

Supplemental Table 1. Race-stratified ten year atrial fibrillation incidence rate in the Health, Aging and Body Composition cohort, per 1000 person-years follow-up.

Adiposity Measures	Category	Atrial Fibrillation Event Rate per 1000 Person-Years (95% CI)	
		Whites	Blacks
	Overall	19.7 (17.3, 22.1)	12.1 (9.9, 14.4)
BMI	18.5 to 25 kg/m ²	18.3 (14.4, 22.2)	13.0 (8.2, 17.8)
	25.1 to 30 kg/m ²	19.0 (15.5, 22.5)	10.0 (6.7, 13.3)
	30.1 to 40 kg/m ²	22.7 (16.0, 29.4)	14.6 (9.7, 19.5)
	>40.1 kg/m ²	29.9 (14.8, 45.0)	12.0 (5.7, 18.2)
Abdominal circumference	1 st Quartile	16.0 (11.7, 20.4)	11.0 (6.7, 15.3)
	2 nd Quartile	22.3 (17.4, 27.1)	9.3 (5.0, 13.7)
	3 rd Quartile	16.9 (12.5, 21.4)	11.8 (7.3, 16.2)
	4 th Quartile	23.6 (18.0, 29.1)	15.7 (10.9, 20.5)
SAT	1 st Quartile	23.5 (18.3, 28.7)	11.5 (6.2, 16.8)
	2 nd Quartile	16.4 (12.1, 20.6)	11.8 (6.8, 16.9)
	3 rd Quartile	17.1 (12.6, 21.6)	13.5 (8.5, 18.5)
	4 th Quartile	20.2 (14.5, 25.9)	10.2 (6.6, 13.8)
VAT	1 st Quartile	16.7 (11.7, 21.6)	7.9 (4.7, 11.2)
	2 nd Quartile	18.6 (14.0, 23.2)	15.1 (9.9, 20.4)
	3 rd Quartile	19.5 (14.6, 24.3)	11.8 (7.3, 16.3)
	4 th Quartile	21.3 (16.6, 26.0)	12.8 (7.3, 18.3)
Total Fat mass	1 st Quartile	20.9 (15.9, 25.8)	13.1 (8.1, 18.1)
	2 nd Quartile	19.4 (14.9, 23.9)	9.0 (4.7, 13.3)
	3 rd Quartile	15.5 (11.3, 19.6)	14.2 (9.1, 19.2)
	4 th Quartile	24.2 (18.2, 30.1)	11.3 (7.6, 15.1)
Total percent fat	1 st Quartile	23.1 (17.6, 28.5)	12.0 (7.3, 16.6)
	2 nd Quartile	22.0 (17.0, 27.0)	16.6 (10.8, 22.5)
	3 rd Quartile	15.6 (11.5, 19.8)	11.3 (6.8, 15.9)
	4 th Quartile	17.3 (12.4, 22.1)	9.1 (5.6, 12.7)

BMI indicates body mass index; SAT, subcutaneous abdominal fat; VAT, visceral abdominal fat; 95% CI, 95% confidence interval.

Supplemental Table 2. Race stratified multivariable Cox proportional hazard models demonstrating the incident AF hazard ratio per 1-SD increment in each of the adiposity measures.

		Model 1		Model 2		Model 3		Interaction
		HR (95%CI)	p	HR (95%CI)	p	HR (95%CI)	p	p*
Anthropometry								
BMI	Whites	1.14 (0.99, 1.32)	0.06	1.11 (0.96, 1.30)	0.16	N/A		
	Blacks	1.15 (0.96, 1.36)	0.12	1.13 (0.94, 1.36)	0.18	N/A		0.45
Abdominal circumference	Whites	1.09 (0.97, 1.26)	0.15	1.08 (0.94, 1.23)	0.29	N/A		
	Blacks	1.27 (1.07, 1.50)	0.005	1.27 (1.06, 1.52)	0.009	N/A		0.14
Computerized tomography								
SAT	Whites	1.17 (0.99, 1.39)	0.07	1.16 (0.98, 1.38)	0.09	N/A		
	Blacks	1.00 (0.81, 1.23)	0.99	0.98 (0.78, 1.22)	0.98	N/A		0.70
VAT	Whites	1.07 (0.95, 1.21)	0.25	1.04 (0.92, 1.19)	0.53	0.97 (0.82, 1.15)	0.74	
	Blacks	1.21 (0.99, 1.48)	0.06	1.16 (0.93, 1.45)	0.19	1.16 (0.90, 1.50)	0.26	0.62
Sum of SAT plus VAT	Whites	1.14 (0.98, 1.31)	0.08	1.12 (0.96, 1.30)	0.15	N/A		
	Blacks	1.08 (0.88, 1.31)	0.48	1.04 (0.84, 1.29)	0.75	N/A		0.93
DXA scan								
Total fat mass	Whites	1.19 (1.03, 1.37)	0.018	1.16 (0.99, 1.34)	0.06	N/A		
	Blacks	1.05 (0.87, 1.27)	0.60	1.04 (0.86, 1.27)	0.66	N/A		0.90
Total percent fat	Whites	1.10 (0.90, 1.35)	0.36	1.06 (0.85, 1.31)	0.62	0.96 (0.70, 1.30)	0.77	
	Blacks	0.92 (0.70, 1.21)	0.54	0.92 (0.69, 1.23)	0.58	0.74 (0.47, 1.15)	0.18	0.64

