

## Supplementary Materials:

**Supplementary Table S1. Associations between risk factors and 13-risk of incident AF. Cox-regression analysis, age- and multivariable-adjusted models (The HAPIEE study, Russian population cohort free from baseline CVD, n=3871).**

Risk Factors	Model 1	Model 2	Model 3
	HR (95% CI)	HR (95% CI)	HR (95% CI)
Age, per 1 year	<b>1.10 (1.07-1.13)</b>	<b>1.09 (1.06-1.12)</b>	<b>1.10 (1.07-1.14)</b>
Sex: male vs. female	<b>1.95 (1.36-2.79)</b>	<b>2.02 (1.17-3.47)</b>	<b>2.20 (1.26-3.87)</b>
Heart rate, per 1 b / min	1.00 (0.98-1.02)	0.99 (0.98-1.01)	
BMI, per 1 kg/m <sup>2</sup>	<b>1.10 (1.07-1.14)</b>	<b>1.10 (1.06-1.15)</b>	<b>1.11 (1.07-1.15)</b>
SBP, per 1 mmHg	<b>1.02 (1.01-1.02)</b>	<b>1.02 (1.01-1.02)</b>	
DBP, per 1 mmHg	<b>1.03 (1.01-1.04)</b>		
TC, per 1 mmol/L	<b>0.81 (0.69-0.95)</b>	<b>0.79 (0.66-0.95)</b>	<b>0.79 (0.67-0.94)</b>
LDLC, per 1 mmol/L	<b>0.79 (0.66-0.94)</b>		
HDLC, per 1 mmol/L	0.78 (0.45-1.35)		
TG, per 1 mmol/L	0.97 (0.76-1.23)		
Glucose, per 1 mmol/L	0.91 (0.76-1.09)		
GGTP, per 1 U/L	1.00 (1.00-1.01)		
HT, yes vs. no	<b>1.75 (1.15-2.65)</b>		1.50 (0.97-2.33)
DM, yes vs. no	0.94 (0.49-1.79)		0.83 (0.43-1.6)
Alcohol, per 20 g per drinking occasion	1.22 (1.02-1.22)	1.00 (1.00-1.01)	1.0 (1.00-1.01)
<i>Smoking status:</i>			
- former smoker vs. never	1.20 (0.68-2.11)	1.21 (0.68-2.14)	1.18 (0.66-2.09)
-current smoker vs. never	1.18 (0.71-1.98)	1.39 (0.81-2.40)	1.14 (0.80-2.35)
<i>Level of education:</i>			
- other vs. higher	1.18 (0.80-1.73)		1.14 (0.76-1.70)
<i>Marital status:</i>			
- single vs. married	1.18 (0.77-1.81)		1.15 (0.73-1.79)

HR - hazard ratio, CI - confidence interval. Model 1: age- and sex- adjusted; Model 2: adjusted for age, sex, BMI, SBP, TC, TG, smoking, alcohol consumptions. Model 3: for age, sex, BMI, TC, HT, DM, smoking, alcohol consumptions, education and marital status

**Supplementary Table S2. Associations between risk factors and 13-risk of incident AF. Cox-regression analysis, age- and multivariable-adjusted models (The HAPIEE study, Russian population cohort, n=5759).**

Risk Factors	Model 1	Model 2	Model 3
	HR (95% CI)	HR (95% CI)	HR (95% CI)
Age, per 1 year	1.09 (1.06-1.12)	1.09 (1.06-1.12)	1.10 (1.07-1.14)
Sex: male vs. female	1.96 (1.37-2.79)	1.94 (1.18-3.18)	2.20 (1.25-3.85)
CVD at baseline	2.48 (1.74-3.38)	2.22 (1.57-3.34)	2.25 (1.59-3.17)
Heart rate, per 1 b / min	1.00 (0.98-1.01)	0.99 (0.97-1.01)	
BMI, per 1 kg/m <sup>2</sup>	1.10 (1.06-1.14)	1.09 (1.05-1.13)	1.10 (1.07-1.14)
SBP, per 1 mmHg	1.02 (1.01-1.02)	1.02 (1.01-1.02)	
DBP, per 1 mmHg	1.03 (1.02-1.04)		
TC, per 1 mmol/L	0.80 (0.68-0.94)	0.76 (0.64-0.90)	0.77 (0.65-0.91)
LDLC, per 1 mmol/L	0.78 (0.65-0.93)		
HDLC, per 1 mmol/L	0.87 (0.51-1.49)		
TG, per 1 mmol/L	0.96 (0.76-1.23)		
Glucose, per 1 mmol/L	0.90 (0.73-1.08)		
GGTP, per 1 U/L	1.00 (1.00-1.01)		
HT, yes vs. no	1.73 (1.14-2.62)		1.47 (0.95-2.27)
DM, yes vs. no	1.12 (0.60-2.35)		1.34 (0.67-2.27)
Alcohol, per 20 g per drinking occasion	1.08 (0.98-1.20)	1.06 (0.96-1.17)	1.04 (0.94-1.15)
<i>Smoking status:</i>			
- former smoker vs. never	1.20 (0.68-2.11)	1.21 (0.68-2.12)	1.17 (0.66-2.10)
-current smoker vs. never	1.15 (0.69-1.93)	1.35 (0.79-2.31)	1.13 (0.77-2.30)
<i>Level of education:</i>			
- other vs. higher	1.17 (0.80-1.72)		1.13 (0.76-1.70)
<i>Marital status:</i>			
- single vs. married	1.17 (0.77-1.83)		1.16 (0.74-1.81)

HR - hazard ratio, CI - confidence interval. Model 1: age- and sex- adjusted; Model 2: adjusted for age, sex, BMI, SBP, TC, TG, smoking, alcohol consumptions, baseline CVD. Model 3: for age, sex, BMI, TC, HT, DM, smoking, alcohol consumptions, education and marital status, baseline CVD