

Tables S1. Unadjusted and adjusted logistic regression models of PNI and adverse hospitalization outcomes

Adverse hospitalization outcomes	Crude model OR (95%CI)	Model 1 OR (95%CI)	Model 2 OR (95%CI)
PNI	0.91 (0.89, 0.93)	0.91 (0.89, 0.93)	0.96 (0.93, 0.99)
PNI tertile			
Low tertile	1.00 (Ref)	1.00 (Ref)	1.00 (Ref)
Middle tertile	0.49 (0.26, 0.94)	0.48 (0.36, 0.64)	0.75 (0.50, 1.11)
High tertile	0.21 (0.09, 0.49)	0.21 (0.15, 0.30)	0.39 (0.23, 0.68)
<i>P</i> for trend	<0.0001	<0.0001	0.0014

Notes: Model 1 adjusted for sex, age, BMI, smoking status and aCCI; Model 2 further adjusted for comorbidities (including diabetes, hypertension, arrhythmia, congestive heart failure, chronic kidney disease and coronary artery disease), leukocytes, platelets, eosinophils, hemoglobin, blood urea nitrogen, serum sodium, serum potassium, serum calcium, total cholesterol, NT-proBNP, pH, PaCO₂, required NIMV, and aCCI.

Tables S2. The results of the two-piecewise linear regression model

	OR	95%CI	<i>P</i> value
Fitting model by standard linear regression	0.95	0.91 to 0.98	0.0013
Fitting model by two-piecewise linear regression			
The inflection point of PNI			
<42	0.88	0.83 to 0.93	<0.0001
≥42	1.03	0.97 to 1.08	0.3807
<i>P</i> for the log-likelihood ratio test		<0.001	

Adjusted: Sex, age, BMI, smoking status, comorbidities (including hypertension, diabetes, arrhythmia, congestive heart failure, chronic kidney disease and coronary artery disease), leukocytes, platelets, eosinophils, hemoglobin, blood urea nitrogen, serum sodium, serum potassium, serum calcium, total cholesterol, NT-proBNP, pH, PaCO₂, required NIMV, and aCCI.

Fig. S1 The relationship between PNI and adverse hospitalization outcomes. A nonlinear relationship was observed between the PNI and the adverse hospitalization outcomes after adjusting for sex, age, BMI, smoking status, comorbidities (including

hypertension, diabetes, arrhythmia, congestive heart failure, chronic kidney disease and coronary artery disease), leukocytes, PLT, Eos, Hb, BUN, TC, NT-proBNP, pH, PaCO₂, serum potassium, serum calcium, serum sodium, required NIMV, and aCCI.

