Supplementary Table 2. Baseline characteristics by NO_2 quartiles (n=27,340)

Variable	1st quartile	2nd quartile	3rd quartile	4th quartile	*P*
Age (yr)	66.9±12.8	66.9±12.8	66.6±12.8	66.3±13.2	0.020
Male sex	4,369 (63.9)	4,327 (63.3)	4,303 (63.0)	4,407 (64.5)	0.260
Hypertension	4,297 (62.9)	4,278 (62.6)	4,234 (61.9)	4,648 (68.0)	<0.001
Diabetes mellitus	2,133 (31.2)	2,025 (29.6)	2,126 (31.1)	2,210 (32.3)	0.008
Dyslipidemia	1,942 (28.4)	1,844 (27.0)	1,831 (26.8)	2,680 (39.2)	<0.001
Atrial fibrillation	1,047 (15.3)	1,163 (17.0)	1,146 (16.8)	1,142 (16.7)	0.032
Coronary heart disease	603 (8.8)	547 (8.0)	576 (8.4)	557 (8.1)	0.323
Current smoker	1,806 (26.4)	1,763 (25.8)	1,745 (25.5)	1,847 (27.0)	0.192
Previous stroke or TIA	1,064 (15.6)	1,063 (15.6)	1,103 (16.1)	1,166 (17.1)	0.055
Onset-to-arrival (hr)	9.6 (2.5–34.3)	8.9 (2.3–34.0)	9.1 (2.2–32.9)	11.5 (2.3–41.8)	0.002
NIHSS at admission	2.0 (1.0–5.0)	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	2,300 (33.7)	2,339 (34.2)	2,363 (34.6)	2,438 (35.7)	
Small vessel occlusion	1,525 (22.3)	1,551 (22.7)	1,526 (22.3)	1,727 (25.3)	
Cardioembolism	1,081 (15.8)	1,211 (17.7)	1,256 (18.4)	1,181 (17.3)	
Other determined	253 (3.7)	183 (2.7)	219 (3.2)	231 (3.4)	
Undetermined	1,676 (24.5)	1,551 (22.7)	1,471 (21.5)	1,258 (18.4)	
Symptomatic steno-occlusion of the relevant artery	2,642 (38.7)	2,716 (39.7)	2,661 (38.9)	2,371 (34.7)	<0.001
Discharge antiplatelet	5,738 (84.0)	5,560 (81.3)	5,560 (81.3)	5,669 (82.9)	<0.001
Discharge anticoagulant	1,186 (17.4)	1,273 (18.6)	1,323 (19.4)	1,270 (18.6)	0.024
Statin at discharge	6,350 (92.9)	6,275 (91.8)	6,289 (92.0)	6,383 (93.4)	<0.001
IVT	735 (10.8)	794 (11.6)	812 (11.9)	714 (10.4)	0.022
EVT	448 (6.6)	460 (6.7)	443 (6.5)	373 (5.5)	0.009
Initial fasting glucose (mg/dL)	143.3±61.1	142.5±61.1	144.3±63.6	144.2±63.2	0.531
Initial SBP (mm Hg)	146.6±27.1	147.7±27.3	147.4±26.7	151.6±27.4	<0.001
GRDP per capita (thousands KRW)	34,584±19,519	35,740±28,994	34,308±26,949	35,710±44,285	<0.001
Marriage rate (%)	56.6±3.2	56.4±3.4	56.4±3.5	55.8±3.6	<0.001
High education rate (%)	45.1±10.5	46.0±10.5	47.1±10.8	54.2±9.1	<0.001
Working population rate (%)	57.9±3.8	57.8±3.7	57.8±3.5	59.4±2.3	<0.001
Green area proportion (%)	70.0±17.2	66.9±18.8	66.9±18.7	65.3±19.9	<0.001
Mean temperature (°C)	20.6±4.7	14.9±6.9	10.0±7.3	7.6±6.9	<0.001
Mean relative humidity (%)	74.8±6.4	68.8±6.3	65.5±6.9	64.6±5.6	<0.001
Mean atmospheric pressure (hPa)	1,000.6±4.4	1,004.8±5.8	1,007.6±5.5	1,008.3±4.5	<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)	<0.001
Discharge mRS 0–1	3,688 (54.0)	3,823 (55.9)	3,820 (55.9)	3,938 (57.6)	<0.001

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.

NO_2, nitrogen 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.

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