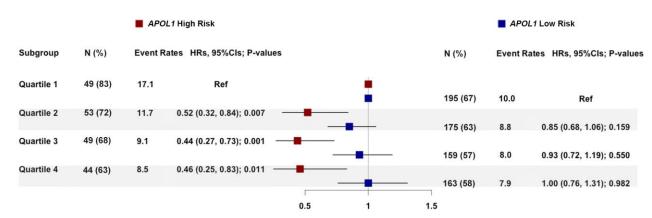
24h urine averaged potassium and CKD progression by APOL1 risk levels



Supplemental Figure 1A: Time to event analyses for average 24h urinary potassium excretion with CKD progression defined as 50% decline in eGFR or incident kidney failure stratified by Apolipoprotein L1 genotypes in CRIC. Model adjusted for clinic sites, age, sex, education, urinary creatinine excretion, waist circumference, body-mass index, cigarette smoking, alcohol drinking, physical activity, history of hypercholesterolemia, history of diabetes, history of cardiovascular disease, use of diuretics, use of renin-angiotensin system blocking agents, and use of other antihypertensive medications, baseline eGFR, and average 24h urinary sodium excretion. Unadjusted p for interaction urinary potassium x *APOL1* risk = 0.20 (not shown in figure), for fully adjusted model (Figure S1A), p for interaction 0.30.

S1B.

24h urine averaged potassium and CKD progression or Death by APOL1 risk levels



Supplemental Figure 1B: Time to event analyses for average 24h urinary potassium excretion with CKD progression or death stratified by Apolipoprotein L1 genotypes in CRIC. Model adjusted for clinic sites, age, sex, education, urinary creatinine excretion, waist circumference, body-mass index, cigarette smoking, alcohol drinking, physical activity, history of hypercholesterolemia, history of diabetes, history of cardiovascular disease, use of diuretics, use of renin-angiotensin system blocking agents, and use of other antihypertensive medications, baseline eGFR, and average 24h urinary sodium excretion. P for interaction urinary potassium excretion x *APOL1* risk allele in unadjusted model = 0.21 (not shown in figure), for fully adjusted model (Figure S1B), p for interaction =0.08.

Supplemental Table 2: Baseline Characteristics of Black Participants in the Chronic Renal Insufficiency Cohort across Calibrated 24-hour Urinary Sodium Quartiles

	24-hour urinary sodium					
	Quartile 1	Quartile 2	Quartile 3	Quartile 4		
N	345	345	345	345		
Range of urinary Sodium (mmol/24hrs)	<117.8	117.8-149.6	149.7-187.8	>187.8		
Age, years	57.9 (10.8)	58.2 (11.1)	58.6 (9.9)	58.5 (10.4)		
Male#	110 (32)	151 (44)	194 (56)	234 (68)		
Annual Household Income≤\$50,000/year#	208 (60)	222 (64)	219 (64)	230 (67)		
Education level (<high graduate)#<="" school="" td=""><td>70 (20)</td><td>91 (27)</td><td>88 (26)</td><td>102 (30)</td></high>	70 (20)	91 (27)	88 (26)	102 (30)		
Current smoking#	62 (18)	59 (17)	66 (19)	74 (21)		
Total Metabolism Score from Physical Activity	2.9 (1.2)	3.0 (1.1)	3.0 (1.2)	3.0 (1.2)		
Weekly alcohol intake#	38 (11)	41 (12)	57 (17)	53 (15)		
African Ancestry %	77.4 (10)	77.9 (9)	77.8 (9)	76.8 (10)		
Hypertension#	315 (91)	318 (92)	323 (94)	325 (94)		
Diabetes#	141 (41)	164 (48)	186 (54)	210 (61)		
Hx of cardiovascular disease#	115 (33.3)	126 (36.5)	130 (37.7)	150 (43.5)		
Antihypertensive medication use#	311 (97)	316 (98)	316 (98)	320 (98)		
Systolic blood pressure, mmHg	130 (22.3)	130 (21.3)	133 (22.7)	136 (23.0)		
Diastolic blood pressure, mmHg	73 (13.9)	73 (13.7)	75 (12.7)	75 (14.4)		
Body mass index, kg/m²	32.6 (7.8)	34.4 (7.6)	33.1 (7.5)	33.1 (8.4)		
Waist circumference, cm	105.5 (18.5)	109.8 (16.8)	107.3 (16.3)	109.0 (19.0)		
APOL1 status# 0-1 risk variants	264 (77)	280 (81)	278 (81)	282 (82)		
2 risk variants	81 (23)	65 (19)	67 (19)	63 (18)		
Aldosterone*	104 (72, 162)	99 (69, 153)	103 (74, 152)	103 (73,148)		
Urinary protein, mg/24 hours*	130 (68, 539)	228 (71, 880)	228 (77, 1019)	611 (120, 1752)		
Urinary Creatinine, mg/24 hours	1475 (654)	1453 (644)	1411 (592)	1232 (539)		
Total Caloric intake, kcal/24h	1803 (808)	1811 (815)	1914 (920)	1993 (995)		
Plasma potassium, mmol/L	4.17 (0.53)	4.29 (0.50)	4.22 (0.53)	4.33 (0.55)		
eGFR, ml/min/1.73m ²	44 (15.0)	45 (14.5)	45 (15.7)	43 (14.2)		

Values represented as mean and standard deviation except where indicated # which represents n(%), * median(IQR), APOL1=Apolipoprotein L1, eGFR=estimated glomerular filtration rate.

