

## *Supplementary material*

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*Kasprzak D, Ganowicz-Kaatz T, Rzeźniczak J, et al. Factors associated with terminal activation duration in young athletes. Kardiol Pol. 2023.*

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**Table S1. Main characteristics of the pilot study sample.**

<b>Number of participants</b>	<b>220</b>
<b>Gender</b>	Female: 56 (25%), Male: 164 (75%)
<b>MI type</b>	NSTEMI: 101 (46%), STEMI: 119 (54%).
<b>CI characteristic*</b>	Permanent CI: 48 (22%), Transient CI: 41 (19%), New-onset CI: 26 (12%), Without CI: 105 (48%)
<b>Mean age (SD)</b>	60.1(9.3) years

\*According to MMSE scale

**Table S2.** Statistical characteristics of variables Age [years], ISI [points], EF [%], BNP [pg/ml], SYNTAX [points], TN [ng/l] and BDI [points] considered for discussion in this pilot study. Measurements are presented for the first MI-related hospitalization on day 2-3 following PCI and 6 months later for the following four group of patients depending on the changes of their mental status: 1) permanent CI – presented both at baseline and after 6 months, 2) transient – with deficits at baseline but with a normal test result after 6 months, 3) new onset of CI – only after 6 months, and 4) without CI during observation. CI was defined as CDT level  $\geq 1$  or MMSE  $< 27$  point. Median (IQR calculated as

Q1-Q3) are presented since Shapiro-Wilk test did not confirmed normal distributions of continuous variables. P-values from Mann-Whitney test are presented which was performed as post-hoc test sequentially for 2 groups and Bonferroni correction was applied.



Follow up	CDT	ISI [points]	6 (3 - 11)	6.5 (3 - 13)	5.5 (3 - 14.8)	7 (3 - 11)	0.65	0.86	0.98	0.96	0.58	0.8
Follow up	CDT	BDI [points]	9 (6.8 - 12)	7 (4 - 12.8)	9 (4.8 - 17)	7 (3.5 - 13)	0.34	0.88	0.16	0.51	0.7	0.27
Follow up	MMSE	EF [%]	50 (50-60)	50 (50-60)	50(50 - 60)	50(50 - 60)	0.67	0.37	0.62	0.22	0.98	0.21
Follow up	MMSE	ISI [points]	5.5 (3 - 12)	7 (5 - 12.2)	7 (4 - 10)	6 (3 - 11)	0.31	0.86	0.87	0.26	0.17	0.96
Follow up	MMSE	BDI [points]	9 (5 - 13.5)	8 (3.8 - 13)	7 (4 - 9)	7.5 (4 - 13.2)	0.37	0.03	0.36	0.3	0.89	0.21

**Abbreviations:** BDI- Beck Depression Inventory; BNP-brain natriuretic peptide; CDT- Clock Drawing Test; EF-ejection fraction; ISI- Insomnia Severity Index; MMSE – Mini Mental State Examination; Tn- troponin;