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Supplementary online material

The PCRR-HT Study Group

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*PCRR-HT is the Spanish acronym for Recovered Cardiorespiratory Arrest-Hypothermia; GTCIC-PNRCP is the Spanish acronym for Working Group of Cardiac Intensive Care Units-National Plan of Cardiopulmonary Resuscitation; SEMICYUC is the Spanish acronym for Spanish Society of Intensive Care Medicine and Coronary Units)

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ROSC
n = 595

VF
n=196

VT
n=28

PEA
n=111

ASYS
n=199

BRADY
n=38

AED non-shockable
n=371

AED Shockable
n=224

Not recorded
n=5

Unknowr
n=18

					HOSPITAL						
LOCATION	Home	Work	Public	Non hospital MC	Ward	EMR	ICU	Reanim-surgery	Ext-consult	Spec-serv	Other
	n=131	n=15	n=88	n=26	n=102	n=81	n=69	n=17	n=11	n=8	n=47

PATIENT	Age	Sex	
	median 68 yers	Men n=413	Women n=182

WITNESSED	Bystander	Unwitnessed	Unknown
	N: 561	n=27	n=7

BYSTANDER RESPONSE	BYSTANDER CPR						BYSTANDER AED		
	No bCPR	bCPR	CC only	CC/vent	SVA	Unknown	Analyze	Shock	unknown
	n=311	n=283	n=97	n=141	n=45	n=1	n=203	n=68	n=2

ETIOLOGY	Cardiac	Non-cardiac
	n: 341	n=254

EMS PROCESS	First defibrill time	Targeted temp. control out hospital			Drugs given
	min ± s	Indicated-done	Indicated not done	Unknown	236/285
	14 ± 12.35	27/153	126/153	n=5	

HOSPITAL PROCESS	Reperfusion	Targeted temperature control in-hospital				Organ donation
	Attempted	Indicated-done		Not indicated-not done	Unknown	no data
	n=150	OHCA 126/197	IHCA 44/197	266/310	n=3	

OUTCOMES	SURVIVED EVENT	SURVIVAL (discharge)	NEUROLOGICAL OUTCOME discharge, CPC 2 or less
All treated arrests n=595	n=304	n=243	n=221
Shockable n=281	n=182	n=156	n=142
Non-shockable n=314	n=122	n=87	n=79

Figure 1. Utstein standardized template for reporting outcomes from cardiac arrest (AED: automated external defibrillator; ASYS: asystole; bCPR: bystander cardiopulmonary resuscitation; Brady: bradycardia; CC: chest-compression-only; CPC: cerebral performance category; CPR: cardiopulmonary resuscitation; EMR: emergency room; EMS: emergency medical services; Ext-consult: outpatient clinics; IHCA: in-hospital cardiac arrest; MC: medical center; OHCA: out-of-hospital cardiac arrest; PEA: pulse electrical activity; ROSC: return of spontaneous circulation; Spec-serv: specialized service (coronary unit, hemodynamic unit); SVA: advanced life support; VF: ventricular fibrillation; VT: ventricular tachycardia).

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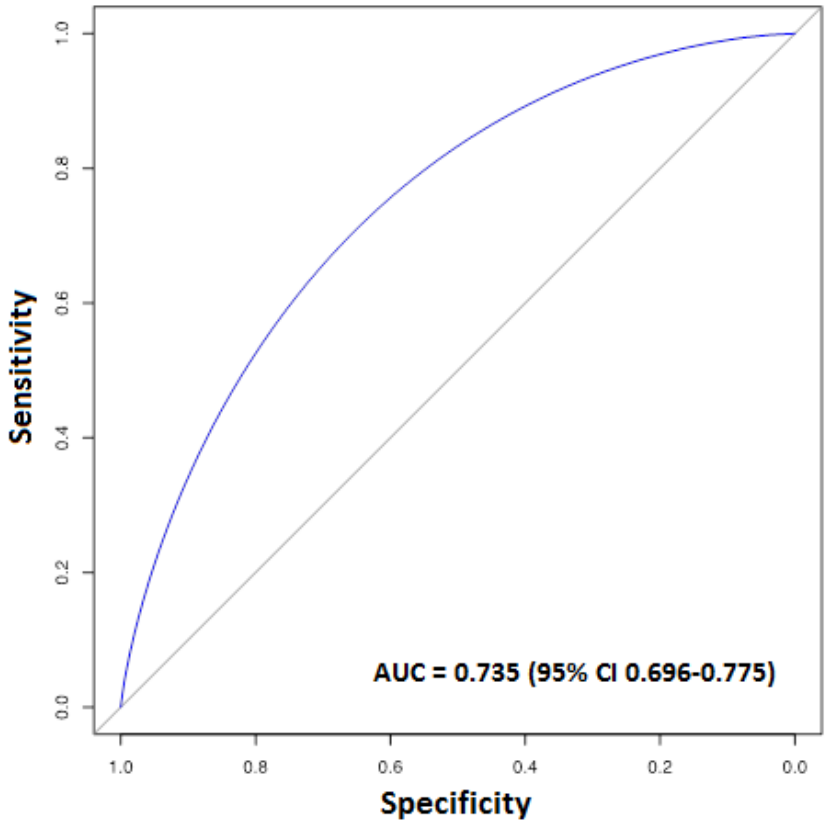

