SUPPLEMENTAL MATERIAL

Metabolic Syndrome and Risk of Ischemic Stroke in Atrial Fibrillation: Atherosclerosis Risk In Communities (ARIC) Study

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Supplemental Table I. Association of Metabolic Syndrome Components with Embolic Stroke in Participants with Atrial Fibrillation, Atherosclerosis Risk in Communities (ARIC) Study

Individual variables	Absent	HR (95% CI), **Model 1**	P-value	HR (95% CI), **Model 2**	P-Value	HR (95% CI), **Model 3**	P-Value
High Waist Circumference	1 (Ref)	0.98 (0.55-1.72)	0.93	0.92 (0.52-1.65)	0.79	0.90 (0.50-1.61)	0.72
High Triglycerides	1 (Ref)	1.46 (0.87-2.45)	0.16	1.43 (0.83-2.45)	0.19	1.40 (0.82-2.38)	0.22
Low HDL	1 (Ref)	1.67 (0.97-2.87)	0.06	1.60 (0.92-2.78)	0.10	1.61 (0.93-2.81)	0.09
Elevated BP	1 (Ref)	1.31 (0.66-2.62)	0.44	1.32 (0.65-2.69)*	0.44	1.24 (0.62-2.52)*	0.54
Elevated fasting plasma glucose	1 (Ref)	1.19 (0.68-2.08)	0.55	1.14 (0.64-2.02)**	0.65	1.14 (0.64-2.00)**	0.66

Model 1: Cox proportional hazards model adjusted for age, sex, race/center
Model 2: Cox proportional hazards model adjusted for age, sex, race/center and the remaining CHA_2DS_2-VASc variables of stroke/transient ischemic attack, heart failure, hypertension, diabetes, myocardial infarction, peripheral artery disease and also anticoagulation use.
Model 3: Cox proportional hazards model adjusted for age, sex, race/center and the remaining $CHADS_2$ variables of stroke/transient ischemic attack, heart failure, hypertension, diabetes and also anticoagulation use.

Ref indicates reference and HDL, High-density lipoprotein.
Ref for prehypertension includes participants without prehypertension or HTN
Ref for prediabetes includes participants without prediabetes or diabetes

- *Not adjusted for hypertension
- **Not adjusted for diabetes

Supplemental Table II. Association of Metabolic Syndrome Components with Ischemic Stroke in Participants with Atrial Fibrillation, Atherosclerosis Risk in Communities (ARIC) Study, Sensitivity Analysis Fitting Fine-Gray Model

Individual variables	Absent	HR (95% CI), **Model 1**	P-Value	HR (95% CI), **Model 2**	P-Value
High Waist Circumference	1 (Ref)	0.87 (0.58-1.31)	0.50	0.86 (0.57-1.29)	0.47
High Triglycerides	1 (Ref)	1.20 (0.81-1.78)	0.35	1.17 (0.79-1.73)	0.42
Low HDL	1 (Ref)	1.44 (0.97-2.15)	0.07	1.44 (0.96-2.15)	0.08
Elevated BP	1 (Ref)	1.27 (0.77-2.08)*	0.35	1.22 (0.75-2.00)*	0.42
Elevated fasting plasma glucose	1 (Ref)	1.09 (0.72-1.63)**	0.69	1.07 (0.72-1.61)**	0.73

Model 1: Cox proportional hazards model adjusted for age, sex, race/center and the remaining CHA_2DS_2-VASc variables of stroke/transient ischemic attack, heart failure, hypertension, diabetes, myocardial infarction, peripheral artery disease and also anticoagulation use.
Model 2: Cox proportional hazards model adjusted for age, sex, race/center and the remaining $CHADS_2$ variables of stroke/transient ischemic attack, heart failure, hypertension, diabetes and also anticoagulation use.

Ref indicates reference and HDL, High-density lipoprotein.
Ref for prehypertension includes participants without prehypertension or HTN
Ref for prediabetes includes participants without prediabetes or diabetes

- *Not adjusted for hypertension
- **Not adjusted for diabetes

Supplemental Table III. Association of HDL (Modeled as a Continuous Variable) with Ischemic Stroke in Participants with Atrial Fibrillation, Atherosclerosis Risk in Communities (ARIC) Study

Individual variables	Absent	HR (95% CI), **Model 1**	P-value	HR (95% CI), **Model 2**	P-Value	HR (95% CI), **Model 3**	P-Value
HDL (per 1 SD increase)	1 (Ref)	0.91 (0.76-1.11)	0.35	0.95 (0.78-1.15)	0.61	0.95 (0.79-1.16)	0.63

Model 1: Cox proportional hazards model adjusted for age, sex, race/center
Model 2: Cox proportional hazards model adjusted for age, sex, race/center and the remaining CHA_2DS_2-VASc variables of stroke/transient ischemic attack, heart failure, hypertension, diabetes, myocardial infarction, peripheral artery disease and also anticoagulation use.
Model 3: Cox proportional hazards model adjusted for age, sex, race/center and the remaining $CHADS_2$ variables of stroke/transient ischemic attack, heart failure, hypertension, diabetes and also anticoagulation use.

Ref indicates reference and HDL, High-density lipoprotein.
Ref for prehypertension includes participants without prehypertension or HTN
Ref for prediabetes includes participants without prediabetes or diabetes

- *Not adjusted for hypertension
- **Not adjusted for diabetes