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SUPPLEMENTAL DATA

30-day mortality prediction in acute upper gastrointestinal bleeding: Incremental value of the prognostic nutritional index with ABC and Rockall scores

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Full article is available at the following link: 30-day mortality prediction in acute upper gastrointestinal bleeding: Incremental value of the prognostic nutritional index with ABC and Rockall scores

Table S1. Comparison of baseline clinical characteristics among included and excluded patients with acute upper gastrointestinal bleeding

Parameters	Include *n*=619	Exclude *n*=56	*p*
Age, years, med. (IQR)	74.0 (63.0-81.0)	75.5 (66.0-80.0)	0.409
Sex (M/F), *n* (%)	384 (62.0) / 235 (38.0)	36 (64.3) / 20 (35.7)	0.739
Vital sign at admission, med. (IQR)			
SBP	120.0 (110.0-130.0)	122.0 (109.5-134.0)	0.512
DBP	74.5 (67.0-80.0)	72.5 (63.0-80.0)	0.373
Heart rate	88.0 (80.0-97.0)	87.5 (81.0-95.5)	0.675
Respiratory rate	16.0 (15.0-18.0)	16.0 (15.0-19.0)	0.678
Oxygen saturation	98.0 (97.0-99.0)	98.0 (96.5-99.0)	0.900
Chronic Diseases, *n* (%)			
No	82 (13.2)	2 (3.6)	
1	132 (21.3)	14 (25.0)	0.107
2 or more	405 (65.4)	40 (71.4)	
Medication, *n* (%)			
None	83 (13.4)	2 (3.6)	0.034
Anti-platelet	187 (30.3)	15 (26.8)	0.582

Anti-coagulants	159(25.8)	21 (37.5)	0.058
NSAIDs	86(13.9)	6 (10.7)	0.501
Transfusion, *n* (%)	435 (70.4)	37 (66.1)	0.500
Laboratory, med. (IQR)			
Hemoglobin (g/dl)	8.8 (6.8-11.0)	8.5 (6.4-10.0)	0.294
Hematocrit (%)	27.0 (21.0-33.0)	27.0 (20.5-31.5)	0.496
Platelet (mm^3 x10^3)	242.0 (180.5-311.0)	254.0 (203.0-355.0)	0.260
Urea (mg/dl)	63.0 (40.0-96.0)	79.0 (46.0-115.0)	0.052
ALT (U/l)	11.0(8.0-17.0)	12.0 (8.5-16.5)	0.682
AST (U/l)	16.0 (12.0-22.0)	15.0 (11.0-23.0)	0.961
*Albumin (g/dl)	3.5 (3.2-3.9)	3.5 (2.9-3.9)	0.317
*Lactate	1.7 (1.1-2.3)	2.0 (1.3-2.5)	0.167
30 day mortality	49 (7.9)	3 (5.4)	0.492

*Excluded group: missing lactate (*n*=19) and/or albumin (*n*=37). Summary statistics for laboratory variables were calculated based on available cases. **Abbreviations**: IQR: Interquartile range; med: Median; M: Male; F: Female; SBP: Systolic blood pressure; DBP: Diastolic blood pressure; NSAIDs: Nonsteroidal anti-inflammatory drugs; ALT: Alanine aminotransferase; AST: Aspartate aminotransferase.

Table S2. Internal validation of discrimination and optimism-corrected AUROC for evaluated models

Model	*n*	Apparent AUROC	5-fold CV AUROC	Bootstrap AUROC (optimism-corrected)	95% CI (low)	95% CI (high)	Mean optimism
Base (Age+Sex+Lactate)	619	0.708	0.680	0.693	0.624	0.763	0.015
Base+PNI	619	0.774	0.758	0.767	0.707	0.828	0.012
ABC	619	0.748	0.735	0.747	0.675	0.824	0.001
ABC+PNI	619	0.782	0.766	0.778	0.713	0.848	0.004
Rockall	619	0.681	0.675	0.680	0.612	0.749	0.001
Rockall+PNI	619	0.765	0.758	0.760	0.698	0.825	0.004

Abbreviations: AUROC: Area under the receiver operating characteristic curve; CV: Cross-validation; CI: Confidence interval; ABC: Age, blood tests, and comorbidities; PNI: Prognostic nutritional index.

Table S3. Internal validation of cutoff-based performance for evaluated models using Youden threshold–based resampling

Model	CV Sens	CV Spec	CV PPV	CV NPV	CV Acc	Bootstrap Sens	Bootstrap Spec	Bootstrap PPV	Bootstrap NPV	Bootstrap Acc
Base (Age+Sex+Lactate)	0.510	0.714	0.133	0.944	0.698	0.638	0.662	0.151	0.957	0.660
Base+PNI	0.714	0.663	0.154	0.964	0.667	0.708	0.696	0.181	0.967	0.697
ABC	0.531	0.833	0.215	0.954	0.809	0.568	0.814	0.230	0.957	0.795
ABC+PNI	0.653	0.772	0.198	0.963	0.763	0.649	0.793	0.226	0.964	0.782
Rockall	0.673	0.582	0.122	0.954	0.590	0.721	0.544	0.126	0.960	0.558
Rockall+PNI	0.694	0.693	0.163	0.963	0.693	0.739	0.684	0.170	0.969	0.688

Internal validation was conducted utilizing stratified 5-fold cross-validation combined with bootstrap optimism correction through 1,000 resamples. Cutoff-based metrics were determined using a Youden threshold selected in each training fold or bootstrap sample and subsequently evaluated on the held-out fold or original dataset. **Abbreviations**: AUROC: Area under the receiver operating characteristic curve; CI: Confidence interval; PPV: Positive predictive value; NPV: Negative predictive value.