

Appendix Table 1. Summary of patient characteristics.

	Overall	Overall Significance
Total Patients with Ischemic Stroke on Admission	9479	
Age	54 (46–64)	
<i>Male</i>	53 (45–61)	
<i>Female</i>	63 (51–73)	
Sex		
<i>Male (%)</i>	7589 (80.1%)	
<i>Female (%)</i>	1890 (19.9%)	
Risk Factors		
Diabetes		
<i>Age</i>		<.001*
No Diabetes on Admission (%)	2359 (24.9%)	
<i>Age</i>	47 (40–58)	
<i>Admission NIHSS</i>	3 (1–8)	
<i>mRS at 90 days</i>	1 (0–3)	
<i>HbA1C</i>	5.4 (5.1–5.6)	
Diabetes on Admission (%)	4628 (48.8%)	
<i>Age</i>	59 (51–68)	
<i>Admission NIHSS</i>	3 (2–6)	
<i>mRS at 90 days</i>	1 (0–3)	
<i>Prior Antidiabetic Therapy</i>	2731 (28.8%)	
<i>HbA1C</i>	8.5 (7.0–10.4)	
Undiagnosed Diabetes on Admission (%)	925 (9.8%)	
<i>Age</i>	51 (44–58)	
<i>Admission NIHSS</i>	4 (2–7)	
<i>mRS at 90 days</i>	1 (0–3)	
<i>HbA1C</i>	6.2 (5.9–7.2)	
Pre-diabetes on Admission (%)	1567 (16.5%)	
<i>Age</i>	50 (44–59)	

	<i>Admission NIHSS</i>	3 (2–7)	
	<i>mRS at 90 days</i>	1 (0–3)	
	<i>HbA1C</i>	5.9 (5.8–6.1)	
Hypertension			
	<i>Age</i>		<.001*
No Hypertension on Admission (%)		2567 (27.1%)	
	<i>Age</i>	48 (40–57)	
	<i>Admission NIHSS</i>	4 (2–8)	
	<i>mRS at 90 days</i>	1 (0–3)	
Hypertension on Admission (%)		5791 (61.1%)	
	<i>Age</i>	58 (49–67)	
	<i>Admission NIHSS</i>	3 (1–6)	
	<i>mRS at 90 days</i>	1 (0–3)	
	<i>Prior Antihypertensive Therapy (%)</i>	3306 (34.9%)	
Undiagnosed Hypertension on Admission (%)		1121 (11.8%)	
	<i>Age</i>	50 (44–58)	
	<i>Admission NIHSS</i>	3 (2–6)	
	<i>mRS at 90 days</i>	1 (0–3)	
Dyslipidemia			
	<i>Age</i>		<.001*
No Dyslipidemia on Admission (%)		5106 (53.9%)	
	<i>Age</i>	53 (44–63)	
	<i>Admission NIHSS</i>	4 (2–7)	
	<i>mRS at 90 days</i>	1 (0–3)	
	<i>LDL-C</i>	2.60 (2.08–3.10)	
	<i>HDL-C</i>	0.98 (0.80–1.13)	
Dyslipidemia on Admission (%)		1883 (19.9%)	
	<i>Age</i>	62 (54–71)	
	<i>Admission NIHSS</i>	3 (1–6)	
	<i>mRS at 90 days</i>	2 (0–3)	

<i>Prior Statin Therapy</i>	2274 (24.0%)
<i>LDL-C</i>	2.40 (1.70–3.40)
<i>HDL-C</i>	1.00 (0.82–1.20)
Undiagnosed Dyslipidemia on Admission	2490 (26.3%)
<i>Age</i>	51 (44–58)
<i>Admission NIHSS</i>	3 (2–6)
<i>mRS at 90 days</i>	1 (0–2)
<i>LDL-C</i>	3.90 (3.50–4.40)
<i>HDL-C</i>	1.00 (0.88–1.20)

Values are reported as median (IQR) unless indicated otherwise.

* $p \leq 0.05$; p-values calculated using Kruskal-Wallis H Test.

Abbreviations: mRS, modified Rankin scale.

Appendix Table 2. Proportion of ischemic stroke subtypes between diabetic, hypertensive, and dyslipidemia patients.

Admission TOAST classification	No Diabetes (n=2359)	Diabetes (n=4628)	Undiagnosed Diabetes (n=2492)	Overall Significance¹
<i>Total</i>				<.001*
<i>Small Vessel Disease</i>	1031 (43.7%)	2237 (48.3%)	1156 (46.4%)	
<i>Large Vessel Disease</i>	423 (17.9%)	954 (20.6%)	543 (21.8%)	
<i>Cardio Embolic</i>	508 (21.5%)	948 (20.5%)	478 (19.2%)	
<i>Stroke of Determined Origin</i>	227 (9.6%)	285 (6.2%)	172 (6.9%)	
<i>Stroke of Unknown Origin</i>	170 (7.2%)	204 (4.4%)	143 (5.7%)	
	No Hypertension (n=2567)	Hypertension (n=5791)	Undiagnosed Hypertension (n=1121)	
<i>Total</i>				<.001*
<i>Small Vessel Disease</i>	946 (36.9%)	2907 (50.2%)	571 (50.9%)	
<i>Large Vessel Disease</i>	576 (22.4%)	1128 (19.5%)	216 (19.3%)	
<i>Cardio Embolic</i>	611 (23.8%)	1157 (20.0%)	166 (14.8%)	
<i>Stroke of Determined Origin</i>	237 (9.2%)	352 (6.1%)	95 (8.5%)	
<i>Stroke of Unknown Origin</i>	197 (7.7%)	247 (4.3%)	73 (6.5%)	
	No Dyslipidemia (n=5106)	Dyslipidemia (n=1883)	Undiagnosed Dyslipidemia (n=2490)	
<i>Total</i>				<.001*
<i>Small Vessel Disease</i>	2267 (44.4%)	886 (47.1%)	1271 (51.0%)	
<i>Large Vessel Disease</i>	1043 (20.4%)	343 (18.2%)	534 (21.4%)	
<i>Cardio Embolic</i>	1104 (21.6%)	479 (25.4%)	351 (14.1%)	
<i>Stroke of Determined Origin</i>	389 (7.6%)	81 (4.3%)	214 (8.6%)	

<i>Stroke of Unknown Origin</i>	303 (5.9%)	94 (5.0%)	120 (4.8%)
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¹P-value has been measured using Pearson Chi-Square Test.

* $p \leq 0.05$

Appendix Table 3. Summary of lipid profiles for dyslipidemia patients using Kruskal-Wallis H Test and Dunn's post-hoc test.

<i>Lipid Profile</i>	No Dyslipidemia (n=5106)	Dyslipidemia (n=1883)	Undiagnosed Dyslipidemia (n=2490)	Overall Significance	No Dyslipidemia vs. Dyslipidemia¹	No Dyslipidemia vs. Undiagnosed Dyslipidemia¹	Dyslipidemia vs. Undiagnosed Dyslipidemia¹
<i>Serum Cholesterol</i>	3258.20	3523.02	6682.86	<.001*	.001*	<.001*	<.001*
<i>Serum Triglycerides</i>	3918.47	4332.14	4877.47	<.001*	<.001*	<.001*	<.001*
<i>Serum HDL</i>	4008.93	4477.21	4608.40	<.001*	<.001*	<.001*	0.28
<i>Serum LDL</i>	3335.72	3323.13	6615.37	<.001*	1.000	<.001*	<.001*

Values are reported as mean rank.

¹ Bonferroni correction for multiple tests have been applied for the p-values reported.

* p≤0.05