

Supplementary Table 4. Baseline characteristics of the study subjects

Characteristics	Total (n=2,606)	90-day mRS ≤2 (n=1,613)	90-day mRS >2 (n=993)	P	#NA
Age (yr)	70 (61–76)	67 (58–74)	73 (66–79)	<0.001	1
Male sex	1,574 (60.40)	1,045 (64.79)	529 (53.27)	<0.001	0
Hypertension	1,748 (67.08)	1,078 (66.83)	670 (67.47)	0.768	0
Diabetes	735 (28.20)	434 (26.91)	301 (30.31)	0.071	3
Hyperlipidemia	1,001 (38.41)	722 (44.76)	279 (28.10)	<0.001	5
Current smoking status	906 (34.77)	601 (37.26)	305 (30.72)	<0.001	2
Previous stroke including TIA	212 (8.14)	142 (8.80)	70 (7.05)	0.129	0
BMI (kg/m ²)	23.5 (21.48–25.51)	23.71 (21.92–25.78)	23.12 (20.83–24.98)	<0.001	88
SBP (mm Hg)	140 (130–160)	142 (130–160)	140 (120–160)	<0.001	4
DBP (mm Hg)	86 (79–100)	88 (80–100)	83.5 (71–95)	<0.001	3
Hematocrit (%)	40.4 (37.2–43.7)	41.1 (37.8–44.2)	39.4 (36.1–42.6)	<0.001	13
Hemoglobin (g/dL)	13.8 (12.6–15)	14 (12.9–15.2)	13.4 (12.2–14.7)	<0.001	3
Glucose (mg/dL)	126 (108–159)	123 (106–154)	132 (111–166)	<0.001	6
Creatinine (mg/dL)	0.83 (0.7–1.01)	0.86 (0.7–1.02)	0.8 (0.7–1)	0.041	3
Total cholesterol (mg/dL)	176.5 (149–204.25)	177 (149–206)	175 (149–203)	0.266	14
HDL-C (mg/dL)	47 (38–56)	47 (38–56)	47 (38–57)	0.881	86
LDL-C (mg/dL)	112 (86–137)	112 (86–137)	111 (87–135.5)	0.512	71
Admission NIHSS	5 (2–10)	3 (1–6)	10 (5–15)	<0.001	0
Duration between stroke onset and admission	4.04 (1.82–10.6)	4.32 (1.78–11.35)	3.83 (1.85–9.27)	0.089	0
Reperfusion therapy	988 (37.02)	471 (28.32)	517 (51.39)	<0.001	0
Risk of cardiac embolic sources	247 (9.48)	151 (9.36)	96 (9.67)	0.849	0
TOAST classification				<0.001	8
LAA	675 (25.90)	397 (24.61)	278 (28.00)		
CE	768 (29.47)	405 (25.11)	363 (36.56)		
SVO	494 (18.96)	395 (24.49)	99 (9.97)		
OE	63 (2.42)	45 (2.79)	18 (1.81)		
UE	598 (22.95)	365 (22.63)	233 (23.46)		

Baseline characteristics of the study subjects, stratified by 90-day functional status (90-day mRS score >2 or not). Values are expressed as numbers (%) or medians (interquartile ranges). Statistical tests were conducted using the Wilcoxon signed-rank test for continuous variables, the chi-square test for binary categorical variables, and Fisher's exact test for multiple categorical variables. #NA column provides the actual numbers of each variable for missing data. mRS, modified Rankin Scale; TIA, transient ischemic attack; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; NIHSS, National Institutes of Health Stroke Scale; TOAST, Trial of ORG 10172 in Acute Stroke Treatment; LAA, large-artery atherosclerosis; CE, cardioembolism; SVO, small-vessel occlusion; OE, other determined etiology; UE, undetermined etiology.

Supplementary Table 5. Average classification performance of the time-based CV

	Clinical	b1000	ADC	FLAIR	Ensemble
AUC	0.745	0.728	0.694	0.669	0.779
F1	0.609	0.597	0.570	0.559	0.642
SEN	0.683	0.589	0.638	0.637	0.693
SPE	0.658	0.767	0.641	0.614	0.716
PPV	0.564	0.610	0.521	0.506	0.607
NPV	0.777	0.755	0.747	0.740	0.796

Average classification performance of the time-based 5-fold CV. The following metrics were reported for each model: AUC, F1 score, SEN, SPE, PPV, and NPV.

CV, cross-validation; AUC, area under the curve; SEN, sensitivity; SPE, specificity; PPV, positive predictive value; NPV, negative predictive value.