

SUPPLEMENTAL MATERIAL

Table S1. Formula of objective malnutrition screening tools (GNRI score).

Nutritional Indices	Risk of Malnutrition			
	Normal	Mild	Moderate	Severe
GNRI, points	> 98	92–98	82 to < 92	< 82
Formula	$1.489 \times \text{serum albumin (g/l)} + 41.7 \times (\text{current body weight [kg]}/\text{ideal body weight [kg]})^a$			

Abbreviation: GNRI, Geriatric Nutritional Risk Index.

^a Ideal body weight was specified as follows: height (cm) – 100 – ([height (cm) – 150]/2.5) for women; height (cm) – 100 – ([height (cm) – 150]/4) for men

Table S2. Degree of malnutrition risk according to GNRI score.

	Overall (n = 377)	Patients suffering post-stroke myocardial injury (n = 125)	Patients without post-stroke myocardial injury (n = 252)	<i>P</i> value
Any degree of malnutrition risk	203 (53.8)	89 (71.2)	114 (45.2)	0.002
Moderate-severe malnutrition risk	116 (30.8)	57 (45.6)	59 (23.4)	0.005

Values are expressed as n (%).

Abbreviation: GNRI, Geriatric Nutritional Risk Index.

Table S3 Association between GNRI score as continuous variable and post-stroke myocardial injury.

Variables	Univariate analysis		Multivariate analysis	
	OR (95% CI)	<i>P</i> value	OR (95% CI)	<i>P</i> value
GNRI score	0.92 (0.89–0.96)	< 0.001	0.91 (0.88–0.95)	0.023
Age	1.01 (1.00–1.03)	0.129		
Sex (male vs female)	1.85 (1.18–2.88)	0.007	1.73 (1.05–2.85)	0.033
Height	1.02 (0.99–1.05)	0.180		
Weight	1.00 (0.98–1.02)	0.724		
BMI	0.96 (0.90–1.02)	0.181		
SBP	1.01 (1.00–1.02)	0.125		
DBP	1.00 (0.98–1.02)	0.774		
Cigarette-smoking (Yes vs No)	0.96 (0.61–1.52)	0.855		
Alcohol (Yes vs No)	1.23 (0.77–1.96)	0.393		
Hypertension (Yes vs No)	2.05 (1.32–3.19)	0.001	2.02 (1.22–3.34)	0.006
Diabetes mellitus (Yes vs No)	3.26 (2.03–5.21)	< 0.001	2.65 (1.51–4.64)	< 0.001
COPD (Yes vs No)	0.56 (0.18–1.74)	0.319		
Peripheral vascular disease (Yes vs No)	1.20 (0.71–2.02)	0.503		
Renal dysfunction (Yes vs No)	0.67 (0.13–3.35)	0.623		
Admission NIHSS score	1.10 (1.03–1.18)	0.007	1.03 (0.93–1.14)	0.551
Admission GCS score	0.96 (0.88–1.05)	0.390		
Dysphagia (Yes vs No)	1.01 (0.56–1.81)	0.975		
TOAST stroke subtype				
Large-artery atherosclerosis	reference			
Small-vessel occlusion	0.77 (0.29–2.06)	0.601		
Stroke of other determined etiologies	1.31 (0.67–2.56)	0.436		
Stroke of undetermined etiology	1.16 (0.72–1.87)	0.547		
OCSF stroke subtype				
Lacunar infarct	reference			
Partial anterior circulation infarct	1.50 (0.56–4.03)	0.421		
Total anterior circulation infarct	1.40 (0.50–3.86)	0.520		
Posterior circulation infarct	1.37 (0.49–3.82)	0.545		
Intravenous thrombolysis (Yes vs No)	1.51 (0.71–3.19)	0.281		
Endovascular treatment (Yes vs No)	1.10 (0.40–3.06)	0.848		
Hemoglobin	1.00 (0.98–1.01)	0.494		
Albumin	0.93 (0.88–0.98)	0.008	0.93 (0.88–0.99)	0.025
Blood glucose	1.21 (1.09–1.35)	< 0.001	1.09 (0.96–1.24)	0.189
Triglycerides	1.29 (1.01–1.65)	0.047	1.01 (0.70–1.45)	0.954
Total cholesterol	1.13 (0.91–1.39)	0.269		
HDL-C	0.16 (0.07–0.35)	< 0.001	0.25 (0.10–0.64)	0.004
LDL-C	1.25 (0.98–1.61)	0.077		