Model 1: adiposity measure, age, sex, race, and site. Model 2: model 1 + smoking, systolic and diastolic BP, treatment for hypertension, total to HDL cholesterol ratio, heart rate, ECG LVH, PR interval, prevalent heart failure, coronary artery disease, and diabetes. Model 3: model 2 + BMI. WHR indicates abdominal to thigh circumference ratio (waist to hip ratio); SAT, subcutaneous abdominal fat; VAT, visceral abdominal fat; DXA, dual-energy X-ray absorptiometry; HR, hazard ratio; 95% CI, 95% confidence interval. *P-value for interaction between each adiposity measure and race (derived from model 2).

Supplemental Table 3. Sex stratified multivariable Cox proportional hazard models demonstrating the incident AF hazard ratio per 1-SD increment in each of the adiposity measures.

		Model 1		Model 2		Model 3		Interaction
		HR (95%CI)	p	HR (95%CI)	p	HR (95%CI)	p	p*
Anthropometry								
BMI	Male	1.20 (1.08, 1.18)	0.026	1.18 (0.99, 1.39)	0.06	N/A		
	Female	1.10 (0.95, 1.28)	0.20	1.09 (0.93, 1.28)	0.27	N/A		0.64
Abdominal circumference	Male	1.14(1.001, 1.29)	0.048	1.13 (0.98, 1.30)	0.09	N/A		
	Female	1.17 (1.01, 1.36)	0.043	1.16 (0.99, 1.37)	0.06	N/A		0.14
Computerized tomography								
SAT	Male	1.12 (0.92, 1.37)	0.24	1.11 (0.90, 1.36)	0.33	N/A		
	Female	1.09 (0.92, 1.30)	0.33	1.10 (0.92, 1.32)	0.29	N/A		0.96
VAT	Male	1.09 (0.96, 1.24)	0.20	1.04 (0.91, 1.20)	0.56	0.94 (0.79, 1.54)	0.52	
	Female	1.13 (0.95, 1,35)	0.17	1.10 (0.91, 1.35)	0.32	1.09 (0.86, 1.39)	0.47	0.75
Sum of SAT plus VAT	Male	1.10 (0.93, 1.31)	0.25	1.10 (0.92, 1.32)	0.28	N/A		
	Female	1.13 (0.96, 1.32)	0.14	1.10 (0.92, 1.30)	0.30	N/A		0.94
DXA scan								
Total fat mass	Male	1.17 (0.99, 1.38)	0.06	1.14 (0.96, 1.35)	0.15	N/A		
	Female	1.11 (0.95, 1.30)	0.20	1.10 (0.94, 1.30)	0.24	N/A		0.89
Total percent fat	Male	1.05 (0.84, 1.32)	0.67	0.99 (0.78, 1.27)	0.97	0.80 (0.56, 1.13)	0.20	
	Female	1.03 (0.81, 1.30)	0.83	1.04 (0.81, 1.32)	0.77	0.99 (0.68, 1.44)	0.96	0.84

Model 1: adiposity measure, age, sex, race, and site. Model 2: model 1 + smoking, systolic and diastolic BP, treatment for hypertension, total to HDL cholesterol ratio, heart rate, ECG LVH, PR interval, prevalent heart failure, coronary artery disease, and diabetes. Model 3: model 2 + BMI. WHR indicates abdominal to thigh circumference ratio (waist to hip ratio); SAT, subcutaneous abdominal fat; VAT, visceral abdominal fat; DXA, dual-energy X-ray absorptiometry; HR, hazard ratio; 95% CI, 95% confidence interval. *P-value for interaction between each adiposity measure and race (derived from model 2).