

# **SUPPLEMENTAL MATERIAL**

**Table S1. Associations of BMI and NT-proBNP with incident AF in the ARIC cohort by sex and race.**

	<b>BMI &lt; 30 and NT-proBNP &lt; median</b>	<b>BMI ≥ 30 and NT-proBNP &lt; median</b>	<b>BMI &lt; 30 and NT-proBNP ≥ median</b>	<b>BMI ≥ 30 and NT-proBNP ≥ median</b>
	<b>HR (95% confidence intervals)</b>			
Men	ref	1.42 (1.15, 1.74)	2.27 (1.90, 2.70)	3.09 (2.51, 3.79)
Women	ref	1.64 (1.27, 2.12)	2.11 (1.70, 2.62)	2.99 (2.38, 3.79)
Blacks	ref	1.22 (0.84, 1.76)	2.74 (1.91, 3.95)	2.96 (2.0, 4.30)
Whites	ref	1.62 (1.36, 1.93)	2.08 (1.80, 2.41)	2.96 (2.52, 3.49)

ARIC: Atherosclerosis Risk in Communities; BMI, body mass index; CI, confidence interval; HR, hazard ratio; NT-proBNP, N-terminal pro B-type natriuretic peptide; ref, reference.

Cox proportional hazards model adjusted for age, sex, center, race, standing height, smoking, education, drinking, diabetes mellitus, myocardial infarction, aspirin, statin, hypnotic drugs, LVH by Cornell definition, P wave terminal force in V1, systolic blood pressure.

**Table S2. Associations of changes in NT-proBNP and BMI between visit 2 (1990-92) and visit 4 (1996-98) with incident AF by sex and race in ARIC.**

	NT-proBNP ↓		NT-proBNP ↑	
	BMI ↓	BMI ↑	BMI ↓	BMI ↑
	Hazard ratios (95% confidence intervals)			
Men	ref	0.89 (0.62, 1.28)	1.57 (1.13, 2.20)	1.68 (1.21, 2.33)
Women	ref	1.09 (0.80, 1.48)	1.60 (1.18, 2.17)	1.70 (1.27, 2.27)
Blacks	ref	0.89 (0.63, 1.69)	1.59 (0.99, 2.54)	1.85 (1.19, 2.88)
Whites	ref	0.99 (0.76, 1.30)	1.54 (1.19, 2.00)	1.64 (1.28, 2.11)

ARIC: Atherosclerosis Risk in Communities; BMI, body mass index; CI, confidence interval; HR, hazard ratio; NT-proBNP, N-terminal pro B-type natriuretic peptide; ref, reference.

Cox proportional hazards model adjusted for age, sex, BMI at visit 2, log (NT-ProBNP) at visit 2, race/center, height, smoking, education, drinking, diabetes mellitus, myocardial infarction, aspirin, statin, hypnotic drugs, PTFV1, systolic blood pressure and diastolic blood pressure.