Supplementary Figure S1. Distribution of propensity scores. Patients were matched for the following variables: presence of diabetes, blood hypertension, chronic alcohol and tobacco use.

Supplementary Table S1. Demographic, clinical and pathological profiles of patients affected by acute stroke and non-affected counterparts after popensity score matching.

Variable		Control group N=58	Stroke group N=58	Chi Square p-value
Age (years) mean±sd		69.97±10.3	70.38±10.7	0.832
Sex N(%)	**Female**	24(41.38)	20(34.48)	0.444
	Male	34(58.62)	38(65.52)	
Residential background N(%)	**Urban**	29(50)	39(67.24)	0.059
	Rural	29(50)	19(32.76)	
Atrial Fibrillation N(%)	**No**	44(75.86)	36(62.07)	0.108
	Yes	14(24.14)	22(37.93)	
Dyslipidemia N(%)	**No**	29(50)	22(37.93)	0.19
	Yes	29(50)	36(62.07)	
Diabetes N(%)	**No**	37(63.79)	43(74.14)	0.229
	Yes	21(36.21)	15(25.86)	
Blood Hypertension N(%)	**grade 1**	6(10.34)	5(8.62)	0.323
	grade 2	31(53.45)	24(41.38)	
	grade 3	21(36.21)	29(50)	
Chronic Alcohol use N(%)	**No**	43(74.14)	48(82.76)	0.259
	Yes	15(25.86)	10(17.24)	
Chronic Smoker N(%)	**No**	41(70.69)	48(82.76)	0.124
	Yes	17(29.31)	10(17.24)	

Supplementary Table S2. Variation of TM levels at the first measurement (T1) in patients with stroke and in the control group.

		All cases		Control group		Stroke group	
Variable		**mean±sd**	**t-test p-value**	**mean±sd**	**t-test p-value**	**mean±sd**	**t-test p-value**
Sex	**Female**	11.72±10.22	0.126	3.8±1.88	0.511	20.53±8.25	0.053
	Male	14.85±12.76		3.52±1.6		24.87±9.42	
Atrial Fibrillation N(%)	**No**	12.99±12.09	0.411	3.51±1.69	0.289	24.23±9.05	0.236
	Yes	14.78±11.31		4.02±1.82		21.55±9.3	
Dyslipidemia N(%)	**No**	10.95±9.74	**0.021**	3.65±1.86	0.963	20.14±7.57	**0.026**
	Yes	15.63±12.96		3.63±1.6		25.12±9.64	
Diabetes N(%)	**No**	14.57±11.89	0.132	3.39±1.73	0.134	22.9±8.98	0.608
	Yes	11.26±11.54		4.03±1.66		24.28±10.1	
Chronic Alcohol use N(%)	**No**	14.54±12.1	0.071	3.72±1.76	0.586	23.01±9.71	0.685
	Yes	10.19±10.36		3.47±1.65		24.3±5.02	
Chronic Smoker N(%)	**No**	14.55±11.49	0.081	3.8±1.65	0.277	22.6±8.75	0.185
	Yes	10.43±12.56		3.32±1.84		26.77±11.24	

Supplementary Table S3. Variation of TM levels at the second measurement (T2) in patients with stroke.

