

Supplementary Table 1: A Summary of the Key Features in Each Score

	Author(s)	Patients in the Development Cohort (n)	Retrospective/Prospective	Variables (n)	Outcome	Therapeutic Hypothermia Cohort	Accuracy of Prediction (AUC) DC IVC EVC	Validation
NULL-PLEASE	Ahmad et al. 2016. ⁵	Unknown	Retrospective	10	In-hospital mortality	No	EVC 0.874 (95% CI 0.807–0.942), 0.874 (95% CI 0.848–0.899)	Internal and external
Modified NULL-PLEASE	Potpara et al. 2017. ⁶	547	Retrospective	8	In-hospital mortality	No	IVC 0.658 (95% CI 0.613–0.704)	Internal
PCAC	Rittenberger et al. 2011. ⁷	457	Retrospective	9	In-hospital mortality, multi-organ failure	No	EVC 0.82	External
CAHP	Maupain et al. 2016. ¹¹	819	Prospective	7	Neurological outcome at discharge (CPC)	No	EVC 0.82 (95% CI 0.77–0.86)	Internal and external
C-GRaPH	Kiehl et al. 2017. ²⁴	122	Retrospective	5	Neurological outcome at discharge (CPC)	Yes	DC 0.82 (95% CI 0.74–0.90) EVC 0.81 (95% CI 0.76–0.87)	Internal

CREST	Bascom et al. 2018. ⁴	638	Retrospective	5	Circulatory aetiology death	No	DC 0.73 IVC 0.68	Internal
PEA	Haider et al. 2016. ⁸	Unknown	Unknown	3	In-hospital mortality	No	DC 0.61 (95% CI 0.60–0.62)	Internal
RACA	Gräsner et al. 2011. ³	5471	Retrospective	8	Probability of ROSC	No	IVC 0.731 (95% CI 0.710–0.751) EVC 0.76 (95% CI 0.74–0.78)	Internal and external
OHCA	Albaeni et al. 2014. ¹³	96	Retrospective	3	Neurological outcome at discharge (CPC)	No	DC 0.84 (95% CI 0.75–0.93) IVC 0.92 (CI 0.87–0.98)	Internal
SALTED	Perez-Castellanos et al. 2019. ¹²	153	Retrospective	5	Mortality or CPC 3–5 at 6 months	Yes	-	Internal
CRASS	Seewald et al. 2020. ¹⁴	7985	Retrospective	12	Probability of discharge with good neurological outcome	No	DC 0.88 (95% CI 0.87–0.89) IVC 0.88 (95% 0.86–0.90)	Internal
BDCA	Madelaine et al. 2021. ¹⁰	569	Retrospective	7	Brain death during admission	No	DC 0.817 (95% CI 0.768–0.861) IVC 0.805 (95% CI 0.755–0.855)	Internal

CAST	Nishikimi et al. 2017. ¹⁵	77	Retrospective	8	Neurological outcome at 30 days (CPC)	Yes	IVC 0.97 EVC 0.86 (95% CI 0.777–0.944)	Internal and external
GCS	Nadolny et al. 2021. ⁹	218	Prospective	3	In-hospital mortality	No	IVC 0.735 (95% CI 0.655–0.816)	None
rCAST	Nishikimi et al. 2019. ¹⁶	151	Retrospective	5	Neurological outcome at 30 days (CPC)	Yes	IVC 0.892 EVC 0.77 (95% CI 0.659–0.880)	Internal and external
SLANT	Chen et al. 2022. ¹⁷	305	Retrospective	5	Neurological outcome (CPC) at discharge	Yes	DC 0.852 (95% CI 0.800–0.903)	Internal
MIRACLE2	Pareek et al. 2020. ²⁵	373	Retrospective	7	Neurological outcome (CPC) at 6 months	No	DC 0.9 (95% CI 0.865–0.928) IVC 0.84 (95% CI 0.829–0.846) and 0.91	Internal

BDCA = brain death after cardiac arrest; CAHP = cardiac arrest hospital prognosis; CRASS = cardiac arrest survival score; DC = development cohort; EVC = external validation cohort; GCS = Glasgow Coma Scale; IVC = internal validation cohort; PCAC = Pittsburgh cardiac arrest category; rCAST = revised CAST; CPC = cerebral performance category; OHCA = out-of-hospital cardiac arrest; ROSC = return of spontaneous circulation; AUC = area under curve

Source: original