

Supplementary table 1. Multiple linear regressions of functional outcomes at 3 months *

	3-month FIM [†]		3-month K-MBI [‡]	
	$\beta \pm \text{SE}$ (95% CI)	p	$\beta \pm \text{SE}$ (95% CI)	p
Age	-0.26±0.03 (-0.33, -0.19)	<0.001	-0.21±0.03 (-0.28, -0.15)	<0.001
Gender, female vs male	-1.34±0.96 (-3.23, 0.53)	0.161	-0.57±0.91 (-2.37, 1.22)	0.531
Education				
College	1.0		1.0	
Middle or High school	0.28±1.15 (-1.97, 2.54)	0.770	-0.29±0.93 (-2.12, 1.54)	0.754
Elementary or under	0.28±0.97 (-1.63, 2.20)	0.804	0.40±1.10 (-1.75, 2.57)	0.711
Smoking				
No	1.0		1.0	
Yes	-0.45±0.52 (-1.47, 0.57)	0.390	0.11±0.50 (-0.86, 1.10)	0.811
Alcohol consumption				
No	1.0		1.0	
Yes	1.06±0.89 (-0.69, 2.82)	0.236	0.78±0.85 (-0.89, 2.47)	0.358
Obese				
No	1.0		1.0	
Yes	0.79±0.78 (-0.74, 2.33)	0.313	0.01±0.75 (-1.46, 1.49)	0.980
Hypertension				
No	1.0		1.0	
Yes	0.05±1.03 (-1.97, 2.09)	0.954	0.01±0.99 (-1.94, 1.95)	0.995
Diabetes mellitus				
No	1.0		1.0	
Yes	-0.04±0.74 (-1.50, 1.40)	0.947	-0.07±0.70 (-1.46, 1.31)	0.914
Dyslipidemia				
No	1.0		1.0	
Yes	-0.30±0.77 (-1.82, 1.22)	0.697	0.13±0.74 (-1.32, 1.59)	0.857
Chronic kidney disease				
No	1.0		1.0	
Yes	-3.44±1.13 (-5.08, -0.63)	0.002	-3.48±1.08 (-5.62, -1.34)	0.001
FIM, discharge	0.47±0.01 (0.42, 0.50)	<0.001	-	-
K-MBI, discharge	-	-	0.47±0.01 (0.43, 0.51)	<0.001
NIHSS at 7 Days	-1.71±0.09 (-1.90, -1.51)	<0.001	-1.63±0.09 (-1.81, -1.45)	<0.001

*Estimated by multiple linear regression analysis of the variables indicated in the table.

[†]F=313.6, R²=0.691

[‡]F=291.3, R²=0.680

FIM functional independence measurement; K-MBI Korean version of the modified Barthel Index; NIHSS National Institutes of Health Stroke Scale

Supplementary table 2. Multiple linear regression of functional outcomes at 6 months by age group*

