

Supplementary

		Sudden Death Risk			
		Low	High	Total	
Smoking habit	No	Count	749 _a	19 _a	768
		% within Smoking habit	97,5%	2,5%	100,0%
		% within Sudden Death Risk	56,1%	57,6%	56,1%
		% of the total	54,8%	1,4%	56,1%
Current		Count	339 _a	10 _a	349
		% within Smoking habit	97,1%	2,9%	100,0%
		% within Sudden Death Risk	25,4%	30,3%	25,5%
		% of the total	24,8%	0,7%	25,5%
Former		Count	247 _a	4 _a	251
		% within Smoking habit	98,4%	1,6%	100,0%
		% within Sudden Death Risk	18,5%	12,1%	18,3%
		% of the total	18,1%	0,3%	18,3%
Total		Count	1335	33	1368
		% within Smoking habit	97,6%	2,4%	100,0%
		% within Sudden Death Risk	100,0%	100,0%	100,0%
		% of the total	97,6%	2,4%	100,0%

Table S1. Contingency table about smoking habit in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Sudden Death Risk			
		Low	High	Total	
Snoring	Yes	Count	559 ^a	13 ^a	572
		% within Snoring	97,7%	2,3%	100,0%
		% within Sudden Death Risk	41,6%	39,4%	41,6%
		% of the total	40,6%	0,9%	41,6%
No		Count	536 ^a	16 ^a	552
		% within Snoring	97,1%	2,9%	100,0%
		% within Sudden Death Risk	39,9%	48,5%	40,1%
		% of the total	39,0%	1,2%	40,1%
Don't know		Count	248 ^a	4 ^a	252
		% within Snoring	98,4%	1,6%	100,0%
		% within Sudden Death Risk	18,5%	12,1%	18,3%
		% of the total	18,0%	0,3%	18,3%
Total		Count	1343	33	1376
		% within Snoring	97,6%	2,4%	100,0%
		% within Sudden Death Risk	100,0%	100,0%	100,0%
		% of the total	97,6%	2,4%	100,0%

Table S2. Contingency table about snoring in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Sudden Death Risk			
		Low	High	Total	
Sleep apnoea	Yes	Count	967a	26a	993
		% within Sleep apnoea	97,4%	2,6%	100,0%
		% within Sudden Death Risk	74,4%	81,3%	74,6%
		% of the total	72,7%	2,0%	74,6%
No	No	Count	83a	1a	84
		% within Sleep apnoea	98,8%	1,2%	100,0%
		% in Sudden Death Risk	6,4%	3,1%	6,3%
		% of the total	6,2%	0,1%	6,3%
Don't know	Don't know	Count	249a	5a	254
		% within Sleep apnoea	98,0%	2,0%	100,0%
		% in Sudden Death Risk	19,2%	15,6%	19,1%
		% of the total	18,7%	0,4%	19,1%
Total	Total	Count	1299	32	1331
		% within Sleep apnoea	97,6%	2,4%	100,0%
		% in Sudden Death Risk	100,0%	100,0%	100,0%
		% of the total	97,6%	2,4%	100,0%

Table S3. Contingency table about sleep apnoea in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Sudden Death Risk			
		Low	High	Total	
MACE_TOT	No	Count	1260a	29a	1289
		% in MACE_TOT	97,8%	2,2%	100,0%
		% within Sudden Death Risk	93,8%	87,9%	93,7%
		% of the del total	91,6%	2,1%	93,7%

Yes	Count	83a	4a	87
	% in MACE_TOT	95,4%	4,6%	100,0%
	% within Sudden Death Risk	6,2%	12,1%	6,3%
	% of the del total	6,0%	0,3%	6,3%
Total	Count	1343	33	1376
	% in MACE_TOT	97,6%	2,4%	100,0%
	% within Sudden Death Risk	100,0%	100,0%	100,0%
	% of the del total	97,6%	2,4%	100,0%

Table S4. Contingency table about Total Major Adverse Cardiovascular Events (MACE_TOT) in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Sudden Death Risk			
		Low	High	Total	
ANTIHL	No	Count	1064a	22a	1086
		% within ANTIHL	98,0%	2,0%	100,0%
		% within Sudden Death Risk	82,2%	68,8%	81,8%
		% of the total	80,2%	1,7%	81,8%
	Yes	Count	231a	10a	241
		% within ANTIHL	95,9%	4,1%	100,0%
		% within Sudden Death Risk	17,8%	31,3%	18,2%
		% of the total	17,4%	0,8%	18,2%
Total	Count	1295	32	1327	
	% within ANTIHL	97,6%	2,4%	100,0%	
	% within Sudden Death Risk	100,0%	100,0%	100,0%	
	% of the total	97,6%	2,4%	100,0%	

