Supplementary Materials

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Cha	racteristics	Non-stroke	Stroke (n=13)	P-value
		(n=322)		
Clinical	Female [n (%)]	151 (46.9)	7 (53.80)	0.835
features	Age (years %)	56.05	66.23	0.028^{*}
Teatures	BMI (kg/m ² %)	24.52	24.89	0.707
	Tobacco use [n (%)]	42 (13.2)	3 (23.1)	0.397
	DM [n (%)]	39 (12.2)	2 (15.4)	0.667
Questionnaire	CVD Hx [n (%)]	74 (23.0)	10 (76.9)	< 0.001*
Questionnaire	Known AF [n (%)]	14 (4.3)	3 (23.1)	0.002^{*}
	HTN Hx [n (%)]	172 (53.4)	7 (53.8)	0.787
	Dyslipidemia Hx (%)	39 (12.1)	5 (38.5)	0.018^{*}
Biochemical	LDL (mg/dL)	97.72	91.50	0.611
data	Total cholesterol	169.48	154.85	0.296
	(mg/dL)			

Table S1. General characteristics of the study population analyzed by the stroke morbidity

General characteristics of the study population analyzed by the stroke morbidity.

BMI, body mass index; DM, diabetes mellitus; CVD Hx, cardiovascular disease history (ACS, HF & stroke); AF, atrial fibrillation; HTN Hx, hypertension history; Hx, history; LDL, low density lipoprotein. *Statistical significance (P<0.05) of the difference between the two groups.

Cha	aracteristics	Non-ACS	ACS (n=12)	P-value
		(n=323)		
Clinical	Female [n (%)]	154 (47.7)	4 (33.3)	0.495
features	Age (years %)	56.24	62.08	0.226
reatures	BMI (kg/m ² %)	24.56±3.48	23.77±3.48	0.437
	Tobacco use [n (%)]	43 (13.4)	2 (16.7)	0.670
	DM [n (%)]	38 (11.9)	3 (25.0)	0.174
Questionnaire	CVD Hx [n (%)]	76 (23.5)	8 (66.7)	0.002^{*}
Questionnare	Known AF [n (%)]	15 (4.6)	2 (16.7)	0.062
	HTN Hx [n (%)]	172 (53.5)	9 (75.0)	0.234
	Dyslipidemia Hx (%)	42 (13)	2 (16.7)	0.662
Biochemical data	LDL (mg/dL)	97.82	85.62	0.411
	Total cholesterol (mg/dL)	168	165	0.810

Table S2. General characteristics of the study population analyzed by the ACS morbidity

General characteristics of the study population analyzed by the ACS morbidity.

BMI, body mass index; DM, diabetes mellitus; CVD Hx, cardiovascular disease history (ACS, HF & stroke); AF, atrial fibrillation; HTN Hx, hypertension history; Hx, history; LDL, low density lipoprotein.

*Statistical significance (P<0.05) of the difference between the two groups.

		Non-HF			
Cha	aracteristics	(n=329)	HF (n=6)	P-value	
	Female [n (%)]	157 (47.7)	1 (16.7)	0.219	
Clinical	Age (years %)	56.40	58.67	0.739	
leatures	BMI (kg/m ² %)	24.54	24.46	0.956	
	Tobacco use [n (%)]	44 (13.5)	1 (16.7)	0.586	
	DM [n (%)]	40 (12.3)	1 (16.7)	0.549	
Questionnaire	CVD Hx [n (%)]	79 (24.0)	5 (83.3)	0.004^{*}	
Questionnaire	Known AF [n (%)]	15 (4.6)	2 (33.3)	0.001*	
	HTN Hx [n (%)]	177 (53.8)	4 (66.7)	0.691	
	Dyslipidemia Hx (%)	44 (13.4)	0 (0.0)	1.000	
D' 1 ' 1	LDL (mg/dL)	97.29	106.5	0.658	
Biochemical data	Total cholesterol	168.76	170.60	0.934	
	(mg/dL)				

Table S3. General characteristics of the study population analyzed by the heart failure morbidity

General characteristics of the study population analyzed by the heart failure morbidity.

BMI, body mass index; DM, diabetes mellitus; CVD Hx, cardiovascular disease history (ACS, HF & stroke), AF, atrial fibrillation; HTN Hx, hypertension history; Hx, history; LDL, low density lipoprotein.

*Statistical significance (P<0.05) of the difference between the two groups.

