

SUPPLEMENTARY MATERIAL

Table S1. Variables included in the risk prediction models and scores.

CHARGE-AF	Framingham	CHADS2	CHA2DS2-VASc
Age	Age	Age	Age
Race	Sex		Sex
Height	Body mass index		
Weight			
Smoking			
Systolic blood pressure	Systolic blood pressure	Hypertension	Hypertension
Diastolic blood pressure			
Hypertension meds	Hypertension meds		
	Cardiac murmur		
	PR interval		
Diabetes		Diabetes	Diabetes
Coronary heart disease			
Heart failure	Heart failure	Heart failure	Heart failure
		Stroke	Stroke
			Vascular disease
hsCRP*			
NT-proBNP*			

* Biomarker-enriched model. hsCRP: high-sensitivity C-reactive protein; NT-proBNP: N-terminal of the prohormone B-type natriuretic peptide

Table S2. Selected baseline characteristics of study participants by race/ethnicity, Multi-Ethnic Study of Atherosclerosis, 2000-2002

	Non-Hispanic White	Non-Hispanic Black	Hispanic	Chinese- American
N	2,559	1,835	1,477	792
Age, years	62 (10)	62 (10)	61 (10)	62 (10)
Women, N (%)	1,337 (52)	1,010 (55)	762 (52)	408 (52)
Height, cm	169 (10)	168 (10)	162 (9)	162 (9)
Weight, kg	79 (17)	85 (17)	77 (15)	63 (11)
Systolic BP, mmHg	123 (20)	132 (22)	127 (22)	124 (22)
Diastolic BP, mmHg	70 (10)	75 (10)	72 (10)	72 (10)
Current smoking, N (%)	296 (12)	327 (18)	202 (14)	45 (6)
Use of antihypertensive medication, N (%)	839 (33)	915 (50)	478 (32)	225 (28)
Diabetes, N (%)	151 (6)	321 (17)	259 (18)	102 (13)
PR interval, ms	164 (25)	171 (27)	162 (22)	165 (22)
NT-proBNP, pg/mL	110 (146)	92 (198)	111 (428)	74 (109)
hsCRP, mg/L	3.4 (5.1)	4.8 (7.0)	4.2 (5.6)	1.9 (4.8)

Values correspond to mean (standard deviation) or N (%). BP: blood pressure; hsCRP: high-sensitivity C-reactive protein. NT-proBNP: N-terminal of the pro-hormone B-type natriuretic peptide.

Table S3. Reclassification tables adding biomarker information to the simple CHARGE-AF model, MESA 2000-2012. Cells highlighted in green correspond to correct reclassification, while those in red represent incorrect reclassification.

Reclassification table based on NT-proBNP				
<i>Participants who did not develop AF</i>				
	With BNP			
Without BNP	<2.5%	2.5-5.0%	>5.0%	Total
<2.5%	3303	141	4	3448
2.5-5.0%	346	530	102	978
>5.0%	23	229	684	936
Total	3672	900	790	5362
<i>Participants who developed AF</i>				
	With BNP			
Without BNP	<2.5%	2.5-5.0%	>5.0%	Total
<2.5%	16	5	1	22
2.5-5.0%	7	16	7	30
>5.0%	0	8	55	63
Total	23	29	63	115
Reclassification table based on hsCRP				
<i>Participants who did not develop AF</i>				
	With hsCRP			
Without hsCRP	<2.5%	2.5-5.0%	>5.0%	Total
<2.5%	3373	75	0	3448
2.5-5.0%	85	835	58	978
>5.0%	0	92	844	936
Total	3458	1002	902	5362
<i>Participants who developed AF</i>				
	With hsCRP			
Without hsCRP	<2.5%	2.5-5.0%	>5.0%	Total
<2.5%	22	0	0	22
2.5-5.0%	4	23	3	30
>5.0%	0	4	59	63
Total	26	27	62	115
Reclassification table based on both NT-proBNP and hsCRP				
<i>Participants who did not develop AF</i>				
	With NT-proBNP and hsCRP			
Without NT-proBNP and hsCRP	<2.5%	2.5-5.0%	>5.0%	Total
<2.5%	3294	149	5	3448
2.5-5.0%	368	510	100	978
>5.0%	27	243	666	936
Total	3689	902	771	5362
<i>Participants who developed AF</i>				
	With NT-proBNP and hsCRP			
Without NT-proBNP and hsCRP	<2.5%	2.5-5.0%	>5.0%	Total
<2.5%	16	5	1	22
2.5-5.0%	8	14	8	30
>5.0%	1	8	54	63
Total	25	27	63	115

Figure S1. Mean predicted and observed 10-year risk of atrial fibrillation by deciles of predicted risk derived from Framingham model separately for whites and non-whites, Multi-Ethnic Study of Atherosclerosis, 2000-2012

