

Supplemental Table 2. Baseline characteristics of acute ischemic stroke patients via the grades of left ventricular diastolic dysfunction (N = 2,827)

Variables	Grade of left ventricular diastolic dysfunction				P for difference
	Normal [N = 1153, 41%]	Grade I [N = 1161, 41%]	Grade II [N = 332, 12%]	Grade III [N = 181, 6%]	
Demographic information					
Male	742 (64%)	670 (58%)	210 (63%)	102 (56%)	< 0.01
Age	64 ± 14	69 ± 12	67 ± 13	68 ± 13	< 0.01
Vascular risk factors					
Stroke	190 (16%)	212 (18%)	67 (20%)	34 (19%)	0.40
Hypertension	758 (66%)	866 (75%)	220 (66%)	119 (66%)	< 0.01
Diabetes	339 (29%)	385 (33%)	101 (30%)	59 (33%)	0.26
Hyperlipidemia	292 (25%)	283 (24%)	65 (20%)	41 (23%)	0.19
Atrial fibrillation	170 (15%)	112 (10%)	84 (25%)	67 (37%)	< 0.01
Habitual smoking	567 (49%)	460 (40%)	134 (40%)	75 (41%)	< 0.01
Coronary heart disease	82 (7%)	101 (10%)	28 (11%)	18 (14%)	0.01
Congestive heart failure	5 (0%)	5 (0%)	3 (1%)	1 (1%)	0.72
Mechanism of ischemic stroke					
< 0.01					
Large artery atherosclerosis	471 (41%)	496 (43%)	111 (33%)	43 (24%)	
Small vessel occlusion	210 (18%)	237 (20%)	57 (17%)	23 (13%)	
Cardioembolism	248 (22%)	175 (15%)	111 (33%)	76 (42%)	
Other determined etiology	43 (4%)	35 (3%)	7 (2%)	8 (4%)	
Undetermined etiology	181 (16%)	218 (19%)	46 (14%)	31 (17%)	
Stroke information					
mRS score 0 before index stroke	1,056 (92%)	972 (84%)	281 (85%)	147 (81%)	< 0.01
NIHSS at initial presentation	3 [1-6]	3 [1-7]	3 [1-8]	4 [2-11]	< 0.01
Systolic blood pressure (mmHg)	153 ± 26	157 ± 27	154 ± 27	152 ± 27	< 0.01
Initial random glucose (mg/dL)	139 ± 60	144 ± 64	151 ± 72	159 ± 92	< 0.01
Hemoglobin (g/dL)	14 ± 2	14 ± 2	14 ± 2	14 ± 2	< 0.01
HbA1c (%)	6.3 ± 1.4	6.4 ± 1.3	6.4 ± 1.3	6.5 ± 1.5	0.33
Total cholesterol (mg/dL)	177 ± 43	181 ± 42	184 ± 43	185 ± 48	0.01
Hyperacute recanalization treatment	157 (14%)	144 (12%)	42 (13%)	40 (22%)	< 0.01
Echocardiographic profile					
Ejection fraction (%)	62.4 ± 6.9	61.9 ± 7.9	60.8 ± 8.5	59.8 ± 9.1	< 0.01
Preserved ejection fraction (≥ 40%)	1,138 (99%)	1,120 (97%)	318 (96%)	175 (97%)	< 0.01
E (cm/s)	66.8 ± 21.6	63.6 ± 28.4	72.7 ± 23.0	74.5 ± 29.5	< 0.01
A (cm/s)	75.7 ± 18.8	82.9 ± 19.6	71.4 ± 19.8	74.4 ± 33.3	< 0.01
e' (cm/s)	7.5 ± 2.8	4.3 ± 2.7	2.8 ± 3.3	2.0 ± 2.8	< 0.01
a' (cm/s)	9.8 ± 2.4	9.4 ± 2.1	6.4 ± 2.0	3.7 ± 1.1	< 0.01
Deceleration time (msec)	207.7 ± 62.2	227.2 ± 83.0	172.9 ± 22.5	132.1 ± 20.6	< 0.01
Left atrial volume index (mm/m ²)	31.7 ± 13.0	48.0 ± 23.5	57.4 ± 20.0	67.1 ± 23.2	< 0.01
Left ventricular end systolic dimension (mm)	29.9 ± 6.0	30.0 ± 5.9	29.0 ± 5.7	28.4 ± 4.5	< 0.01
Left ventricular end diastolic dimension (mm)	46.6 ± 5.8	46.6 ± 5.7	46.8 ± 5.6	46.2 ± 4.8	0.72
Mitral stenosis	4 (0%)	13 (1%)	0 (0%)	2 (1%)	0.05
Mitral regurgitation	543 (47%)	609 (52%)	213 (64%)	96 (53%)	< 0.01
Aortic stenosis	11 (1%)	26 (2%)	8 (2%)	5 (3%)	0.05
Aortic regurgitation	293 (25%)	410 (35%)	105 (32%)	63 (35%)	< 0.01
Hypertrophic cardiomyopathy	4 (0%)	16 (1%)	7 (2%)	8 (4%)	< 0.01
Discharge medication					
Anti-diabetic agents	268 (23%)	268 (26%)	57 (22%)	28 (22%)	0.44
Anti-hypertensive agents	551 (48%)	575 (55%)	130 (51%)	56 (44%)	< 0.01
Anti-hyperlipidemic agents	990 (86%)	854 (82%)	177 (69%)	79 (62%)	< 0.01
Anti-platelet agents	956 (84%)	988 (87%)	246 (75%)	123 (69%)	< 0.01
Anticoagulant	209 (18%)	158 (14%)	93 (29%)	57 (32%)	< 0.01

mRS, modified Rankin Scale; NIHSS, National Institute of Health Stroke Scale; composite vascular events include recurrent stroke, myocardial infarction and vascular death after the index stroke.