		Unadjusted	1	Adjusted*	
Variable of 24 hr AMBP		OP (05% CI)	P-	OP (05% CI)	P-
		OK (95% CI)	value	OK (95% CI)	value
		0.983		0.977	
24 hr PD	Mean sBP (mmHg)	(0.940–1.027)	0.439	(0.936–1.019)	0.284
24 III DI		0.974	0.000	0.969	0.041
	Mean dBP (mmHg)	(0.925–1.024)	0.302	(0.920-1.021)	0.241
		0.977		0.970	
	Mean sBP (mmHg)	(0.933-1.022)	0.309	(0.927–1.015)	0.195
	Mean dBP (mmHg)	0.947	0.1.66	0.942	0.1.12
Day BP		(0.877–1.023)	0.166	(0.869–1.020)	0.143
	Systolic load (%)	0.995	0.654	0.994	0.588
		(0.971–1.018)		(0.970–1.017)	
		0.984	0.206	0.981	0.264
	Diastone load (%)	(0.953–1.015)	0.306	(0.949–1.014)	
		0.993		0.984	
	Mean sBP (mmHg)	(0.955–1.033)	0.732	(0.947–1.023)	0.429
		0.996	0.902	0.990	0.692
	Mean dBP (mmHg)	(0.945–1.051)	0.892	(0.945–1.038)	0.683
Night BP	Sustalia load (0/)	0.998	0 000	0.994	0.538
	Systeme road (%)	(0.982–1.015)	0.808	(0.974–1.014)	
	$D_{1}^{2} = (-1)^{2} = 1 = -1 (0/2)^{2}$	1.001	0.025	0.996	0.692
	Diastone load (%)	(0.981–1.021)	0.935	(0.976–1.016)	0.082
	Dipper	0.420	0.226	0.496	0.345

Table S4. OR and 95% CI of the ACS incidence according to the parameters of the 24-hour AMBP in

 people without atrial fibrillation

OR and 95% CI of the ACS incidence according to the parameters of the 24-hour AMBP in people without atrial fibrillation.

The variables are presented as the OR (95% CI). The ORs and 95% CI were estimated by a

multivariate logistic regression analysis.

OR, odds ratio; ACS, acute coronary syndrome; sBP, systolic blood pressure; dBP, diastolic blood pressure.

*The variables were adjusted for the sex, age, and known cardiovascular disease history.

Variable of 24 hr Holter		Unadjusted		Adjusted [†]		
		OR (95% CI)	P- value	OR (95% CI)	P-value	
	APC (%)	1.226	0.032 *	1.242	0.055	
Arrhythmia		1.150	0.040	0.052	1 0 2 5	
	PVC (%)	(1.007–1.314)	*	(0.999–1.319)	1.235	
	Average HR	0.982	0.5(2)	0.980	0.522	
Time domain	(beat/m)	(0.921–1.046)	0.563	(0.919–1.045)	0.533	
	Mean NN (ms)	1.002	0.338	1.002	0.050	
		(0.998–1.007)		(0.997–1.007)	0.558	
Time domain		0.993		0.999		
	SDNN (ms)	(0.977–1.011)	0.454	(0.981–1.017)	0.941	
		0.989		0.997		
	SDaNN (ms)	(0.971-1.009)	0.277	(0.978–1.017)	0.764	
		0.999	0.000	1.000	0.07.6	
	LF (ms)	(0.988–1.011)	0.900	(0.991-1.009)	0.976	
Heart rate	HF (ms)	0.999	0.895	1.000	0.997	
variability	- ()	(0.982–1.016)		(0.987–1.013)	0.771	
	L/H (ms)	0.959	0 958	0.917	0.913	
	L/H (ms)	(0.206-4.472)	0.958	(0.193-4.363)	0.913	

Table S5. OR and 95% CI of the ACS incidence according to the parameters of the 24-hour Holter

 examination in people without atrial fibrillation

OR and 95% CI of the ACS incidence according to the parameters of the 24-hour Holter examination in people without atrial fibrillation.

The variables are presented as the OR (95% CI). The ORs and 95% CI were estimated by a multivariate

logistic regression analysis.

OR, odds ratio; APC, atrial premature complexes; PVC, premature ventricular contraction; HR, heart rate; SDNN, SD of all NN intervals; SDaNN, SD of the averages of the NN intervals; LF, low frequency; HF, high frequency; L/H, LF/HF.

*Statistical significance (P<0.05) of the difference between the two groups.

[†]The variables were adjusted for the sex, age, and known cardiovascular disease history.

