

Table S2. Multivariable Linear Regression Model of Participant Characteristics with Serum Bicarbonate Levels (mEq/L)

Characteristic	β (95% CI)	P
Age (per 10 years)	0.26 (0.19,0.33)	<0.001
Men	0.78 (0.66,0.91)	<0.001
Race/Ethnicity		
Mexican American	-0.36 (-0.70,-0.03)	0.03
Non-Hispanic Black	0.46 (0.19,0.72)	0.001
Other	0.05 (-0.34,0.44)	0.8
Body-mass index (per 1 kg/m ²)	-0.04 (-0.05,-0.04)	<0.001
Poverty (<100% poverty index)	-0.12 (-0.30,0.05)	0.2
Less than high-school diploma	-0.005 (-0.14,0.13)	0.9
Activity Level (MET-min/wk)		
< 500	-0.06 (-0.23,0.12)	0.5
500 – 2000	-0.09 (-0.27,0.09)	0.3
> 2000	-0.06 (-0.27,0.14)	0.5
Smoking		
Former	-0.16 (-0.31,-0.02)	0.03
Current	-0.47 (-0.68,0.27)	<0.001
Estimated NEAP (per 10 mEq/day)	-0.06 (-0.08,-0.04)	<0.001
Fasting length ≤ 2 hours	0.43 (0.11,0.76)	0.01
Diuretic use	0.97 (0.73,1.22)	<0.001
Calcium carbonate use	0.13 (-0.26,0.53)	0.5
Hypertension	-0.16 (-0.29,-0.03)	0.02
Diabetes Mellitus	-0.22 (-0.43,-0.01)	0.04
Cardiovascular disease	-0.33 (-0.53,-0.13)	0.002
eGFR (10 mL/min/1.73m ²)	0.06 (0.01,0.10)	0.03
UACR > 30 mg/g (%)	-0.17 (-0.37,0.04)	0.1
Serum albumin (g/dL)	0.39 (-0.05,0.84)	0.08
Serum calcium (mg/dL)	0.32 (-0.002,0.65)	0.05
Serum phosphate (mg/dL)	0.02 (-0.12,0.16)	0.8
C-reactive protein ≥ 1.0 mg/dL	0.08 (-0.12,0.28)	0.4

Abbreviations: MET, metabolic equivalent; BP, blood pressure; NEAP, net endogenous acid production; eGFR, estimated glomerular filtration rate; UACR, urinary albumin-creatinine ratio. Multivariable model adjusted for all variables listed in the Table. Reference categories are women for sex, non-Hispanic white for race/ethnicity; 0 Met-min/wk for activity level; non-smokers for smoking status; fasting length ≤ 2 hours; and CRP <1.0 mg/dL