Table S5. Contingency table about hypolipidemic drugs use (ANTIHL) in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Sudden Death Risk			
		Low	High	Total	
FAMHPT	No	Count	625a	18a	643
		% within FAMHPT	97,2%	2,8%	100,0%
		% within Sudden Death Risk	46,5%	54,5%	46,7%
		% of the total	45,4%	1,3%	46,7%
	Yes	Count	718a	15a	733
		% within FAMHPT	98,0%	2,0%	100,0%
		% within Sudden Death Risk	53,5%	45,5%	53,3%
		% of the total	52,2%	1,1%	53,3%
	Total	Count	1343	33	1376
		% within FAMHPT	97,6%	2,4%	100,0%
		% within Sudden Death Risk	100,0%	100,0%	100,0%
		% of the total	97,6%	2,4%	100,0%

Table S6. Contingency table about familiarity with hypertension (FAMHPT) in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Sudden Death Risk			
		Low	High	Total	
FAMHLP	No	Count	750a	24a	774
		% within FAMHLP	96,9%	3,1%	100,0%
		% within Sudden Death Risk	56,9%	72,7%	57,3%
		% of the total	55,6%	1,8%	57,3%
	1	Count	567a	9a	576
		% within FAMHLP	98,4%	1,6%	100,0%
		% within Sudden Death Risk	43,1%	27,3%	42,7%
		% of the total	42,0%	0,7%	42,7%

Total	Count	1317	33	1350
	% within FAMHLP	97,6%	2,4%	100,0%
	% within Sudden Death Risk	100,0%	100,0%	100,0%
	% of the total	97,6%	2,4%	100,0%

Table S7. Contingency table about familiarity with dyslipidemias (FAMHLP) in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Sudden Death Risk			
		Low	High	Total	
FAMDM	No	Count	987a	29a	1016
		% within FAMDM	97,1%	2,9%	100,0%
		% within Sudden Death Risk	73,5%	87,9%	73,8%
		% of the total	71,7%	2,1%	73,8%
	Yes	Count	356a	4a	360
		% within FAMDM	98,9%	1,1%	100,0%
		% within Sudden Death Risk	26,5%	12,1%	26,2%
		% of the total	25,9%	0,3%	26,2%
Total	Count	1343	33	1376	
	% within FAMDM	97,6%	2,4%	100,0%	
	% within Sudden Death Risk	100,0%	100,0%	100,0%	
	% of the total	97,6%	2,4%	100,0%	

Table S8. Contingency table about familiarity with Diabetes (FAMDM) in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Sudden Death Risk			
		Low	High	Total	
FAMCAD	No	Count	975a	24a	999

	% within FAMCAD	97,6%	2,4%	100,0%
	% in Sudden Death Risk	72,6%	72,7%	72,6%
	% of the total	70,9%	1,7%	72,6%
Yes	Count	368a	9a	377
	% within FAMCAD	97,6%	2,4%	100,0%
	% in Sudden Death Risk	27,4%	27,3%	27,4%
	% of the total	26,7%	0,7%	27,4%
Total	Count	1343	33	1376
	% within FAMCAD	97,6%	2,4%	100,0%
	% in Sudden Death Risk	100,0%	100,0%	100,0%
	% of the total	97,6%	2,4%	100,0%

Table S9. Contingency table about familiarity with Coronary Artery Disease (FAMCAD) in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Sudden Death Risk			
		Low	High	Total	
FAMCVD	No	Count	1093a	29a	1122
		% within FAMCVD	97,4%	2,6%	100,0%
		% within Sudden Death Risk	81,4%	87,9%	81,5%
		% of the total	79,4%	2,1%	81,5%
	Yes	Count	250a	4a	254
		% within FAMCVD	98,4%	1,6%	100,0%
		% within Sudden Death Risk	18,6%	12,1%	18,5%
		% of the total	18,2%	0,3%	18,5%
Total	Count	1343	33	1376	
	% within FAMCVD	97,6%	2,4%	100,0%	
	% within Sudden Death Risk	100,0%	100,0%	100,0%	
	% of the total	97,6%	2,4%	100,0%	

Table S10. Contingency table about familiarity with Cardiovascular Disease (FAMCVD) in the Brisighella Heart Study Survey (2016) subpopulations, according to the ECG risk score.