Variable of 24 hr AMBP		Unadjusted		Adjusted*		
v urruor	<u> </u>	OR (95% CI)	P-value	OR (95% CI)	P-value	
	Mean sBP 1.053		0.021	1.049	0.057	
041 DD	(mmHg)	(1.005–1.104)	0.031	(0.998–1.103)	0.057	
24 hr BP	Mean dBP	1.064	0.4.44	1.059	0.01.5	
	(mmHg)	(0.979–1.157)	0.141	(0.967–1.158)	0.215	
	Mean sBP	1.054	0.024	1.052	0.054	
	(mmHg)	(1.004–1.106)	0.034	(0.999–1.108)	0.034	
	Mean dBP	1.056	0.202	1.049	0.201	
Day BP	(mmHg)	(0.971–1.149)	0.205	(0.960-1.145)	0.291	
	Systolic load (%)	1.030	0.750	1.028	0.070	
		(0.997–1.063)	0.750	(0.997–1.060)	0.079	
		1.023	0.145	1.021	0.207	
	Diastolic load (%)	(0.992–1.055)	0.145	(0.988–1.055)	0.207	
	Mean sBP	1.040	0.069	1.035	0.138	
	(mmHg)	(0.997–1.085)	0.009	(0.989–1.084)	0.138	
	Mean dBP	1.077	0.070	1.066	0 100	
	(mmHg)	(0.991–1.169)	0.079	(0.969–1.173)		
	\mathbf{C}	1.003	0.422	1.001	0 702	
Night BP	Systone load (%)	(0.996-1.009)	0.425	(0.994–1.008)	0.792	
		1.012	0.471	1.005	0.7(0)	
	Diastolic load (%)	(0.980-1.045)	0.471	(0.973–1.037)	0.768	
	<u>.</u> .	0.860	0.001	1.200	0.072	
	Dipper	(0.120-6.183)	0.881	(0.151–9.532)	0.863	

Table S6. OR and 95% CI of the heart failure incidence according to the parameters of the 24-hourAMBP in people without atrial fibrillation

OR and 95% CI of the heart failure incidence according to the parameters of the 24-hour AMBP in people without atrial fibrillation. The variables are presented as the OR (95% CI). The ORs and 95% CI were estimated by a multivariate logistic regression analysis.

OR, odds ratio; BP, blood pressure; sBP, systolic blood pressure; dBP, diastolic blood pressure.

*The variables were adjusted for the sex, age, known cardiovascular disease history, and known atrial fibrillation history.

Variable of 24 hr Holter		Unadjusted		Adjusted*		
		OR (95% CI)	P-	OR (95% CI)	Р-	
			value		value	
Arrhythmia	APC (%)	0.000	0.997	0.000	0.996	
	PVC (%)	0.000	0.995	0.000	0.995	
	Average HR	1.005	0.908	0.998	0 971	
Time domain	(beat/m)	(0.917–1.102)	(0.909–1.09		0.971	
	Mean NN (ms)	1.000	0.905	1.001	0.855	
	Wean Wiv (ms)	(0.993-1.008)	0.905	(0.993-1.008)	0.855	
	SDNN (ms)	1.009	0.461	1.014	0.282	
	SDININ (IIIS)	(0.985–1.034)	0.401	(0.989–1.040)	0.282	
	SDoNN (ms)	1.007	0.627	1.013	0 370	
	SDarvi (IIIS)	(0.981–1.033)	0.027	(0.985–1.041)	0.570	
	IF(ms)	1.000	0 971	1.040	0 323	
		(0.988–1.012)	0.971	(0.962–1.125)	0.323	
Heart rate	UF (ms)	0.999	0.034	1.000	0.000	
variability	111 ⁺ (1115 <i>)</i>	(0.973-1.026)	0.754	(0.980-1.020)	0.999	
	I /H (ms)	2.513	0 395	1.669	0 6 4 4	
	L/H (ms)	(0.301–20.955)	0.393	(0.190–14.645)	0.044	

Table S7. OR and 95% CI of the heart failure incidence according to the parameters of the 24 hour

 Holter examination in people without atrial fibrillation

OR and 95% CI of the heart failure incidence according to the parameters of the 24-hour Holter examination in people without atrial fibrillation. The variables are presented as the OR (95% CI). The ORs and 95% CI were estimated by a multivariate logistic regression analysis.

OR, odds ratio; APC, atrial premature complexes; PVC, premature ventricular contraction; HR, hazard ratios; SDNN, SD of all NN intervals; SDaNN, SD of the averages of the NN intervals; LF, low frequency; HF, high frequency; L/H, LF/HF.

*The variables were adjusted for the sex, age, known cardiovascular disease history, and known atrial fibrillation history.

