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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 cut-off Australia (short-term death)	**Sensitivity (%)**	**Specificity (%)**	**PPV (%)**	**NPV (%)**
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 cut-off Ireland (short-term death)	**Sensitivity (%)**	**Specificity (%)**	**PPV (%)**	**NPV (%)**
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

	A. Model with Australian data				A. Model with Irish data			
Effect	**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 cut-off Australia (in-hospital death)	**Sensitivity (%)**	**Specificity (%)**	**PPV (%)**	**NPV (%)**
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 cut-off Ireland (in-hospital death)	**Sensitivity (%)**	**Specificity (%)**	**PPV (%)**	**NPV (%)**
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*