

Supplementary Table 1. Protocols of brain 3D Time-of-Flight Magnetic Resonance Angiography (TOF-MRA)

	Protocols of TOF-MRA		
	Gunsan Medical Center	Jeonbuk National University Hospital	Samsung Medical Center
Tesla	3.0	3.0	3.0
Repetition time, ms	20.0	23.0	25.0
Echo time, ms	3.45	3.5	3.45
Flip angle, °	20.0	20.0	20.0
Resolution	488×310	300×220	880×310
Field of view	200	180	200
Slices	152	160	152
Manufacturer	Ingenia Cx, Philips	Achieva, Philips	Achieva, Philips
	Medical System	Medical System	Medical System

Supplementary Table 2. Mean values of signal intensity gradient (SIG) in cerebral arteries according to modified Rankin Scale (mRS) score

SIG of cerebral arteries, SI/mm											
mRS	Rt ICA	Lt ICA	Rt VA	Lt VA	BA	Rt MCA	Lt MCA	Rt ACA	Lt ACA	Rt PCA	Lt PCA
0	7.4 ± 1.8	7.0 ± 1.8	7.0 ± 1.7	6.8 ± 1.7	8.8 ± 2.4	6.1 ± 1.4	6.0 ± 1.3	6.3 ± 1.7	6.3 ± 1.4	7.3 ± 2.0	7.0 ± 2.2
1	7.4 ± 1.9	7.2 ± 1.9	6.9 ± 1.6	6.6 ± 1.7	9.1 ± 2.7	6.2 ± 1.5	6.1 ± 1.4	6.3 ± 1.6	6.2 ± 1.4	6.8 ± 2.0	6.7 ± 1.9
2	6.6 ± 2.2	6.4 ± 2.1	6.5 ± 1.9	6.3 ± 1.8	8.3 ± 2.8	5.6 ± 1.4	5.7 ± 1.3	5.9 ± 1.6	5.7 ± 1.5	6.5 ± 2.0	6.3 ± 1.8
3	5.7 ± 1.6	5.8 ± 1.6	5.9 ± 1.4	5.7 ± 1.6	7.1 ± 2.2	5.1 ± 1.2	5.2 ± 1.1	5.2 ± 1.3	5.1 ± 1.3	5.8 ± 1.7	5.9 ± 1.8
4	5.8 ± 1.7	6.0 ± 1.6	5.7 ± 1.8	5.7 ± 1.5	7.3 ± 2.4	5.3 ± 1.2	5.3 ± 1.2	5.3 ± 1.4	5.3 ± 1.3	5.9 ± 1.9	6.1 ± 1.8
Overall	6.4 ± 2.0 [*]	6.3 ± 1.9 [*]	6.3 ± 1.7 [*]	6.1 ± 1.7 [*]	8.0 ± 2.6 [*]	5.5 ± 1.4 [*]	5.6 ± 1.3 [*]	5.7 ± 1.5 [*]	5.6 ± 1.4 [*]	6.3 ± 2.0 [†]	6.3 ± 1.9 [†]

[†]P < 0.05, [‡]P < 0.01, ^{*} P < 001 by analysis of variance (ANOVA).