Variable of 24 hr AMBP		Unadjusted		Adjusted [†]		
	-	OR (95% CI)	P-value	OR (95% CI)	P-value	
	Mean sBP	1.019	0.120	1.005	0.000	
24 hr BP	(mmHg)	(0.994–1.045)	0.139	(0.979–1.032)	0.689	
	Mean dBP	1.003	0 879	1.002	0.090	
	(mmHg)	(0.962–1.046)	0.075	(0.956–1.051)	0.000	
	Mean sBP	1.016	0.222	1.003	0.806	
Day BP	(mmHg)	(0.990-1.042)	0.235	(0.976–1.031)	0.806	
	Mean dBP	0.988	0.613	0.990	0 695	
	(mmHg)	(0.944–1.035)	0.015	(0.941–1.041)	0.075	
	Systolic load (%)	1.006	0 458	1.002	0.779	
		(0.991–1.020)	0.120	(0.987–1.018)		
	Diastolic load (%)	0.996	0 640	0.996	0.704	
		(0.978–1.014)	0.010	(0.977–1.016)		
	Mean sBP	1.019	0.100	1.003	0.806	
	(mmHg)	(0.996–1.042)	0.100	(0.979–1.028)	0.800	
	Mean dBP	1.030	0 153	1.018	0.430	
	(mmHg)	(0.989–1.072)	0.122	(0.975–1.062)	01120	
Night BP	Systolic load (%)	1.002	0.410	1.000	0 929	
	Systeme roud (70)	(0.997–1.007)	0.410	(0.994–1.006)	0.747	
	Diastolic load (%)	1.010	0 169	1.004	0 595	
		(0.996–1.025)	0.107	(0.989–1.019)	0.575	
	Dipper	0.346	0.034*	0.476	0.175	

Table S8. OR and 95% CI of the cardiovascular disease incidence according to the parameters of the

 24-hour AMBP in people without atrial fibrillation

OR and 95% CI of the total cardiovascular disease incidence according to the parameters of the 24hour AMBP in people without atrial fibrillation.

The variables are presented as the OR (95% CI). The ORs and 95% CI were estimated by a

multivariate logistic regression analysis.

OR, odds ratio; BP, blood pressure; sBP, systolic blood pressure; dBP, diastolic blood pressure.

*Statistical significance (P<0.05) of the difference between the two groups.

[†]The variables were adjusted for the sex, age, known cardiovascular disease history, and known atrial fibrillation history.

		Unadjusted		Adjusted [*]	¢	
Variable of 24 hr Holter			P-		P-	
		OR (95% CI)	value	OR (95% CI)	value	
		1 120 (0 048 1 260)	0.162	1.168	0.107	
	APC (%)	1.159 (0.948–1.509)	0.105	(0.922–1.480)	0.197	
Arrhythmia				1.089		
	PVC (%)	1.089 (0.956–1.240)	0.200	(0.936-1.267)	0.269	
	Average HR			0.999		
	(beat/min)	0.995 (0.953-1.038)	0.809	(0.954 - 1.047)	0.979	
	Mean NN (ms)			1 001	0.754	
		1.001 (0.998–1.005)	0.494	1.001		
Time				(0.997–1.004)		
domain		0 991 (0 979–1 003)	0 155	0.999	0 870	
	SDIVI (IIIS)	0.991 (0.979 1.003)	0.155	(0.985–1.013)	0.070	
			0.074	0.998		
	SDaNN (ms)	0.988 (0.974–1.001)		(0.983-1.013)	0.755	
				1.011		
	LF (ms)	1.004 (0.995–1.013)	0.398	(0.062-1.062)	0.663	
				(0.902-1.003)		
Heart rate	HF (ms)	0.976 (0.901-1.057)	0.548	0.994	0.862	
variability				(0.927–1.065)		
		1 205 (0 454 - 2 504)	0.000	1.623	0.201	
	L/H (MS)	1.295 (0.454–3.694)	0.628	(0.549-4.797)	0.381	

Table S9. OR and 95% CI of the cardiovascular disease incidence according to the parameters of the

 24-hour Holter examination in people without atrial fibrillation

OR and 95% CI of the total cardiovascular disease incidence according to the parameters of the 24hour Holter examination in people without atrial fibrillation.

The variables are presented as the OR (95% CI). The ORs and 95% CI were estimated by a multivariate logistic regression analysis.

*The variables were adjusted for the sex, age, known cardiovascular disease history, and known atrial fibrillation history.