		Point	df	Sign.	
Phase 1	Variables	Age (years)	4,900	1	,027
		Smoking habit	,976	2	,614
		Smoking habit(1)	,923	1	,337
		Smoking habit(2)	,701	1	,402
		Snoring	,865	2	,649
		Snoring(1)	,382	1	,536
		Snoring(2)	,008	1	,929
		Sleep apnoea	1,679	2	,432
		Sleep apnoea(1)	1,572	1	,210
		Sleep apnoea(2)	,726	1	,394
		MACE_TOT_12(1)	1,466	1	,226
		ANTIHPT_12(1)	1,717	1	,190
		ANTIHLP_12(1)	1,093	1	,296
		ANTIDM_12(1)	,239	1	,625
		FANS_12(1)	7,471	1	,006
		FAMHPT_12(1)	,370	1	,543
		FAMHLP_12(1)	,868	1	,352
		FAMDM_12(1)	,546	1	,460
		FAMCAD_12(1)	,026	1	,872
		FAMCVD_12(1)	1,297	1	,255
		Waist circumference (cm)	,029	1	,864
		Body Mass Index (kg/m ²)	,457	1	,499
		Heart rate (bpm)	4,288	1	,038
		SBP (mmHg)	1,497	1	,221
		DBP (mmHg)	2,867	1	,090
		PP (mmHg)	,353	1	,552
		Aortic BP (mmHg)	1,288	1	,256

		Aortic PP (mmHg)	,240	1	,624
		Augmentation Index	2,905	1	,088
		Cardiac Output	1,569	1	,210
		Stroke Volume	,026	1	,871
		cfPWV (m/s)	5,600	1	,018
		TG (mg/dL)	,017	1	,898
		HDL-C (mg/dL)	,342	1	,559
		LDL-C (mg/dL)	,420	1	,517
		FPG (mg/dL)	,275	1	,600
		ApoB (mg/dL)	,025	1	,874
		AST_12	,016	1	,899
		ALT_12	,146	1	,702
		CPK_12	,005	1	,942
		GGT_12	,009	1	,925
		Lp(a) (mg/dL)	,189	1	,664
		VAI	,106	1	,745
		eGFR-CKD Epi (ml/min)	3,982	1	,046
		SUACR	2,004	1	,157
Phase 2	Variables	Age (years)	2,881	1	,090
		Smoking habit	,749	2	,688
		Smoking habit(1)	,634	1	,426
		Smoking habit(2)	,669	1	,413
		Snoring	,621	2	,733
		Snoring(1)	,256	1	,613
		Snoring(2)	,007	1	,933
		Sleep apnoea	1,302	2	,521
		Sleep apnoea(1)	1,171	1	,279
		Sleep apnoea(2)	,668	1	,414

MACE_TOT_12(1)	,963	1	,326
ANTIHTPT_12(1)	1,076	1	,300
ANTIHLPT_12(1)	,325	1	,569
ANTIDM_12(1)	,012	1	,913
FAMHPT_12(1)	,634	1	,426
FAMHLP_12(1)	,583	1	,445
FAMDM_12(1)	,230	1	,631
FAMCAD_12(1)	,023	1	,880
FAMCVD_12(1)	,874	1	,350
Waist circumference (cm)	,030	1	,862
Body Mass Index (kg/m2)	,402	1	,526
Hear rate (bpm)	5,028	1	,025
SBP (mmHg)	,741	1	,389
DBP (mmHg)	3,026	1	,082
PP (mmHg)	,029	1	,865
Aortic BP (mmHg)	,576	1	,448
Aortic PP (mmHg)	,002	1	,961
Augmentation Index	4,867	1	,027
Cardiac Output	,740	1	,390
Stroke Volume	,054	1	,816
cfPWV (m/s)	3,891	1	,049
TG (mg/dL)	,039	1	,843
HDL-C (mg/dL)	,156	1	,693
LDL-C (mg/dL)	,137	1	,711
FPG (mg/dL)	,076	1	,783
ApoB (mg/dL)	,001	1	,976
AST_12	,011	1	,917
ALT_12	,137	1	,711

