

**Supplementary Table 1 Scoring systems calculations**

Scores	Calculation	
Child-Turcotte-Pugh (CTP) score <sup>1</sup>	Bilirubin (Total)	< 34.2 µmol/L (1 point)
		34.2-51.3 µmol/L (2 points)
		> 51.3 µmol/L (3 points)
	Albumin	> 35 g/L (1 point)
		28-35 g/L (2 points)
		< 28 g/L (3 points)
	INR	< 1.7 (1 points)
		1.7-2.2 (2 points)
		> 2.2 (3 points)
	Ascites	Absent (1 points)
		Slight (2 points)
		Moderate (3 points)
	Encephalopathy	No Encephalopathy (1 points)
		Grade 1-2 (2 points)
		Grade 3-4 (3 points)
Model for end-stage liver disease (MELD) score <sup>2</sup>	$(0.957 * \ln(\text{Serum Cr}) + 0.378 * \ln(\text{Serum Bilirubin}) + 1.120 * \ln(\text{INR}) + 0.643) * 10$ (if hemodialysis, value for Creatinine is automatically set to 4.0)	
MELD-Na score <sup>3</sup>	$\text{MELD Score} - \text{Na} - 0.025 * \text{MELD} * (140 - \text{Na}) + 140$ (Sodium is limited in a range of 125-140, and if outside of these bounds, is set to the nearest limit).	
Clinical Rockall score (CRS) <sup>4</sup>	Age (years)	< 60 (0 point)
		60-79 (1 points)
		≥ 80 (2 points)
	Shock	No shock (0 point) (SBP ≥ 100mmHg and Pulse rate < 100 beats/minute)

		Tachycardia (1 point) (SBP $\geq 100$ mmHg and Pulse rate $\geq 100$ beats / minute)
		Hypotension (2 points) (SBP < 100 mmHg)
	Comorbidity	No major comorbidity (0 point) Cardiac failure, ischemic heart disease, any major comorbidity (2 points) Renal failure, liver failure, disseminated malignancy (3 points)
AIMS65 score	Age > 65 years (1 point)	
(AIMS65) <sup>5</sup>	SBP $\leq 90$ mmHg (1 point)	
	Altered level of consciousness (1 point)	
	Serum albumin < 30 g/L (1 point)	
	INR > 1.5 (1 point)	
Glasgow	Blood urea nitrogen (mmol/L)	6.5 $\leq$ BUN < 8 (2 points)
Blatchford		8 $\leq$ BUN < 10 (3 points)
score (GBS) <sup>6</sup>		10 $\leq$ BUN < 25 (4 points)
		BUN $\geq 25$ (6 points)
	Hemoglobin for men (g/L)	120 $\leq$ Hb < 130 (1 point)
		100 $\leq$ Hb < 120 (3 points)
		Hb < 100 (6 points)
	Hemoglobin for women (g/L)	100 $\leq$ Hb < 120 (1 point)
		Hb < 100 (6 points)
	SBP (mmHg)	100-109 (1 point)
		90-99 (2 points)
		< 90 (3 points)
	Other markers	Pulse rate $\geq 100$ beats/min (1 point) Presentation melena (1 point) Presentation syncope (2 points) Hepatic disease (2 points)

Cardiac failure (2 points)		
Modified Glasgow Blatchford score (mGBS) <sup>7</sup>	Blood urea nitrogen (mmol/L)	6.5 ≤ BUN < 8 (2 points)
		8 ≤ BUN < 10 (3 points)
		10 ≤ BUN < 25 (4 points)
		BUN ≥ 25 (6 points)
	Hemoglobin for men (g/L)	120 ≤ Hb < 130 (1 point)
		100 ≤ Hb < 120 (3 points)
		Hb < 100 (6 points)
	Hemoglobin for women (g/L)	100 ≤ Hb < 120 (1 point)
		Hb < 100 (6 points)
	SBP (mmHg)	100-109 (1 point)
CANUKA score <sup>8</sup>		90-99 (2 points)
		< 90 (3 points)
	Other markers	Pulse rate ≥ 100 beats/min (1 point)
	Age (years)	< 50 (0 point)
		50–64.9 (1 point)
		≥ 65 (2 points)
	Melena	No (0 point)
		Yes (1 point)
	Hematemesis	No (0 point)
		Yes (1 point)
	Syncope	No (0 point)
		Yes (1 point)
	Liver disease	No (0 point)
		Yes (2 points)
	Malignancy	No (0 point)
		Yes (2 points)
	Heart rate (beats / minute)	< 100 (0 point)
		100–124.9 (1 point)
		≥ 125 (2 points)
	SBP (mmHg)	≥ 120 (0 point)

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	100–119.9 (1 point)
	80–99.9 (2 points)
	< 80 (3 points)
Hemoglobin level (g/L)	≥ 121 (0 point)
	101–120 (1 point)
	81–100 (2 points)
	≤ 80 (3 points)
Urea level (mmol/L)	< 5 (0 point)
	5–9.9 (1 point)
	10–14.9 (2 points)
	≥ 15 3 (3 points)

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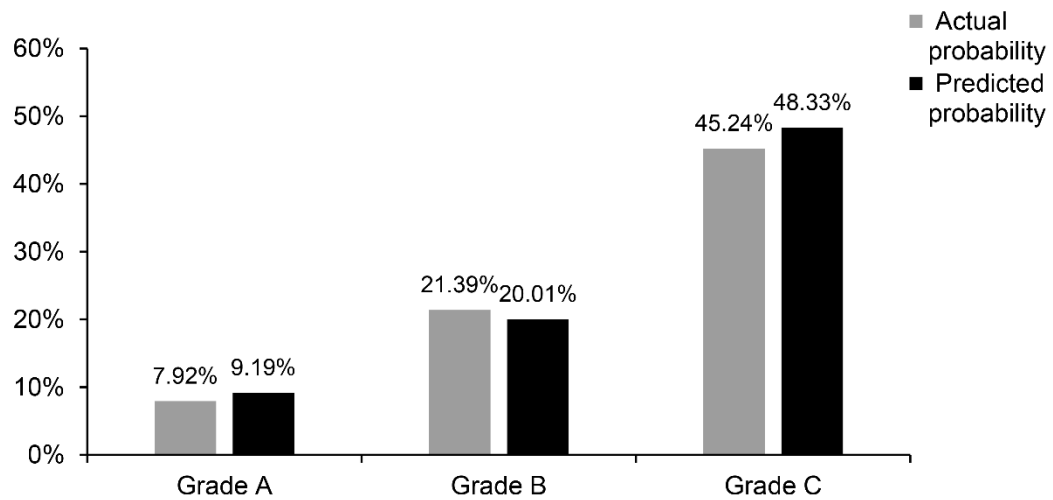
#### Supplementary reference

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- 6 **Blatchford O**, et al. A risk score to predict need for treatment for upper gastrointestinal haemorrhage. *Lancet* 2000. **356**: 1318-1321
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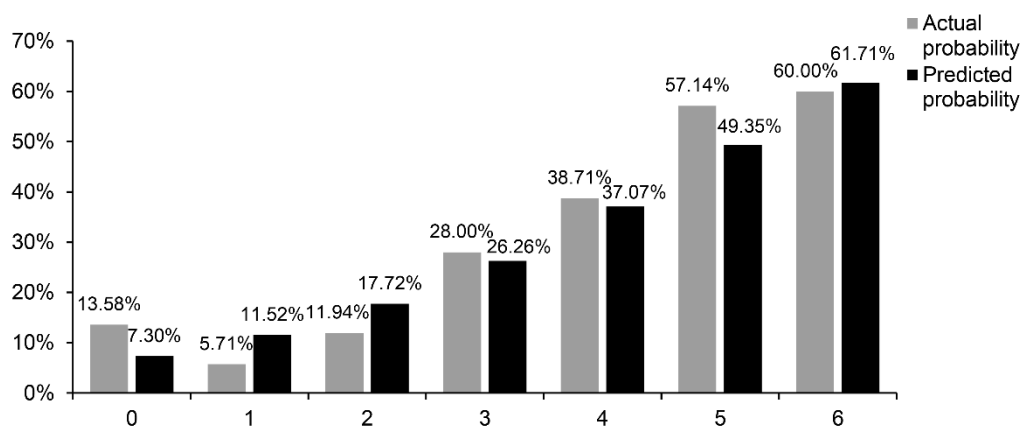
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A

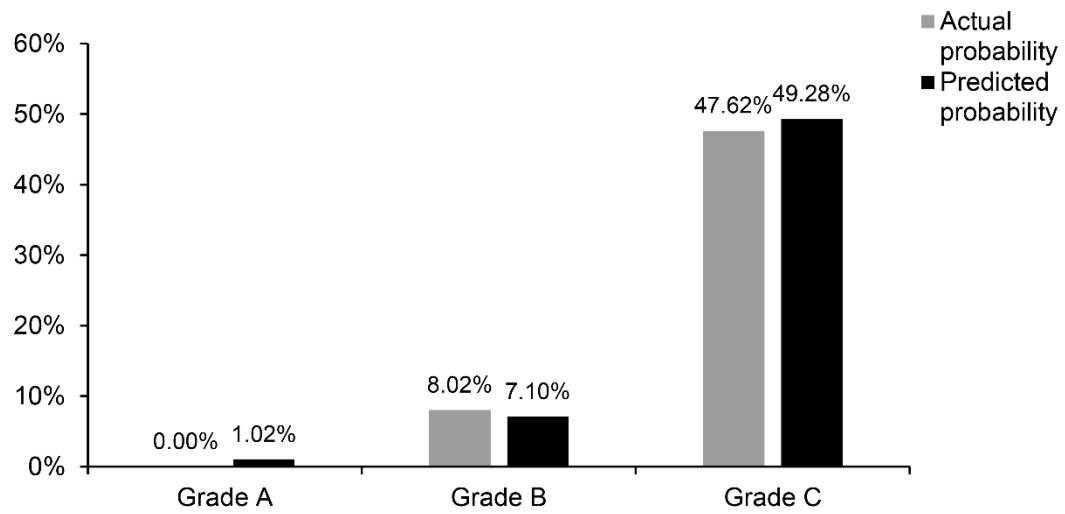


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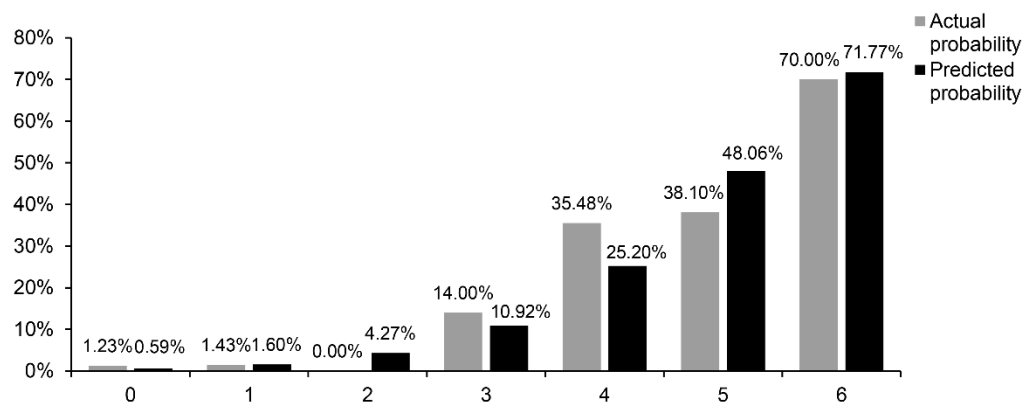


**Supplementary Figure 1 Graphical analysis of calibration for the CTP (A) and CRS (B) with regard to in-hospital rebleeding.**

A

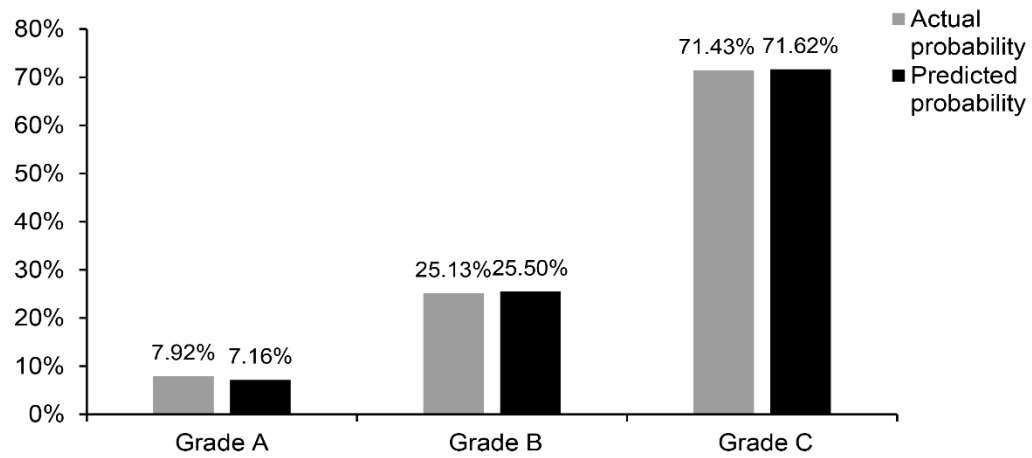


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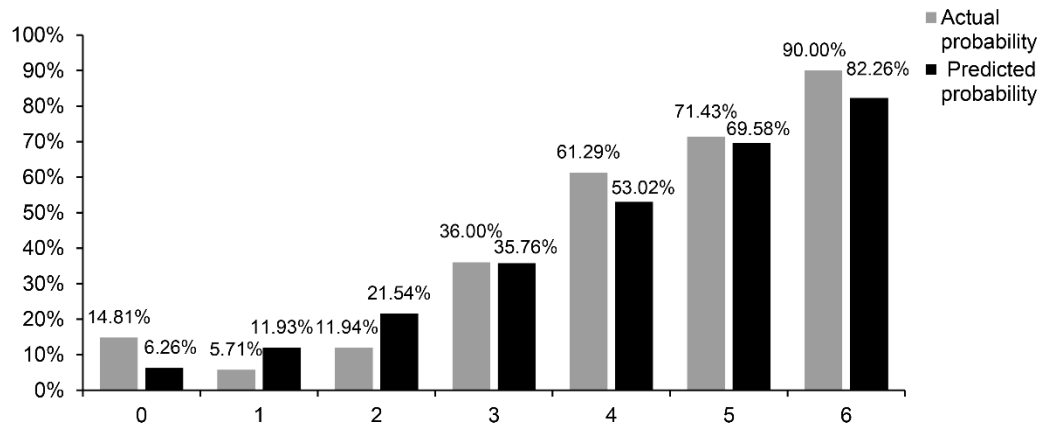


**Supplementary Figure 2 Graphical analysis of calibration for the CTP (A) and CRS (B) with regard to in-hospital mortality.**

A



B



**Supplementary Figure 3 Graphical analysis of calibration for the CTP (A) and CRS (B) with regard to in-hospital adverse outcomes.**