24 hr AMBP parameter		Unadjusted		Adjusted ⁺		
		· _	HR (95% CI)	P-value	HR (95% CI)	P-value
		24 Mean sBP	1.016	0.207	1.006	0.612
			(0.991–1.041)	0.207	(0.983–1.30)	0.012
			1.003	0.002	1.014	0.527
		24 Mean dBP (0.9	(0.961–1.047)	0.882	(0.971–1.059)	0.537
			1.014	0.282	1.011	0.242
		Day mean sBP	(0.989–1.039)		(0.988–1.036)	0.343
24 hr	- 1	Fotal Day mean dBP	0.993	0.993	1.004	0.070
AMBP	Total		(0.950–1.037)		(0.960-1.050)	0.869
		Night mean	1.017	0.145	1.010	0.205
		sBP	(0.994–1.040)	0.145	(0.988–1.032)	0.385
		Night mean	1.029		1.021	0.000
		dBP	(0.988–1.071)	0.165	(0.979–1.065)	0.322
		D.	0.379	0.047*	0.593	
		Dipper	(0.146–0.987)	0.047*	(0.213–1.647)	0.316

 Table S10. HR and 95% CI of the incidence of the total cardiovascular disease according to the 24

 hour AMBP parameters analyzed by a Cox proportional hazard model

HR and 95% CI of the incidence of the total cardiovascular disease according to the 24-hour AMBP parameters analyzed by a Cox proportional hazard model. The variables are presented as the HR (95% CI). The HRs and 95% CIs were estimated by a Cox-proportional hazard model.

HR, hazard ratios; sBP, systolic blood pressure; dBP, diastolic blood pressure.

*Statistical significance (P<0.05) of the difference between the two groups.

[†]The variables were adjusted for the sex, age, known cardiovascular disease history, and known atrial fibrillation history.

Holter parameter		Unadjusted		Adjusted [†]	
		HR (95% CI)	P-value	HR (95% CI)	P-value
	APC	0.506 (0.008-30.748)	0.745	0.000 (0.000)	0.983
Stroke	PVC	0.686 (0.124-3.801)	0.666	0.000 (0.000)	0.964
	SDNN	0.973 (0.953–0.993)	0.009*	0.983 (0.961–1.006)	0.153
	SDaNN	0.966 (0.942–0.991)	0.008^{*}	0.982 (0.957–1.007)	0.154
	APC	1.247 (1.053–1.476)	0.011*	1.207 (1.013–1.439)	0.036*
	PVC	1.101 (0.991–1.224)	0.073*	1.088 (0.960–1.233)	0.187
ACS	SDNN	0.986 (0.968–1.004)	0.121	0.997 (0.980–1.015)	0.737
	SDaNN	0.994 (0.975–1.013)	0.530	0.995 (0.976–1.014)	0.605
	APC	0.335 (0.000-884,381.388)	0.885	0.030 (0.000)	0.995
HF	PVC	0.631 (0.037–10.846)	0.751	0.000 (0.000)	0.967
	SDNN	1.007 (0.980–1.036)	0.603	1.009 (0.986–1.034)	0.437
	SDaNN	1.005 (0.977-1.034)	0.728	1.009	0.468

Table S11. HR and 95% CI of the incidence of the cardiovascular diseases according to the 24-hour

 Holter examination parameters analyzed by a Cox proportional hazard model

	APC	1.189 (1.007–1.405)	0.041*	1.158	0.087
	ni e			(0.979–1.370)	0.007
	DUC	1.052 (0.042, 1.156)	0.250	1.036	0.505
	PVC	1.053 (0.943–1.176)	0.359	(0.913–1.176)	0.586
Total	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.988 (0.975–1.000)	0.054	0.996	
	SDNN			(0.984–1.008)	0.525
		0.984 (0.970–0.998)	0.027*	0.995	
	SDaNN			(0.982-1.009)	0.502

(0.985 - 1.033)

HR and 95% CI of the incidence of the cardiovascular diseases according to the 24-hour Holter examination parameters analyzed by a Cox proportional hazard model.

The variables are presented as the HR (95% CI). The HRs and 95% CIs were estimated by a Coxproportional hazard model.

Significant baseline characteristics of HF: known cardiovascular disease history and known atrial fibrillation history.

Significant baseline characteristics of ACS: known cardiovascular disease history.

Significant baseline characteristics of a stroke: known cardiovascular disease history, known atrial fibrillation history, and dyslipidemia.

Significant baseline characteristics of the Total: known cardiovascular disease history and known atrial fibrillation history.

*Statistical significance (P<0.05) of the difference between the two groups.

[†]The variables were adjusted for the sex, age, and significant baseline characteristics related to each disease.