		CPK_12	,000	1	,993
		GGT_12	,011	1	,918
		Lp(a) (mg/dL)	,344	1	,558
		VAI	,030	1	,862
		eGFR-CKD Epi (ml/min)	2,880	1	,090
		SUACR	1,835	1	,175
Phase 3	Variables	Age (years)	3,858	1	,050
		Smoking habit	,748	2	,688
		Smoking habit(1)	,678	1	,410
		Smoking habit(2)	,600	1	,439
		Snoring	,508	2	,776
		Snoring(1)	,104	1	,747
		Snoring(2)	,054	1	,817
		Sleep apnoea	1,900	2	,387
		Sleep apnoea(1)	1,618	1	,203
		Sleep apnoea(2)	1,242	1	,265
		MACE_TOT_12(1)	2,399	1	,121
		ANTIHPT_12(1)	1,645	1	,200
		ANTIHLP_12(1)	,349	1	,555
		ANTIDM_12(1)	,067	1	,796
		FAMHPT_12(1)	,559	1	,455
		FAMHLP_12(1)	,655	1	,418
		FAMDM_12(1)	,306	1	,580
		FAMCAD_12(1)	,122	1	,727
		FAMCVD_12(1)	,961	1	,327
		Waist circumference (cm)	,133	1	,715
		Body Mass Index (kg/m2)	,540	1	,462
		SBP (mmHg)	,907	1	,341

		DBP (mmHg)	2,024	1	,155
		PP (mmHg)	,179	1	,672
		Aortic BP (mmHg)	,833	1	,361
		Aortic PP (mmHg)	,137	1	,712
		Augmentation Index	3,798	1	,051
		Cardiac Output	,283	1	,595
		Stroke Volume	,193	1	,660
		cfPWV (m/s)	4,597	1	,032
		TG (mg/dL)	,016	1	,899
		HDL-C (mg/dL)	,099	1	,753
		LDL-C (mg/dL)	,354	1	,552
		FPG (mg/dL)	,021	1	,885
		ApoB (mg/dL)	,076	1	,783
		AST_12	,007	1	,931
		ALT_12	,289	1	,591
		CPK_12	,020	1	,888
		GGT_12	,011	1	,917
		Lp(a) (mg/dL)	,221	1	,639
		VAI	,018	1	,892
		eGFR-CKD Epi (ml/min)	3,806	1	,051
		SUACR	2,015	1	,156
Phase 4	Variables	Age (years)	2,127	1	,145
		Smoking habit	1,040	2	,595
		Smoking habit(1)	,778	1	,378
		Smoking habit(2)	1,008	1	,315
		Snoring	,283	2	,868
		Snoring(1)	,004	1	,952
		Snoring(2)	,105	1	,746

Sleep apnoea	1,410	2	,494
Sleep apnoea(1)	1,081	1	,298
Sleep apnoea(2)	1,034	1	,309
MACE_TOT_12(1)	2,487	1	,115
ANTIHPT_12(1)	1,163	1	,281
ANTIHLP_12(1)	,052	1	,820
ANTIDM_12(1)	,047	1	,828
FAMHPT_12(1)	,748	1	,387
FAMHLP_12(1)	,235	1	,628
FAMDM_12(1)	,130	1	,718
FAMCAD_12(1)	,093	1	,760
FAMCVD_12(1)	,858	1	,354
Waist circumference (cm)	,010	1	,919
Body Mass Index (kg/m2)	,201	1	,654
SBP (mmHg)	,062	1	,803
DBP (mmHg)	1,215	1	,270
PP (mmHg)	,072	1	,789
Aortic BP (mmHg)	,038	1	,846
Aortic PP (mmHg)	,120	1	,729
Augmentation Index	5,044	1	,025
Cardiac Output	,023	1	,879
Stroke Volume	,044	1	,833
TG (mg/dL)	,011	1	,918
HDL-C (mg/dL)	,081	1	,776
LDL-C (mg/dL)	,326	1	,568
FPG (mg/dL)	,027	1	,869
ApoB (mg/dL)	,135	1	,713
AST_12	,022	1	,883

ALT_12	,223	1	,637
CPK_12	,053	1	,819
GGT_12	,010	1	,919
Lp(a) (mg/dL)	,227	1	,634
VAI	,029	1	,864
eGFR-CKD Epi (ml/min)	2,930	1	,087
SUACR	2,008	1	,156

Table S11. Excluded variables in multiple regression.