



**SUP. FIG. 1.** Distribution of RAR Values according to the Tertile groups. Histogram depicting the RAR values (tertile cutoffs at 4.21 and 5.32) (A). Boxplot of RAR by tertile group (median, IQR, and outliers) (B). RAR, red blood cell distribution width-albumin ratio.

**SUPPLEMENTARY TABLE 1.** Missing Variables and their Proportions.

Characteristics	Hiatus	Ratios
Height	990	42%
Weight	18	1%
Heart rate	5	0%
Respiratory rate	5	0%
Temperature	90	4%
SBP	18	1%
DBP	18	1%
MBP	5	0%
Platelet	1	0%
SpO <sub>2</sub>	5	0%
Other variables	0	0%
SBP, systolic blood pressure; DBP, diastolic blood pressure; MBP, mean blood pressure		

**SUPPLEMENTARY TABLE 2.** Comparison of the Variables Before and After Data Interpolation.

Characteristics	Before imputation	After imputation	p-value
Heart rate, beats/min	84.87 (75.36-97.17)	84.88 (75.34-97.11)	0.992
Respiratory rate, beats/min	19.47 (17.26-22.16)	19.48 (17.25-22.17)	0.96
Temperature, °C	36.79 (36.58-37.06)	36.79 (36.58-37.06)	0.7
SBP, mm Hg	113.84 (104.91-124.90)	113.75 (104.92-124.84)	0.954
DBP, mm Hg	60.07 (53.88-67.23)	60.12 (53.85-67.27)	0.959
MBP, mm Hg	75.00 (69.36-82.07)	75.00 (69.36-82.10)	0.96
Weight, Kg	78.05 (64.19-94.55)	78.20 (64.22-94.60)	0.969
Platelet, K/ $\mu$ L	194.67 (143.00-258.00)	194.78 (143.18-258.20)	0.909
SpO <sub>2</sub> , %	96.50 (94.87-97.94)	96.48 (94.84-97.93)	0.799
SBP, systolic blood pressure; DBP, diastolic blood pressure; MBP, mean blood pressure; Min, minimum.			

**SUPPLEMENTARY TABLE 3.** Association Between RAR and 1-Year, in-Hospital, and Intensive Care Unit All-Cause Mortality Events in the Pre-multiple Interpolation Dataset.

Categories	Model 3		
	HR (95% CI)	p-value	p for trend
1-year mortality			
Continuous variable per 1 unit	1.22 (1.17-1.28)	< 0.001	
RAR, group			< 0.001
G1 (n = 793)	Ref.		
G2 (n = 793)	1.33 (1.09-1.63)	0.005	
G3 (n = 793)	1.9 (1.55-2.32)	< 0.001	
Hospital mortality			
Continuous variable per 1 unit	1.14 (1.06-1.22)	0.001	
RAR, group			0.026
G1 (n = 793)	Ref.		
G2 (n = 793)	1.26 (0.89-1.8)	0.196	
G3 (n = 793)	1.47 (1.04-2.07)	0.027	
ICU mortality			
Continuous variable per 1 unit	1.11 (1-1.23)	0.042	
RAR, group			0.099
G1 (n = 793)	Ref.		
G2 (n = 793)	1.3 (0.83-2.02)	0.253	
G3 (n = 793)	1.45 (0.94-2.24)	0.091	

RAR, red blood cell distribution width-albumin ratio; ICU, Intensive Care Unit; HR, hazard ratio; CI, confidence interval; Ref, reference.

Model 3: adjusted for age, sex, ethnicity, weight, mean blood pressure, heart rate, respiratory rate, temperature, platelet level, neutrophils level, monocytes level, bicarbonate, anion gap, chloride, glucose, potassium levels, creatinine, blood urea nitrogen, SpO<sub>2</sub>, myocardial infarct, acute kidney injury, metastatic solid tumor, congestive heart failure, dementia, malignant cancer, anemia, hematological tumor, Simplified Acute Physiology Score II, Sequential Organ Failure Assessment score, Charlson comorbidity index, renal replacement therapy, Extracorporeal Membrane Oxygenation, vasopressor use.