Supplementary Table 2: Prediction model Risk Of Bias Assessment Tool (PROBAST)

STUDY	SCORE	STUDY	Risk of Bias (ROB)				Applicability			Overall	
		TYPE	Participants	Predictors	Outcome	Analysis	Participants	Predictors	Outcome	ROB	Applicability
Martinez-Sellís M, Muínoz P et al.9	PALSUSE	Development only	-	+	+	_	?	+	+	-	+
			Participants undergoing medical treatment and later those with implantable devices excluded; Use of univariate analysis, Exclusion of subgroups of patients, No information RE handling of missing data, No internal validation								
De Feo M, Cotrufo M et al. ¹⁰	DE FEO	Development only	-	+	+	_	?	+	+	-	+
			Left sided native valve active surgically managed patients only, <20 events per variable (EPV) for development cohort (40 patients), No information RE handling of missing data, No internal validation								
Gatti G, Benussi B et al. ¹¹	ANCLA	Development only	-	+	+	-	?	+	+	-	+
			Surgical patients only. <20 EPV for development cohort (28 patients), No information RE handling of missing data, No intervalidation							lata, No internal	
Olmos C, Vilacosta I et al. ¹²	RISK-E	Development and validation	-	?	+	-	?	+	+	-	+
			Surgical patients with left-sided IE only. Duke criteria used up to 2002 and modified Duke criteria thereafter. Only 68 patients								
					the outcome	in the validat	ion sample – PRO	DBAST recomm	nends >100.	T	Т
Di Mauro M, Dato GMA et al. ¹³	EndoSCORE	Development only	-	+	+	+	?	+	+	-	+
W 1 B 1 E 1 E E BM			Surgical patients; No information RE handling of missing data								
Varela Barca L, Fernandez-Felix BM et al. ¹⁴	APORTEI	Validation only	=	+	+	+	?	+	+	-	+
			Surgical patients only, 342 patients with the outcome (>100 as per guidelines for a validation study); No information RE								
C # C P # 13	A EDELL O. H	D 1 1 1				handl	ing of missing da	ta		1	T .
Gatti G, Perrotti A et al. ³	AEPEI I & II	Development only	- C:-14:	+	+ PN/ 6 11	1	rt (56 in-hospital o	+ 141-). N :£	+ 	- 411	+
Costa MAC, Wollman DR et al. ¹⁵	COSTA	Development only	Surgical pati	ents only. \20 E	P v Tor devel	оринент соног	t (56 m-nospitai e	leatin); No infor	mation RE na	indring o	+
Costa MAC, Wollman DR et al.	COSTA	Development only		20 EDV for day	olonmont ook	- ort (40 in hos	spital death); No i	nformation DE	handling of m	iccina d	
Chee OZ, Tan YQB et al. 16	SHARPEN	Development only	+	20 EFV for dev		1011 (49 111-1108	+			lissing u	+
Chee OZ, Tan TQB et al.	SHAKEEN	Development only		20 EDV for day	alonment coh	ort (54 in hos	spital death); No i	nformation PE	handling of m	iccina d	
Park LP, Chu VH et al. ¹⁷	Simplified Risk Score (ICE)	Development and validation	+	+	+	?	+	?	+	+	+
			Prosthetic valves excluded; selection of predictors made a priori by an experienced cardiologist								
Lopez J, Fernandez-Hidalgo N et al. 18	LOPEZ	Development and validation	-	?	+	+	?	+	?	-	?
			Surgical patients with left-sided active IE only; Duke criteria used up to 2002 and modified Duke criteria thereafter; Sufficient EPVs for the development study; 132 and 122 patients with the outcome for internal and external validation respectively (>100 as per guidelines for a validation study). Outcome included in-hospital mortality AND/OR urgent surgery								
He PC, Wei XB et al. ¹⁹	Modified MELD-XI	Development only	+	+	+		+	+	+	-	+
					<20 EP	V for develop	ment cohort (70	in-hospital death	1)		
Bjurman C, Snygg-MartinU et al.	CystatinC	Development only	+	-	+	-	+	-	?	-	+
			Grade of	myocardial infa	ction as pred	ictor not clear	rly defined, <20 E	PV for develop	ment cohort (42 death	at 5 years)
EPV: Events per variable; + indicates low	ROB/low concern r	egarding applicability; -	indicates high RO	OB/high concern	regarding ap	plicability; ?	indicates unclear	ROB/unclear co	oncern regard	ing appli	cability