Variables	<65 years old group		≥65 years old group	
	β±SE (95% CI)	p	β±SE (95% CI)	p
Six-month FIM				
Gender, female vs male	0.19±1.08 (-1.93, 2.31)	0.859	-1.19±1.48 (-4.09, 1.71)	0.421
Education				
College	1.0		1.0	
Middle or High school	-1.62±0.90 (-3.40, 0.14)	0.072	1.59±1.76 (-1.87, 5.06)	0.366
Elementary or under	-0.37±1.38 (-3.10, 2.34)	0.785	1.55±1.81 (-1.99, 5.11)	0.389
Smoking				
No	1.0		1.0	
Yes	0.36±0.52 (-0.66, 1.40)	0.486	0.50±0.88 (-1.23, 2.24)	0.569
Alcohol consumption				
No	1.0		1.0	
Yes	1.30±0.91 (-0.49, 3.10)	0.154	1.30±1.45 (-1.54, 4.16)	0.369
Obese				
No	1.0		1.0	
Yes	1.09±0.83 (-0.54, 2.72)	0.191	1.19±1.23 (-1.23, 3.62)	0.335
Hypertension				
No	1.0		1.0	
Yes	-0.22±1.01 (-2.21, 1.75)	0.821	0.02±1.84 (-3.59, 3.65)	0.987
Diabetes mellitus				
No	1.0		1.0	
Yes	-0.74±0.80 (-2.33, 0.83)	0.354	-0.49±1.16 (-2.76, 1.78)	0.672
Dyslipidemia				
No	1.0		1.0	
Yes	-0.43±0.81 (-2.04, 1.16)	0.593	-0.16±1.25 (-2.63, 2.30)	0.896
Chronic kidney disease				
No	1.0		1.0	
Yes	-3.50±1.87 (-7.17, -0.16)	0.061	-3.61±1.46 (-6.49, -0.73)	0.014
FIM, discharge	0.46±0.01 (0.42, 0.50)	<0.001	0.53±0.02 (0.48, 0.59)	<0.001
NIHSS at 7 Days	-1.32±0.11 (-1.56, -1.09)	<0.001	-1.81±0.14 (-2.10, -1.53)	<0.001
Six-month K-MBI				
Gender, female vs male	0.81±0.99 (-1.13, 2.75)	0.411	-1.05±1.46 (-3.92, 1.82)	0.473
Education				
College	1.0		1.0	
Middle or High school	-1.18±0.82 (-2.80, 0.43)	0.152	1.24±1.74 (-2.18, 4.67)	0.476
Elementary or under	0.08±1.27 (-2.40, 2.58)	0.944	1.56±1.79 (-1.95, 5.08)	0.382
Smoking				
No	1.0		1.0	
Yes	0.72±0.48 (-0.22, 1.67)	0.133	1.29±0.88 (-0.43, 3.01)	0.164
Alcohol consumption				
No	1.0		1.0	
Yes	0.09±0.83 (-1.54, 1.74)	0.908	1.35±1.44 (-1.47, 4.18)	0.348
Obese				
No	1.0		1.0	
Yes	0.42±0.76 (-1.06, 1.92)	0.574	0.38±1.22 (-2.01, 2.79)	0.751
Hypertension				
No	1.0		1.0	
Yes	0.55±0.92 (-1.25, 2.36)	0.548	-0.35±1.82 (-3.94, 3.22)	0.844
Diabetes mellitus				
No	1.0		1.0	
Yes	-0.28±0.73 (-1.72, 1.16)	0.702	-0.21±1.14 (-2.46, 2.04)	0.853
Dyslipidemia				
No	1.0		1.0	
Yes	0.44±0.74 (-1.02, 1.91)	0.550	0.79±1.24 (-1.65, 3.24)	0.526
Chronic kidney disease				
No	1.0		1.0	
Yes	-2.94±1.70 (-6.29, -0.41)	0.085	-3.73±1.45 (-6.58, -0.88)	0.010
K-MBI, discharge	0.31±0.02 (0.27, 0.35)	<0.001	0.55±0.02 (0.50, 0.61)	<0.001
NIHSS at 7 Days	-1.20±0.10 (-1.40, -1.00)	<0.001	-1.61±0.14 (-1.89, -1.33)	<0.001

*Estimated by multiple linear regression analysis of the variables indicated in the table.

Six-month FIM (1) <65 years old group F=100.05, R²=0.571 (2) ≥65 years old group F=176.09, R²=0.656Six-month K-MBI (1) <65 years old group F=86.43, R²=0.535 (2) ≥65 years old group F=164.32, R²=0.640

FIM functional independence measurement; K-MBI Korean version of the modified Barthel Index; NIHSS National Institutes of Health Stroke Scale

Supplementary table 3. Multiple linear regressions of 6-month functional outcomes with and without adjusting for 7-day NIHSS*

	6-month FIM		6-month K-MBI	
	$\beta \pm \text{SE}$ (95% CI)	p	$\beta \pm \text{SE}$ (95% CI)	p
CKD [†] No	1.0		1.0	
Yes	-2.85 \pm 1.13 (-5.08, -0.63)	0.011	-2.88 \pm 1.11 (-5.07, -0.70)	0.009
CKD I [‡] No	1.0		1.0	
Yes	-3.15 \pm 1.21 (-5.53, -0.77)	0.009	-3.31 \pm 1.18 (-5.64, -0.98)	0.005

[†]Adjusted for 7-day NIHSS, age, gender, education, smoking, drinking, obesity, HT, DM, dyslipidemia, and discharge FIM or K-MBI.

[‡] Adjusted for all covariates except 7-day NIHSS.