

Supplementary Material to:

Brain-Derived Neurotrophic Factor mitigates the association between platelet dysfunction and cognitive impairment

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1 Supplementary Tables

S-Table 1. Hierarchical linear regression model of plasma BDNF levels

Variable	R ²	Δ R ²	b	F	p
Step 1	0.005			3.1	0.046
Sex			-0.100		0.032
Age			-0.004		0.201
Step 2	0.375	0.371		255.6	0.0001
Sex			-0.140		0.0001
Age			-0.005		0.049
sP-selectin			0.529		0.0001
Step 3	0.398			210.7	0.0001
Sex			-0.045		0.245
Age			-0.002		0.358
sP-selectin			0.542		< 0.0001
CAD			-0.265		< 0.0001
Step 4	0.423	0.025		186.5	0.0001
Sex			-0.046		0.219
Age			-0.003		0.270
sP-selectin			0.708		0.0001
CAD			2.265		0.0001
sP-selectin X CAD			-0.279		0.0001

S-Table 2. The effect of antiplatelet therapy on platelet activity and BDNF levels

Group	Therapy	n	sP-selectin		log sP-selectin				BDNF		log BDNF			
			Median	IQR	Mean	SD	t-test	p	Median	IQR	Mean	SD	t-test	p
non-CAD	No antiplatelet	469	7150	4340-14548	8.98	0.87	0.38	0.36	931	501-1603	6.84	0.86	1.79	0.07
	Antiplatelet	138	7105	4290-13769	8.94	0.82			740	437-1498	6.69	0.87		
CAD	No antiplatelet	79	6945	4243-16435	9.00	0.96	1.67	0.75	766	360-1289	6.55	0.81	0.97	0.34
	Antiplatelet	594	8694	4667-21181	9.19	0.99			787	473-1245	6.40	0.75		

IQR: Interquartile Range (25th - 75th percentile), SD: Standard Deviation