

Supplementary material

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Table S1. Characteristics of OHCA group

OHCA n = 68	Survivors n = 37	Non-survivors n = 31	P-value
Age, years, mean (SD)	67 (12)	70 (14)	0.32
Male, n (%)	29 (37)	17 (54)	0.04
Arrest witnessed, n (%)	33 (89)	22 (71)	0.06
By-stander CPR, n (%)	28 (75)	18 (58)	0.2
VF/pVT, n (%)	32 (86)	17 (55)	0.004
PEA/asystole, n (%)	5 (13)	14 (45)	0.004
ROSC, n (%)	37 (100)	29 (93)	0.2
Transfer to ICU, n (%)	20 (54)	18 (58)	0.85
Coronary angiography, n (%)	30 (81)	15 (48)	0.005
Defibrillation attempts, median (IQR)	1 (1–3)	1 (0–3)	0.18
SBP, mm Hg, median (IQR)	110 (100–125)	100 (80–110)	<0.001
DBP, mm Hg, median (IQR)	70 (60–75)	60 (50–67)	0.002
SpO ₂ , median (IQR)	92 (90–94)	90 (85–92)	0.01
STEMI, n (%)	12 (32)	3 (10)	0.02
NSTEMI, n (%)	8 (21)	12 (39)	
UA, n (%)	6 (16)	1 (3)	
No ACS, n (%)	11 (30)	15 (48)	
PCI, n (%)	17 (46)	7 (22)	0.57
EF (%), median (IQR)	35 (25–44)	30 (25–50)	1.00
hs-cTnT, ng/ml, median (IQR)	0.241 (0.063–0.8)	0.246 (0.112–0.76)	0.44
CK-MB mass, ng/ml, median (IQR)	3.88 (3.84–32.25)	14.35 (7.44–59.65)	0.1
NT-proBNP, pg/ml, median (IQR)	988.7 (477.75–2875.5)	1823 (1405–6146)	0.1

Abbreviations: ACS, acute coronary syndrome; CK-MB, MB isoenzyme of creatine kinase; CPR, cardiopulmonary resuscitation; DBP, diastolic blood pressure; EF, ejection fraction; hs-cTnT, high sensitivity cardiac troponin T; ICU, intensive care unit; IQR, interquartile range; NSTEMI, non-ST elevation myocardial

infarction; NT-proBNP, N-terminal pro-B-type natriuretic peptide; OHCA, out-of-hospital cardiac arrest; PCI, percutaneous coronary intervention; PEA, pulseless electrical activity; pVT, pulseless ventricular tachycardia; ROSC, return of spontaneous circulation; SBP, systolic blood pressure; SD, standard deviation; SpO₂, peripheral oxygen saturation; STEMI, ST elevation myocardial infarction; UA, unstable angina; VF, ventricular fibrillation

Table S2. Characteristics of in-hospital cardiac arrest group

HCA, n = 80 (%)	Survivors n = 29	Non-survivors n = 51	P-value
Age, years, mean (SD)	73 (8.3)	73 (15)	0.453
Male, n (%)	16 (55)	25 (49)	0.597
VF/pVT, n (%)	18 (62)	5 (10)	<0.001
PEA/asystole, n (%)	11 (38)	46 (90)	<0.001
ROSC, n (%)	29 (100)	26 (51)	<0.001
Transfer to ICU, n (%)	6 (21)	17 (33)	0.68
Coronary angiography, n (%)	25 (86)	29 (56)	0.007
Defibrillation attempts, median (IQR)	1 (0–1)	0 (0–0)	<0.001
SBP, mm Hg, median (IQR)	108 (100–110)	100 (80–120)	0.1
DBP, mm Hg, median (IQR)	60 (60–70)	60 (50–80)	0.75
SpO ₂ (%), median (IQR)	92 (90–95)	90 (85–90)	<0.001
STEMI, n (%)	12 (41)	14 (27)	0.02
NSTEMI, n (%)	9 (31)	14 (27)	
UA, n (%)	3 (10)	2 (4)	
No ACS, n (%)	5 (17)	21 (42)	
PCI, n (%)	19 (66)	19 (37)	0.028
EF (%), median (IQR)	43 (30–50)	29 (20–35)	<0.001
hs-cTnT, ng/ml, median (IQR)	0.246 (0.097–1.87)	0.246 (0.107–0.27)	0.841
CK-MB mass, ng/ml, median (IQR)	4.21 (3.33–37.7)	32.79 (4.13–42.25)	0.640
NT-proBNP, pg/ml, median (IQR)	2239 (1660–1274)	7540 (2430–7551)	0.928

Abbreviations: see *Table S1*

Table S3. Receiver operating characteristic curve analysis for SpO₂ and LVEF threshold identification

Variable	AUC	95% CI	P-value	“Cut-off” criterion
SpO ₂	0.615	0.532–0.694	0.01	≤90%
LVEF	0.734	0.655–0.803	<0.001	≤30%

Abbreviations: AUC, area under the curve; CI, confidence interval; LVEF, left ventricular ejection fraction; other — see *Table S1*

