Supplementary Table 1. Baseline characteristics by SO_2 quartiles (n=27,340)

Variable	1st quartile	2nd quartile	3rd quartile	4th quartile	*P*
Age (yr)	67.2±12.9	67.0±13.0	66.4±12.8	66.1±12.9	<0.001
Male sex	4,380 (64.1)	4,320 (63.2)	4,364 (63.8)	4,342 (63.5)	0.730
Hypertension	4,343 (63.5)	4,352 (63.7)	4,373 (64.0)	4,389 (64.2)	0.845
Diabetes mellitus	2,130 (31.2)	2,073 (30.3)	2,140 (31.3)	2,151 (31.5)	0.480
Dyslipidemia	1,944 (28.4)	2,126 (31.1)	2,071 (30.3)	2,156 (31.5)	<0.001
Atrial fibrillation	1,065 (15.6)	1,141 (16.7)	1,111 (16.3)	1,181 (17.3)	0.054
Coronary heart disease	584 (8.5)	559 (8.2)	565 (8.3)	575 (8.4)	0.874
Current smoker	1,736 (25.4)	1,731 (25.3)	1,804 (26.4)	1,890 (27.7)	0.006
Previous stroke or TIA	1,115 (16.3)	1,041 (15.2)	1,075 (15.7)	1,165 (17.0)	0.026
Onset-to-arrival (hr)	9.5 (2.3–33.6)	9.3 (2.2–36.3)	10.4 (2.4–36.7)	9.5 (2.3–36.7)	0.121
NIHSS at admission	2.0 (1.0–4.0)	2.0 (1.0–5.0)	2.0 (1.0–5.0)	2.0 (1.0–5.0)	<0.001
Stroke subtype (TOAST)					<0.001
Large artery atherosclerosis	2,341 (34.3)	2,407 (35.2)	2,316 (33.9)	2,376 (34.8)	
Small vessel occlusion	1,569 (23.0)	1,533 (22.4)	1,619 (23.7)	1,608 (23.5)	
Cardioembolism	1,079 (15.8)	1,207 (17.7)	1,180 (17.3)	1,263 (18.5)	
Other determined	202 (3.0)	249 (3.6)	224 (3.3)	211 (3.1)	
Undetermined	1,644 (24.1)	1,439 (21.1)	1,496 (21.9)	1,377 (20.1)	
Symptomatic steno-occlusion of the relevant artery	2,585 (37.8)	2,667 (39.0)	2,615 (38.3)	2,523 (36.9)	0.081
Discharge antiplatelet	5,762 (84.3)	5,589 (81.8)	5,594 (81.8)	5,582 (81.7)	<0.001
Discharge anticoagulant	1,178 (17.2)	1,291 (18.9)	1,270 (18.6)	1,313 (19.2)	0.017
Statin at discharge	6,435 (94.1)	6,325 (92.5)	6,216 (90.9)	6,321 (92.5)	<0.001
IVT	659 (9.6)	791 (11.6)	746 (10.9)	859 (12.6)	<0.001
EVT	471 (6.9)	487 (7.1)	398 (5.8)	368 (5.4)	<0.001
Initial fasting glucose (mg/dL)	143.7±62.2	143.5±63.1	143.8±62.9	143.3±60.9	0.991
Initial SBP (mm Hg)	147.7±26.9	148.8±27.5	147.5±26.8	149.3±27.6	<0.001
GRDP per capita (thousands KRW)	34,367±26,761	35,634±30,210	34,396±31,335	35,946±36,028	<0.001
Marriage rate (%)	56.1±3.0	56.4±3.3	56.5±3.5	56.2±4.0	<0.001
High education rate (%)	48.5±10.5	48.0±10.6	47.8±11.4	48.1±10.8	<0.001
Working population rate (%)	58.4±3.5	58.3±3.5	58.3±3.3	57.9±3.5	<0.001
Green area proportion (%)	71.3±15.7	68.3±18.1	67.3±18.5	62.2±21.1	<0.001
Mean temperature (°C)	16.6±6.7	13.5±8.3	13.6±8.1	9.5±8.0	<0.001
Mean relative humidity (%)	72.2±7.1	69.5±6.3	67.8±7.7	64.2±6.3	<0.001
Mean atmospheric pressure (hPa)	1,003.4±5.7	1,005.7±6.2	1,005.1±6.0	1,007.0±5.2	<0.001
mRS at discharge	1.0 (1.0–2.0)	1.0 (1.0–2.0)	1.0 (1.0–2.0)	1.0 (1.0–2.0)	0.531
Discharge mRS 0–1	3,882 (56.8)	3,785 (55.4)	3,808 (55.7)	3,794 (55.5)	0.324

Values are mean±SD, n (%), or median (IQR). *P*-values from chi-squared test for categorical variables and ANOVA or Kruskal-Wallis test for continuous variables.

SO_2, sulfur dioxide; TIA, transient ischemic attack; NIHSS, National Institutes of Health Stroke Scale; TOAST, Trial of Org 10172 in Acute Stroke Treatment; IVT, intravenous thrombolysis; EVT, endovascular thrombectomy; SBP, systolic blood pressure; GRDP, gross regional domestic product; KRW, Korean won; mRS, modified Rankin Scale; SD, standard deviation; IQR, interquartile range; ANOVA, analysis of variance.