

**Table S1.** Demographic, socioeconomic, and health status characteristics of Emory-Georgia Tech Predictive Health Initiative cohort (2008-2013)<sup>\*</sup>, by race (number of subjects and percentages and mean and standard deviation)

Characteristic	n	White (n 457)		Black (n 145)		P <sup>†</sup>
		n	%	n	%	
Age <sup>‡</sup> , years						0.002
Mean		49.4		46.1		
SD		11.0		9.5		
Sex						<0.001
Male	176		38.5	16	11.0	
Female	281		61.5	129	89.0	
Ethnicity						0.69
Hispanic or Latino	8		1.8	1	0.7	
Non-Hispanic or Latino	449		98.3	144	99.3	
Education <sup>§</sup>						< 0.001
Less than high school	1		0.22	1	0.7	
Completed high school	5		1.1	12	8.3	
Some college	44		9.6	51	35.2	
Four years of college	109		23.9	35	24.1	
Any graduate school	298		65.2	46	31.7	
Annual household income <sup>‡</sup>						< 0.001
≤ \$50,000/yr	22		5.03	42	30.7	
>\$50,000-\$100,000/yr	109		24.9	59	43.1	
>\$100,000 - \$200,000/yr	179		41.0	33	22.6	
>\$200,000/yr	127		29.1	5	3.7	
Physical activity <sup>  </sup>	112		24.7	37	25.7	0.8
BMI <sup>‡</sup> , kg/m <sup>2</sup>						<0.001
Mean		27.2		31.7		
SD		5.7		7.7		
Current smoker <sup>‡</sup>	20		4.4	12	8.3	0.07
Comorbidities						
History of hypertension <sup>‡</sup>	77		16.9	46	31.7	<0.001
History of diabetes <sup>‡</sup>	20		4.4	13	9.0	0.04
Estimated glomerular filtration rate (eGFR) ≥ 60 ml/min <sup>‡</sup>	443		97.4	144	99.3	0.2
Any vitamin D supplementation <sup>¶</sup>	203		44.4	45	31.0	0.004
Multivitamin use	160		35.0	39	26.9	0.07
Iron supplement use <sup>‡</sup>	5		1.3	4	3.5	0.22
Season of visit <sup>‡</sup>						0.07
Winter	99		21.7	29	20.0	
Spring	69		15.1	30	20.7	
Summer	126		27.6	49	33.8	
Fall	162		35.5	37	25.5	

<sup>\*</sup>Restricted to participants with available vitamin D and hemoglobin values and of black or white race

<sup>†</sup>Two sample t-test for continuous variables, Chi-sq or Fisher's exact test for categorical variables

<sup>§</sup>Education refers to highest educational achievement; less than high school defined as less than 12<sup>th</sup> grade, completed high school defined as completion of 12<sup>th</sup> grade, some college defined as less than 4 years of college, and any graduate school includes both graduate and post-graduate education

<sup>||</sup>Meet CAPS guidelines for moderate physical activity

<sup>¶</sup>Vitamin D supplementation from any source (alone, in combined supplement, or in multivitamin)

‡age: n 456 and n 145 for whites and blacks, respectively; income: n 437 and n 137 for whites and blacks, respectively; physical activity: n 454 and n 144 for whites and blacks, respectively; BMI: n 456 and n 144 for whites and blacks, respectively; smoking: n 456 and n 144 for whites and blacks, respectively; hypertension: n 456 and n 145 for whites and blacks, respectively; diabetes: n 456 and n 145 for whites and blacks, respectively; eGFR: n 455 and n 145 for whites and blacks, respectively; iron supplementation: n 382 and n 116 for whites and blacks, respectively; season: n 456 and n 145 for whites and blacks, respectively