Supplementary material

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.

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

Hospitalisation	Assessment of CI	Variable	Permanent CI (1)	Transient Cl (2)	New onset Cl (3)	Without Cl (4)	p(1 vs. 2)	p(1 vs. 3)	p(1 vs. 4)	p(2 vs. 3)	p(2vs. 4)	p(3 vs. 4)
The first MI-related hospitalization	CDT	Age [years]	65 (59.8 - 69)	60.5 (54.2 - 66)	62.5 (59.5 - 67.2)	59.5 (53 - 65.2)	0.02	0.32	0.01	0.16	0.59	0.045
The first MI-related hospitalization	CDT	ISI [points]	8 (3.8 - 11.5)	8.5 (4.2 - 15)	7 (4 - 14.5)	8 (4 - 13)	0.46	0.51	0.98	0.92	0.32	0.42
The first MI-related hospitalization	CDT	EF [%]	0.5 (0.4 - 0.5)	0.5 (0.4 - 0.5)	0.5 (0.4 - 0.6)	0.5 (0.5 - 0.6)	0.25	0.4	0.006*	0.92	0.12	0.2
The first MI-related hospitalization	CDT	BNP [pg/ml]	149.6 (91.3 - 242.8)	142.1 (56.7 - 283.4)	148.2 (70.7 - 256.8)	87.7 (46 - 140.8)	0.61	0.66	0.003*	1.00	0.03	0.06
The first MI-related hospitalization	CDT	SYNTAX [points]	9 (6.5 - 15.5)	10 (8 - 17)	8.5 (7 - 10.5)	9 (6 - 13.5)	0.46	0.41	0.27	0.1	0.03	0.92
The first MI-related hospitalization	CDT	TN [ng/l]	1782 (568.2 - 3229)	1618 (143.5 - 9071)	272.5 (59.5 - 2491.2)	479 (69 - 3117)	0.94	0.04	0.04	0.06	0.07	0.51
The first MI-related hospitalization	CDT	BDI [points]	10 (8 - 13.5)	8 (4 - 11.8)	10 (5.8 - 14.2)	8 (4 - 15)	0.04	0.43	0.05	0.27	0.67	0.45
The first MI-related hospitalization	MMSE	Age [years]	60 (55.5 - 65.5)	64 (53 - 67.5)	60 (54 - 65)	61 (53 - 66)	0.35	0.89	0.83	0.53	0.39	0.9
The first MI-related hospitalization	MMSE	ISI [points]	8 (4 - 15)	10 (5 - 15)	5 (3 - 10.5)	7 (3 - 11)	0.74	0.06	0.1	0.04	0.04	0.51
The first MI-related hospitalization	MMSE	EF [%]	50 (40-50)	50 (40-50)	50 (40 - 60)	50 (40 - 60)	0.65	0.46	0.72	0.65	0.96	0.75
The first MI-related hospitalization	MMSE	BNP [pg/ml]	98.4 (49.5 - 165.7)	132.5 (75.4 - 259)	91.8 (50.6 - 150.1)	101.9 (47.9 - 198.4)	0.18	0.73	0.91	0.13	0.19	0.68
The first MI-related hospitalization	MMSE	SYNTAX [points]	9 (6 - 16)	8 (6 - 13.5)	9 (7 - 11)	10 (7 - 16)	0.3	0.55	0.92	0.79	0.25	0.37
The first MI-related hospitalization	MMSE	TN [ng/l]	457 (64 - 4065)	1548 (66.8 - 2907)	1182.5 (173.8 - 3115)	610.5 (116.5 - 5635)	0.63	0.4	0.4	0.71	0.85	0.77
The first MI-related hospitalization	MMSE	BDI [points]	10 (5.5 - 13.5)	9 (5 - 14.2)	9 (5 - 12.5)	8 (4 - 14)	0.44	0.41	0.43	0.87	0.93	0.81
Follow up	CDT	EF [%]	0.5 (0.4 - 0.5)	0.5 (0.4 - 0.6)	0.5 (0.5 - 0.6)	0.5 (0.5 - 0.6)	0.15	0.11	0.008*	0.69	0.35	0.91

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

Abbrevations: 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;