Supplementary Table 7. Quartile-based multivariable logistic regression for prolonged length of stay

Variable	Q2 vs. Q1	Q3 vs. Q1	Q4 vs. Q1
Age (per 10 years)	1.02 (0.96–1.08)	1.05 (0.99–1.11)	1.04 (0.97–1.11)
Sex, male	1.06 (0.91–1.24)	1.10 (0.94–1.28)	1.13 (0.95–1.35)
Initial NIHSS	1.02 (1.00–1.04)[a]	1.07 (1.05–1.09)[a]	1.14 (1.12–1.16)[a]
Hypertension	1.14 (0.99–1.31)	1.17 (1.01–1.35)	1.06 (0.89–1.25)
Diabetes mellitus	1.05 (0.89–1.23)	1.07 (0.91–1.26)	1.01 (0.84–1.21)
Atrial fibrillation	1.38 (1.06–1.79)[a]	0.97 (0.75–1.26)	0.98 (0.74–1.30)
Previous stroke	0.83 (0.69–0.99)[a]	1.10 (0.93–1.31)	1.13 (0.94–1.37)
Coronary heart disease	1.01 (0.81–1.27)	1.17 (0.94–1.46)	1.42 (1.12–1.79)[a]
Current smoker	1.12 (0.95–1.33)	1.15 (0.96–1.37)	1.07 (0.88–1.30)
Premorbid mRS	1.10 (1.01–1.19)[a]	1.07 (0.99–1.16)	1.16 (1.06–1.26)[a]
Systolic BP (per 10 mmHg)	1.00 (0.96–1.03)	1.05 (1.02–1.09)[a]	1.06 (1.02–1.10)[a]
Diastolic BP (per 10 mmHg)	0.99 (0.93–1.05)	0.93 (0.87–0.98)[a]	0.96 (0.90–1.02)
Initial glucose (per 10 mg/dL)	1.00 (0.99–1.01)	1.01 (1.00–1.03)[a]	1.02 (1.01–1.04)[a]
Triglycerides (per 10 mg/dL)	1.00 (0.99–1.01)	1.00 (0.99–1.01)	0.99 (0.98–1.00)
HDL cholesterol (mg/dL)	1.00 (1.00–1.01)	1.01 (1.00–1.01)	1.00 (1.00–1.01)
LDL cholesterol (per 10 mg/dL)	1.03 (1.01–1.05)[a]	1.02 (1.00–1.05)	1.03 (1.01–1.05)[a]
Hemoglobin (g/dL)	0.99 (0.95–1.03)	0.98 (0.94–1.02)	0.92 (0.88–0.96)[a]
Platelets (per 10 $\times 10^3$/μL)	1.00 (0.99–1.01)	1.00 (0.99–1.01)	1.00 (0.99–1.01)
Creatinine (mg/dL)	0.98 (0.89–1.08)	0.93 (0.83–1.04)	1.03 (0.94–1.13)
WBC ($\times 10^3$/μL)	0.99 (0.97–1.02)	1.00 (0.98–1.03)	1.05 (1.02–1.08)[a]
PT (INR)	0.86 (0.65–1.13)	1.01 (0.80–1.29)	1.10 (0.86–1.41)
IV thrombolysis	1.20 (0.92–1.55)	1.13 (0.87–1.46)	0.82 (0.62–1.08)
IA thrombectomy	0.96 (0.73–1.24)	0.97 (0.75–1.25)	1.24 (0.96–1.59)
Relevant large artery steno-occlusion	1.01 (0.87–1.19)	1.16 (0.99–1.36)	1.29 (1.09–1.53)[a]
TOAST: LAA (vs. SVO)	1.57 (1.29–1.92)[a]	2.40 (1.93–2.99)[a]	2.74 (2.10–3.57)[a]
TOAST: CE (vs. SVO)	1.36 (1.03–1.81)[a]	2.53 (1.89–3.40)[a]	2.79 (1.98–3.93)[a]
TOAST: Other determined (vs. SVO)	1.02 (0.76–1.37)	2.29 (1.69–3.09)[a]	4.12 (2.94–5.75)[a]
TOAST: Undetermined (vs. SVO)	1.20 (0.97–1.50)	2.17 (1.71–2.76)[a]	2.23 (1.67–2.99)[a]

Three separate multivariable logistic models were fitted, each comparing one of the upper quartiles (Q2, Q3, or Q4) with Q1 as reference; each model includes the full covariate set of the main analysis (25 admission-level variables and TOAST classification).
NIHSS, National Institutes of Health Stroke Scale; mRS, modified Rankin Scale; BP, blood pressure; HDL, high-density lipoprotein; LDL, low-density lipoprotein; WBC, white blood cell count; PT, prothrombin time; INR, international normalized ratio; IV, intravenous; IA, intra-arterial; TOAST, Trial of Org 10172 in Acute Stroke Treatment; LAA, large artery atherosclerosis; SVO, small vessel occlusion; CE, cardioembolism.
[a] $p<0.05$.