Supplemental Table 3: Sensitivity Analysis for the Time to event Analyses for Calibrated 24h Urinary Sodium with CKD outcomes in Black Participants in the Chronic Renal Insufficiency Cohort

	Event rates N (%)	Incidence rate (per 100 person- years)	Unadjusted	Model 3	Sensitivity1: Model 3 + Systolic BP	Sensitivity2: Model 3 + UACR	Sensitivity3: Model 3 + Dietary Calorie
Quartiles of 24hour Urinary Sodium (mmol/24hrs)		· · ·		CKD Progression	·		-
Urinary Na <114.7	131 (38)	5.8	ref =1	ref =1	ref =1	ref =1	ref =1
Urinary Na 114.8-152.9	150 (43)	6.4	1.11 (0.88, 1.40)	1.02 (0.80, 1.29)	1.06 (0.83, 1.35)	0.91 (0.71, 1.16)	1.01 (0.77, 1.32)
Urinary Na 153.1-193.5	137 (40)	6.0	1.03 (0.81, 1.31)	0.90 (0.70, 1.16)	0.86 (0.67, 1.11)	0.69 (0.53, 0.89)	0.89 (0.67, 1.20)
Urinary Na >193.5	187 (54)	10.6	1.83 (1.46, 2.28)	1.20 (0.94, 1.55)	1.21 (0.94, 1.55)	0.89 (0.69, 1.15)	1.15 (0.86, 1.55)
				CKD Progression	or Death		
Urinary Na <114.7	197 (57)	7.2	ref =1	ref =1	ref =1	ref =1	ref =1
Urinary Na 114.8-152.9	203 (59)	7.3	1.00 (0.82, 1.22)	0.92 (0.75, 1.13)	0.94 (0.77, 1.15)	0.82 (0.67, 1.01)	0.92 (0.73, 1.16)
Urinary Na 153.1-193.5	207 (60)	7.6	1.05 (0.86, 1.28)	0.88 (0.72, 1.08)	0.86 (0.70, 1.06)	0.74 (0.60, 0.92)	0.84 (0.66, 1.07)
Urinary Na >193.5	261 (76)	12.7	1.76 (1.46, 2.12)	1.20 (0.97, 1.48)	1.19 (0.97, 1.47)	0.96 (0.78, 1.19)	1.19 (0.93, 1.52)

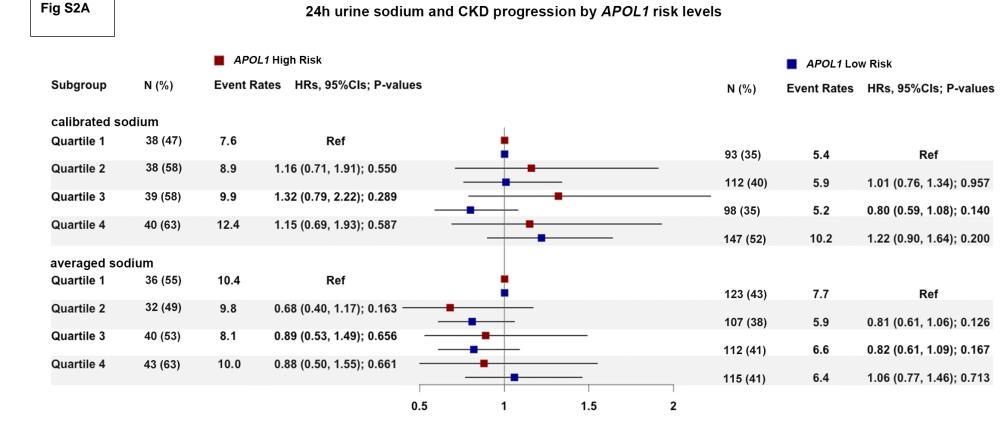
^{*}Model 3 = Adjusted for clinic sites, age, sex, education, urinary creatinine excretion, waist circumference, body-mass index, cigarette smoking, alcohol drinking, physical activity, history of hypercholesterolemia, history of diabetes, history of cardiovascular disease, use of diuretics, use of renin-angiotensin system blocking agents, and use of other antihypertensive medications, baseline eGFR, for urinary sodium excretion in potassium models and urinary potassium excretion in the urinary sodium models. Outcomes, 1) CKD progression defined as 50% decline in estimated glomerular filtration rate (eGFR) or kidney failure 2) CKD progression or death.

Supplemental Table 4: Interaction Analyses for 24h Calibrated Urinary Sodium and Urinary Potassium and APOL1 risk status with the Hazards of CKD Progression and CKD Progression or Death

	Model 3 + systolic	Model 3 +24h urine	Model 3 +calorie intake	Model 3 +serum
Interaction analyses	blood pressure	albumin creatinine ratio		albumin
P for interaction for CKD progression				
Urinary sodium excretion x APOL1 risk	0.046	0.083	0.773	0.246
allele				
Urinary potassium excretion x APOL1	0.001	0.010	0.035	0.006
risk allele				
P for interaction for CKD progression				
or death				
Urinary sodium excretion x APOL1 risk	0.268	0.122	0.844	0.445
allele				
Urine potassium excretion x APOL1	0.019	0.056	0.139	0.028
risk allele				

^{*}Model 3 = Adjusted for clinic sites, age, sex, education, urinary creatinine excretion, waist circumference, body-mass index, cigarette smoking, alcohol drinking, physical activity, history of hypercholesterolemia, history of diabetes, history of cardiovascular disease, use of diuretics, use of renin-angiotensin system blocking agents, and use of other antihypertensive medications, baseline eGFR for urinary sodium excretion in potassium models and urinary potassium excretion in the urinary sodium models. Outcomes, 1) CKD progression defined as 50% decline in estimated glomerular filtration rate (eGFR) or kidney failure 2) CKD progression or death.

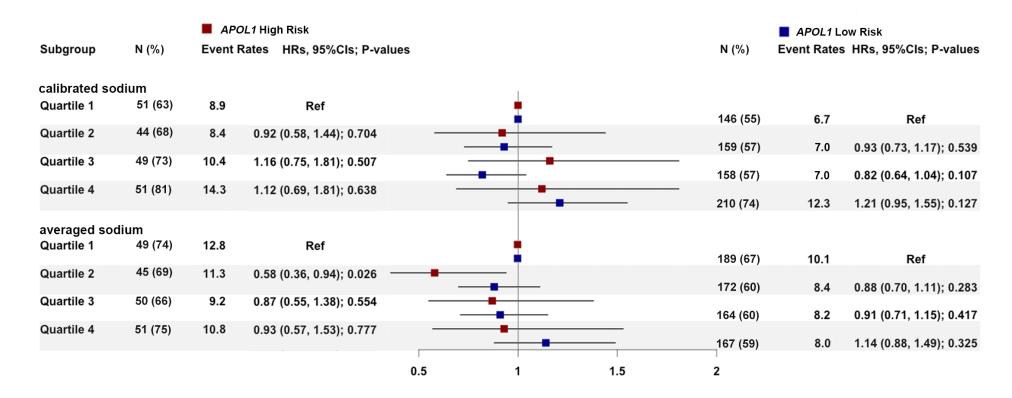
Supplemental Figure 2: Associations of 24-hour Urinary Sodium Excretion with Chronic Kidney Disease Stratified by Apolipoprotein L1 Genotypes



Supplemental Figure 2A: Time to event analyses of 24hour urinary sodium excretion (calibrated and average) with CKD progression defined as 50% decline in eGFR or incident kidney failure stratified by Apolipoprotein L1 genotypes in the Chronic Renal Insufficiency Cohort. Model adjusted for clinic sites, age, sex, education, urinary creatinine excretion, waist circumference, body-mass index, cigarette smoking, alcohol drinking, physical activity, history of hypercholesterolemia, history of diabetes, history of cardiovascular disease, use of diuretics, use of renin-angiotensin system blocking agents, and use of other antihypertensive medications, baseline eGFR for and urinary potassium excretion. For CKD progression, p for interaction for calibrated urinary sodium excretion x *APOL1* risk allele in unadjusted models = 0.37 and fully adjusted model, p for interaction = 0.13. For CKD progression or death, p for interaction for average urinary sodium excretion x *APOL1* risk allele in unadjusted models = .74 and fully adjusted model, p for interaction = 0.88.

Fig S2B

24h urine sodium and CKD progression or death by APOL1 risk levels



Supplemental Figure 2B: Time to event analyses of 24-hour urinary sodium excretion (calibrated and average) with CKD progression or death stratified by Apolipoprotein L1 genotypes in the Chronic Renal Insufficiency Cohort. Model adjusted for clinic sites, age, sex, education, urinary creatinine excretion, waist circumference, body-mass index, cigarette smoking, alcohol drinking, physical activity, history of hypercholesterolemia, history of diabetes, history of cardiovascular disease, use of diuretics, use of renin-angiotensin system blocking agents, and use of other antihypertensive medications, baseline eGFR for and urinary potassium excretion. For CKD progression or death, p for interaction for calibrated urinary sodium excretion x *APOL1* risk allele in unadjusted models = 0.69 and fully adjusted model, p for interaction = 0.76. For average urinary sodium excretion x *APOL1* risk allele in unadjusted model, p for interaction = 0.73.