

Supplementary Table 1. Characteristics of patients with ESUS

Variable	Total (n=185)	Newly-diagnosed AF			Recurrent stroke			Composite outcome (new AF or recurrent stroke)		
		AF (n=14)	OR (95% CI)	P	Stroke (n=19)	OR (95% CI)	P	Composite (n=33)	OR (95% CI)	P
Age (yr)	63.0±12.3	65.3±11.9	2.53 (-4.23 to 9.30)	0.461	61.9±10.3	0.99 (0.95–1.03)	0.681	63.3±10.9	1.00 (0.97–1.03)	0.861
Male sex	128 (70.7)	8 (57.1)	1.92 (0.63–5.82)	0.362	15 (78.9)	0.99 (0.95–1.03)	0.672	23 (69.7)	0.91 (0.40–2.06)	0.821
Ethnicity										
Chinese	128 (69.2)	14 (100)	-	0.082	14 (73.7)	-	0.111	28 (84.8)	-	0.161
Malay	35 (18.9)	0 (0)			4 (21.1)			4 (12.1)		
Indian	14 (7.6)	0 (0)			1 (5.3)			1 (3.0)		
Others	8 (4.3)	0 (0)			0 (0)			0 (0)		
Co-morbidities										
Hypertension	138 (74.6)	12 (85.7)	2.15 (0.46–9.97)	0.521	16 (84.2)	1.92 (0.54–6.92)	0.322	28 (84.8)	2.14 (0.77–5.91)	0.141
Diabetes mellitus	65 (35.1)	5 (35.7)	0.99 (0.32–3.09)	0.992	9 (47.4)	1.77 (0.68–4.60)	0.243	14 (42.4)	1.46 (0.68–3.15)	0.342
Hyperlipidaemia	104 (56.2)	10 (71.4)	2.09 (0.63–6.92)	0.221	12 (63.2)	1.38 (0.52–3.68)	0.524	22 (66.7)	1.71 (0.77–3.77)	0.193
Ischemic heart disease	34 (18.4)	1 (7.1)	0.33 (0.04–2.68)	0.471	7 (36.8)	3.00 (1.08–8.32)	0.031	8 (24.2)	1.55 (0.63–3.82)	0.344
Heart failure	7 (3.8)	0 (0)	-	1.003	3 (15.8)	7.59 (1.56–37.0)	0.011	3 (9.1)	3.70 (0.79–13.39)	0.102
Previous stroke/TIA	32 (17.3)	5 (35.7)	3.01 (0.94–9.71)	0.071	9 (47.4)	5.60 (2.05–15.2)	0.001	14 (42.4)	5.49 (2.35–12.81)	<0.001
Peripheral vascular disease	15 (8.1)	0 (0)	-	0.612	4 (21.1)	3.76 (1.07–13.3)	0.042	4 (12.1)	1.77 (0.53–5.94)	0.361
Laboratory findings										
eGFR (>60 mL/min)	82.4±23.4	73.4±22.9	0.98 (0.96–1.01)	0.151	79.9±26.4	0.99 (0.97–1.01)	0.651	77.0±24.7	0.99 (0.97–1.01)	0.201
HbA1c (%)	6.66±2.02	6.72±2.30	1.01 (0.75–1.37)	0.934	7.26±2.49	1.14 (0.92–1.42)	0.221	7.04±2.39	1.10 (0.92–1.33)	0.292
LDL-C (mmol/L)	3.01±1.15	2.79±0.84	0.83 (0.50–1.38)	0.472	2.87±0.94	0.90 (0.56–1.50)	0.662	2.84±0.88	0.85 (0.59–1.23)	0.391
Hematological parameters										
Total white cell count (×10 ³ /mm ³)	8.18±2.39	8.58±3.06	1.07 (0.86–1.33)	0.523	9.18±3.03	1.19 (0.99–1.43)	0.061	8.92±3.01	1.16 (0.99–1.16)	0.061
Neutrophil count (×10 ³ /mm ³)	5.26±2.01	6.08±2.96	1.20 (0.95–1.52)	0.121	6.89±2.66	1.43 (1.16–1.77)	0.001	6.55±2.77	1.42 (1.18–1.72)	0.012
Lymphocyte count (×10 ³ /mm ³)	2.04±0.83	1.67±0.73	0.47 (0.20–1.10)	0.082	1.48±0.63	0.25 (0.10–0.61)	0.002	1.56±0.67	0.30 (0.15–0.58)	0.011
Hemoglobin (g/dL)	13.52±2.01	14.0±1.50	1.13 (0.85–1.51)	0.401	13.65±2.54	1.03 (0.81–1.31)	0.832	13.77±2.14	1.08 (0.89–1.31)	0.452
Platelet count (×10 ³ /mm ³)	260.2±81.9	244.4±67.4	1.00 (0.99–1.01)	0.452	259.5±67.2	1.00 (0.99–1.01)	0.971	253.1±66.6	1.00 (0.99–1.01)	0.583
NLR	3.01±1.91	4.48±3.64	1.30 (1.06–1.59)	0.011	5.33±2.88	1.68 (1.28–2.20)	<0.001	4.97±3.20	2.20 (1.59–3.04)	<0.001
PLR	146.8±76.4	173.3±107.6	1.01 (0.99–1.01)	0.182	208.7±108.2	1.01 (1.01–1.02)	0.001	193.7±107.7	1.01 (1.01–1.02)	<0.001
Echocardiographic parameters										
LVEF 30%–50%	25 (1/3.8)	1 (7.1)	1.82 (0.23–14.63)	0.571	3 (15.8)	1.45 (0.39–5.44)	0.581	4 (12.1)	1.03 (0.32–3.26)	0.961
LA volume (mL)	47.4±17.8	62.3±22.0	1.04 (1.01–1.07)	0.002	53.6±15.8	1.02 (0.99–1.05)	0.112	57.3±3.3	1.04 (1.02–1.06)	0.001
LA volume index (mL/m ²)	27.7±10.3	36.6±12.2	1.08 (1.03–1.13)	0.002	32.1±9.2	1.05 (1.01–1.10)	0.031	34.0±10.6	1.07 (1.03–1.10)	<0.001
LA diameter index (mm/m ²)	22.0±4.3	23.7±3.8	1.00 (0.98–1.01)	0.851	22.9±2.7	0.99 (0.98–1.01)	0.812	23.2±3.2	1.00 (0.99–1.01)	0.742
LVEDVi (mL/m ²)	60.5±18.5	58.9±15.0	1.00 (0.96–1.02)	0.763	67.7±31.0	1.02 (0.99–1.04)	0.081	63.9±25.5	1.01 (0.99–1.03)	0.211
LVMi (g/m ²)	99.7±28.7	102.4±27.2	1.01 (0.98–1.02)	0.734	104.9±28.2	1.01 (0.99–1.02)	0.411	103.8±27.4	1.01 (0.99–1.02)	0.382

Values are presented as mean±standard deviation or number (%).

ESUS, embolic stroke of undetermined source; AF, atrial fibrillation; OR, odds ratio; CI, confidence interval; TIA, transient ischemic attack; eGFR, estimated glomerular filtration rate; HbA1c, hemoglobin A1c; LDL-C, low-density lipoprotein cholesterol; NLR, neutrophil-lymphocyte ratio; PLR, platelet-lymphocyte ratio; LVEF, left ventricular ejection fraction; LA, left atrium; LVEDVi, left ventricular end-diastolic volume index; LVMi, left ventricular mass index.