Abbreviations: GNRI, Geriatric Nutritional Risk Index; OR, odds ratio; CI, confidence interval; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; COPD, chronic obstructive pulmonary disease; NIHSS, National Institutes of Health Stroke Scale; GCS, Glasgow Coma Scale; TOAST, Trial of Org 10172 in Acute Stroke Treatment; OCSP, Oxfordshire Community Stroke Project; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol.

Table S4 Univariate and multivariate logistic regression analyses for post-stroke myocardial injury in Model 5.

Variables	Univariate analysis		Multivariate analysis	
	OR (95% CI)	<i>P</i> value	OR (95% CI)	<i>P</i> value
GNRI score (Low vs High)	2.74 (1.74–4.33)	< 0.001	3.25 (1.93–5.48)	< 0.001
Age	1.01 (1.00–1.03)	0.129		
Sex (male vs female)	1.85 (1.18–2.88)	0.007	1.72 (1.04–2.83)	0.034
Height	1.02 (0.99–1.05)	0.180		
Weight	1.00 (0.98–1.02)	0.724		
BMI	0.96 (0.90–1.02)	0.181		
SBP	1.01 (1.00–1.02)	0.125		
DBP	1.00 (0.98–1.02)	0.774		
Cigarette-smoking (Yes vs No)	0.96 (0.61–1.52)	0.855		
Alcohol (Yes vs No)	1.23 (0.77–1.96)	0.393		
Hypertension (Yes vs No)	2.05 (1.32–3.19)	0.001	2.01 (1.22–3.32)	0.006
Diabetes mellitus (Yes vs No)	3.26 (2.03–5.21)	< 0.001	2.64 (1.50–4.62)	< 0.001
COPD (Yes vs No)	0.56 (0.18–1.74)	0.319		
Peripheral vascular disease (Yes vs No)	1.20 (0.71–2.02)	0.503		
Renal dysfunction (Yes vs No)	0.67 (0.13–3.35)	0.623		
Admission NIHSS score	1.10 (1.03–1.18)	0.007	1.03 (0.93–1.14)	0.560
Admission GCS score	0.96 (0.88–1.05)	0.390		
Dysphagia (Yes vs No)	1.01 (0.56–1.81)	0.975		
TOAST stroke subtype				
Large-artery atherosclerosis	reference			
Small-vessel occlusion	1.50 (0.56–4.03)	0.421		
Stroke of other determined etiologies	1.40 (0.50–3.86)	0.520		
Stroke of undetermined etiology	1.37 (0.49–3.82)	0.545		
OCSF stroke subtype				
Lacunar infarct	reference			
Partial anterior circulation infarct	1.50 (0.56–4.03)	0.421		
Total anterior circulation infarct	1.40 (0.50–3.86)	0.520		
Posterior circulation infarct	1.37 (0.49–3.82)	0.545		
Intravenous thrombolysis (Yes vs No)	1.51 (0.71–3.19)	0.281		
Endovascular treatment (Yes vs No)	1.10 (0.40–3.06)	0.848		
Hemoglobin	1.00 (0.98–1.01)	0.494		
Albumin	0.93 (0.88–0.98)	0.008	0.93 (0.88–0.99)	0.016
Blood glucose	1.21 (1.09–1.35)	< 0.001	1.09 (0.96–1.24)	0.204
Triglycerides	1.29 (1.01–1.65)	0.047	1.04 (0.72–1.49)	0.848
Total cholesterol	1.13 (0.91–1.39)	0.269		
HDL-C	0.16 (0.07–0.35)	< 0.001	0.27 (0.11–0.69)	0.006
LDL-C	1.25 (0.98–1.61)	0.077		