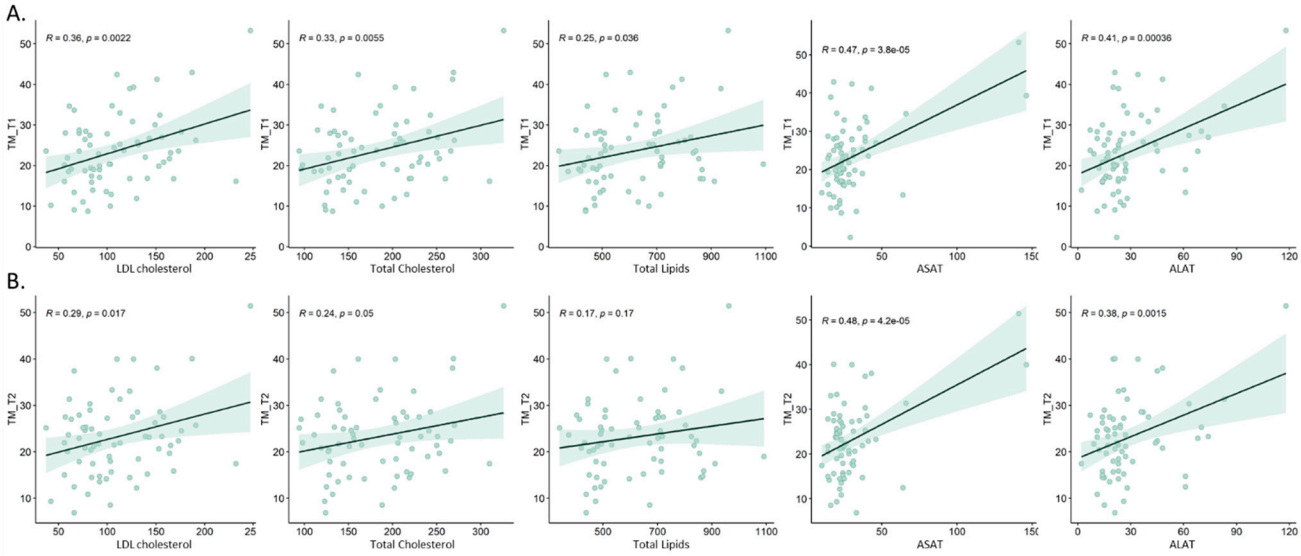
Variable		**mean±sd**	**t-test p-value**
Sex	**Female**	19.82±6.53	**0.01**
	Male	25.11±8.76	
Atrial Fibrillation N(%)	**No**	23.35±8.53	0.744
	Yes	22.66±8.18	
Dyslipidemia N(%)	**No**	21.29±7.09	0.162
	Yes	24.21±8.93	
Diabetes N(%)	**No**	22.69±8.29	0.463
	Yes	24.5±8.66	
Chronic Alcohol use N(%)	**No**	22.97±8.79	0.783
	Yes	23.77±5.3	
Chronic Smoker N(%)	**No**	22.36±7.8	0.066
	Yes	27.85±10.59	

Supplementary Table S4. TM values analysis with the type of stroke

	mean±sd		
Variable	**Cardioembolic**	**Atherothrombotic**	**t-test p-value**
TM T1	21.55±9.3	24.23±9.05	0.236
TM T2	22.66±8.18	23.35±8.53	0.744

Supplementary Table S5. Correlation of TM values at T_1 and T_2 with the biochemical parameters of the AIS patients. *R: Pearson correlation coefficient.*

Biochemical parameter	**TM T_1**		**TM T_2**	
	R	**p-value**	**R**	**p-value**
LDL Cholesterol [mg/dl]	0.365	**0.002**	0.291	**0.017**
HDL Cholesterol [mg/dl]	0.14	0.253	0.064	0.608
Total Cholesterol [mg/dl]	0.333	**0.006**	0.241	**0.05**
Triglycerides [mg/dl]	0.075	0.544	0.031	0.805
Total Lipids [mg/dl]	0.255	**0.036**	0.17	0.169
Alanine aminotransferase (ALAT) [U/L]	0.415	**<0.001**	0.377	**0.002**
Aspartate aminotransaminase (ASAT) [U/L]	0.471	**<0.001**	0.475	**<0.001**
Urea [mg/dl]	-0.114	0.345	-0.006	0.961
Creatinine [mg/dl]	-0.109	0.371	0.032	0.795
Na [mmol/L]	-0.069	0.573	-0.026	0.832
Cl [mmol/L]	0.166	0.169	0.166	0.176
K [mmol/L]	-0.196	0.104	-0.176	0.151
AR [mmol/L]	-0.09	0.458	-0.063	0.607



Supplementary Figure S2. Correlation plots of TM levels at T_1 (**A**) and at T_2 (**B**) with biochemical parameters in AIS patients. *R: Pearson correlation coefficient.*