

Title	Prospective validation of a checklist to predict short-term death in older patients after emergency department admission in Australia and Ireland
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Data Supplement S1. Supplemental material.**Table S1. Accuracy of CriSTAL short-term death predictions: sample cut-off probabilities for both Australian and Irish final models including frailty as CFS (Rockwood)**

Predictive probability	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)
cut-off Australia				
(short-term death)				
0.74 [§]	4.9	99.8	66.7	91.9
0.50	14.8	99.4	70.6	92.7
0.25	32.1	95.8	41.3	93.9
0.10	66.7	80.3	23.8	96.3
0.05	84.0	56.2	15.0	97.4
Predictive probability	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)
cut-off Ireland				
(short-term death)				
0.62 [§]	2.2	100.0	1000.0	87.4
0.50	4.4	100.0	100.0	87.6
0.25	42.2	89.1	36.5	91.2
0.10	84.4	54.6	21.6	96.0
0.05	91.1	33.6	16.9	96.2

[§] available probability closest to 75% in this patient sample

Table S2. Secondary outcome: Predictors of in-hospital mortality**Table S2.1 Adjusted CriSTAL predictors of in-hospital mortality in the Australian cohort (panel A) and Irish cohort (panel B) based on logistic regression, bootstrap resampling. Final models with Frailty as CFS**

Effect	A. Model with Australian data				A. Model with Irish data			
	OR 95% Wald Confidence Limits		p value		OR 95% Wald Confidence Limits		p value	
Intercept	0.0015	0.0004	0.004	<0.0001	0.0001	0.000001	0.03	<0.0001
Male	3.09	1.75	5.99	0.0004	0.68	0.22	1.66	0.4163
Age	1.03	0.99	1.07	0.166	1.04	0.98	1.10	0.2021
Frailty as CFS	1.79	1.47	2.27	<0.0001	2.67	1.65	5.92	<0.0001
Advanced Malignancy	3.76	1.50	8.56	0.0013				
AUROC	0.799 (0.746 - 0.859)				0.81 (0.731-0.898)			

Table S2.2 Accuracy of CriSTAL predictions for in-hospital death: sample cut-off probabilities for both Australian and Irish final models with Frailty as CFS

Predictive probability	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)
cut-off Australia (in-hospital death)				
0.70 [‡]	1.8	1.0	100.0	94.7
0.50	7.1	99.6	50.0	94.6
0.25	17.9	97.8	33.3	95.0
0.10	48.2	87.8	19.7	96.5
0.05	80.4	69.0	13.8	98.3
Predictive probability	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)
cut-off Ireland (in-hospital death)				
0.51 [‡]	4.2	100.0	100.0	93.4
0.25	25.0	97.2	40.0	94.6
0.10	66.7	80.0	19.8	97.1
0.05	91.7	55.4	13.2	98.9

[‡]maximum probability of death in the in-hospital sample