Abbreviations: GNRI, Geriatric Nutritional Risk Index; OR, odds ratio; CI, confidence interval; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; COPD, chronic obstructive pulmonary disease; NIHSS, National Institutes of Health Stroke Scale; GCS, Glasgow Coma Scale; TOAST, Trial of Org 10172 in Acute Stroke Treatment; OCSF, Oxfordshire Community Stroke Project; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol.

Table S5 Univariate logistic regression analysis for post-stroke myocardial injury in the Model PSM.

Variables	Univariate analysis	
	OR (95% CI)	<i>P</i> value
GNRI score (Low vs High)	3.59 (1.93–6.67)	< 0.001
Age	1.02 (1.00–1.04)	0.082
Sex (male vs female)	1.97 (1.09–3.57)	0.025
Height	1.03 (0.99–1.07)	0.211
Weight	1.01 (0.99–1.04)	0.334
BMI	1.02 (0.93–1.11)	0.727
SBP	1.01 (0.99–1.02)	0.351
DBP	1.00 (0.97–1.03)	0.988
Cigarette-smoking (Yes vs No)	0.89 (0.47–1.68)	0.714
Alcohol (Yes vs No)	1.38 (0.71–2.71)	0.344
Hypertension (Yes vs No)	1.80 (1.00–3.24)	0.050
Diabetes mellitus (Yes vs No)	3.18 (1.66–6.09)	< 0.001
COPD (Yes vs No)	0.62 (0.12–3.14)	0.562
Peripheral vascular disease (Yes vs No)	1.23 (0.60–2.53)	0.578
Renal dysfunction (Yes vs No)	0.62 (0.06–6.10)	0.685
Admission NIHSS score	1.17 (1.05–1.30)	0.004
Admission GCS score	0.96 (0.85–1.09)	0.562
Dysphagia (Yes vs No)	1.40 (0.63–3.13)	0.412
TOAST stroke subtype		
Large-artery atherosclerosis	reference	
Small-vessel occlusion	0.56 (0.14–2.16)	0.396
Stroke of other determined etiologies	1.36 (0.57–3.22)	0.487
Stroke of undetermined etiology	1.19 (0.62–2.29)	0.606
OCSF stroke subtype		
Lacunar infarct	reference	
Partial anterior circulation infarct	2.47 (0.64–9.53)	0.190
Total anterior circulation infarct	1.78 (0.43–7.28)	0.424
Posterior circulation infarct	1.69 (0.42–6.82)	0.459
Intravenous thrombolysis (Yes vs No)	2.82 (0.86–9.25)	0.087
Endovascular treatment (Yes vs No)	1.08 (0.31–3.83)	0.902
Hemoglobin	0.99 (0.97–1.00)	0.056
Albumin	0.90 (0.83–0.97)	0.004
Blood glucose	1.19 (1.02–1.40)	0.030
Triglycerides	1.42 (0.96–2.11)	0.078
Total cholesterol	1.16 (0.86–1.56)	0.326
HDL-C	0.13 (0.04–0.39)	< 0.001
LDL-C	1.42 (0.98–2.04)	0.061

Abbreviations: GNRI, Geriatric Nutritional Risk Index; PSM, propensity score matching; OR, odds ratio; CI, confidence interval; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; COPD, chronic obstructive pulmonary disease; NIHSS, National Institutes of Health Stroke Scale; GCS, Glasgow Coma Scale; TOAST, Trial of Org 10172 in Acute Stroke Treatment; OCSF, Oxfordshire Community Stroke Project; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol.