

Supplementary Online Content

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eFigure 1. European Society of Cardiology Risk Categories vs PESI Class

eFigure 2. European Society of Cardiology Risk Categories vs Simplified PESI Class

eFigure 3. European Society of Cardiology Risk Categories vs Bova Class

eFigure 4. PESI Class vs Simplified PESI Class

eFigure 5. Simplified PESI Class vs Bova Class

eTable. Differences in Predictive Model Discrimination

This supplementary material has been provided by the authors to give readers additional information about their work.

To compare the distribution of risk stratification between scoring systems, we present the following heat maps to help visualize how individual patients are risk stratified. Of note, only patients with complete data to compute both comparative risk scores are included in each heat map.

eFigure 1. European Society of Cardiology Risk Categories vs PESI Class

		<i>PESI Class</i>				
		I (=65)	II (66-85)	III (86-105)	IV (106-125)	V (125+)
<i>ESC Risk Category</i>	Low	10	13	11	6	10
	Intermediate-Low	16	16	18	13	26
	Intermediate-High	9	18	33	25	20
	High	1	2	0	6	32

eFigure 2. European Society of Cardiology Risk Categories vs Simplified PESI Class

		<i>sPESI Categories</i>	
		Low (0)	Not Low Risk (≥ 1)
<i>ESC Risk Category</i>	Low	19	33
	Intermediate-Low	26	67
	Intermediate-High	26	85
	High	0	46

eFigure 3. European Society of Cardiology Risk Categories vs Bova Class

		<i>BOVA Class</i>							
		1	2	3	SBP < 90		1	2	3 & SBP < 90
<i>ESC Risk Category</i>	Low	52	3	0	0		52	3	0
	Intermediate-Low	64	34	6	0		64	34	6
	Intermediate-High	11	61	69	0		11	61	69
	High	1	1	3	43		1	1	46

eFigure 4. PESI Class vs Simplified PESI Class

		<i>PESI Class</i>				
		I (≤ 65)	II (66-85)	III (86-105)	IV (106-125)	V (≥ 125)
<i>sPESI Category</i>	Low (0)	26	33	15	0	2
	Not Low (≥ 1)	13	22	50	56	97

eFigure 5. Simplified PESI Class vs Bova Class

sPESI Category		Bova Class							
		1	2	3	SBP < 90		1	2	3 & SBP < 90
sPESI Category	Low Risk (0)	48	22	0	0		48	22	0
	Not Low Risk (≥1)	61	66	59	40		61	66	99

eTable. Differences in Predictive Model Discrimination

	7-day Mortality Prediction		30-day Mortality Prediction	
	Mean AUC Difference	95% CI	Mean AUC Difference	95% CI
ESC vs. PESI	0.01	-0.12, 0.15	0.10	0.00, 0.20
ESC vs. sPESI	0.03	-0.10, 0.16	0.07	-0.03, 0.16
ESC vs. Bova (4 classes)	0.00	-0.08, 0.08	0.03	-0.08, 0.03
ESC vs. Bova (3 classes)	0.02	-0.11, 0.06	0.04	-0.10, 0.02
PESI vs. sPESI	0.01	-0.07, 0.09	0.04	-0.10, 0.03
PESI vs. Bova (4 classes)	0.01	-0.14, 0.11	0.13	0.02, 0.23
PESI vs. Bova (3 classes)	0.04	-0.16, 0.09	0.14	0.04, 0.25
sPESI vs. Bova (4 classes)	0.03	-0.08, 0.13	0.09	0.01, 0.17
sPESI vs. Bova (3 classes)	0.05	-0.05, 0.15	0.11	0.02, 0.19

Mean difference and 95% CI are presented for comparison between difference risk prediction scores for outcomes of 7- and 30-day mortality. Bova (4 classes) includes patients with systolic blood pressure <90mmHg as a separate class while Bova (3 classes) lumps patients with systolic blood pressure <90mmHg in with Class 3. AUC – area under the receiver-operator curve; ESC – European Society of Cardiology; PESI – Pulmonary Embolism Severity Index; sPESI – simplified PESI.