Sensitivity	**74.2% (95% CI 68.8-79.2)**
Specificity	**62.3% (95% CI 56.7-67.9)**
Positive predictive value	**71.6% (95% CI 67.0-75.7)**
Negative predictive value	**65.5% (95% CI 61.8-69.0)**

Figure 2. ROC curve for the predictive score of ICU mortality with the closest.topleft discriminant threshold of -0.1394. AUC: area under the curve. Score: 0.019 (age) + 0.992 (non-cardiac cause of arrest) -0.614 (PCI procedure) -0.898 (shockable rhythm) + 1.069 (ROSC > 20 min) + 0.016 (total CPR time).

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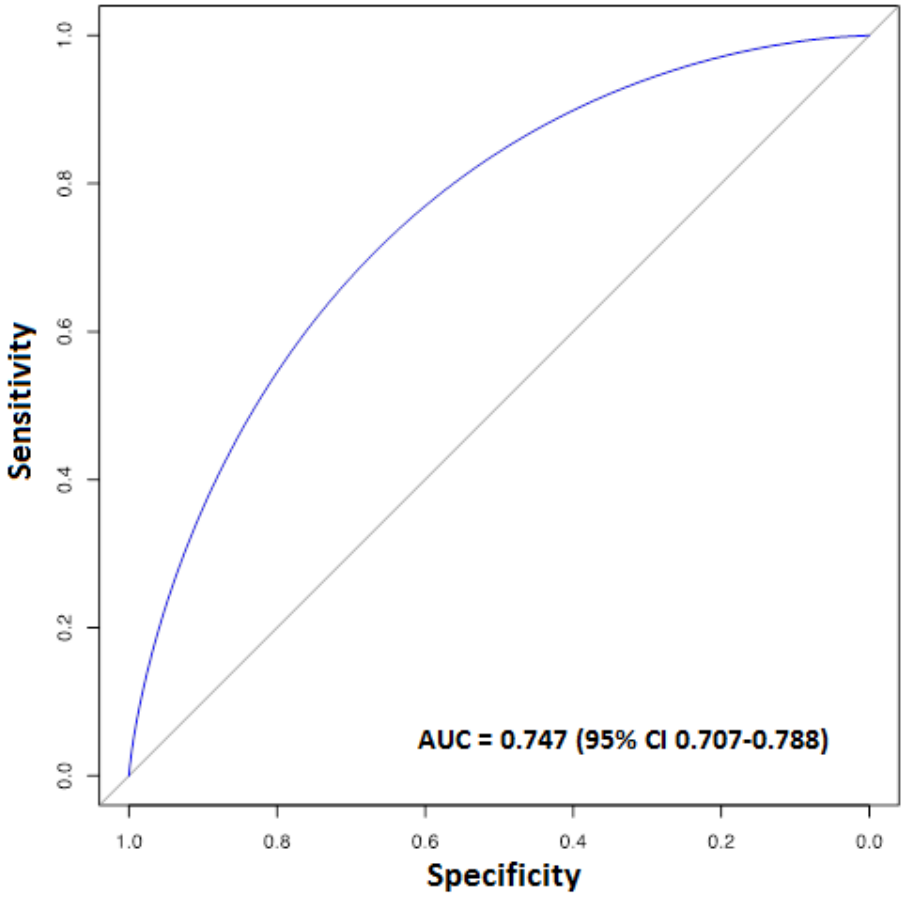

Sensitivity	**73.9% (95% CI 68.9-78.4)**
Specificity	**65.3% (95% CI 58.9-71.3)**
Positive predictive value	**63.2 (95% CI 58.5-67.7)**
Negative predictive value	**75.6 (95% CI 72.0-78.8)**

Figure 3. ROC curve for the predictive score of overall in-hospital mortality with the closest.topleft discriminant threshold of 0.2977. AUC: area under the curve. Score: 0.022 (age) + 0.770 (non-cardiac cause of arrest) -0.602 (PCI procedure) -0.960 (shockable rhythm) + 1.122 (ROSC > 20 min) + 0.015 (total CPR time).