Supplemental Material

Supplemental Table 1. PCT and NCT infarct volume in different time windows in comparison with DWI* results derived from Dr. González study.

		PCT infarct volume(ml)				NCT infarct volume(ml)				DWI* volume			
	No.	mean	Range	Median	IQR	mean	Range	Median	IQR	mean	Range	Median	IQR
0~3h	142	73	276	54	81	37	182	28	44	65	276	23	97
3~6h	46	87	187	63	111	48	187	41	58	62	308	41	80
6~9h	21	83	185	59	94	51	167	34	77	60	318	30	56
9~12h	9	64	151	73	88	66	116	65	61	69	219	43	68
12~15h	5	87	211	75	50	79	303	25	47	43	128	13	96
15~18h	5	59	160	26	72	40	95	20	40	53	135	62	63
>18h	4	38	114	19	53	86	287	28	89	53	237	15	64

DWI* is the results from R. Gilberto González study

Supplemental Table 2: univariate analysis for the prediction of PCT IGR, NCT IGR, and mRS

Clinical and imaging biomarkers	Biomarkers for prediction					
	PCT IGR		NCT IGR		mRS	
Clinical biomarkers	<11.2 ml/log(min)	>11.2ml/log (min)	<6.2ml/log (min)	<6.2ml/log(min))	<=2	>2
Age in years (median [IQR])	70.5[60,77]	68.5[57.3,79]	70[59.3,78]	69[58, 78]	68[54.0, 76]*	72[59.5, 72.0]*
Female (%)	53(22.8)	58(25)	57(24.5)	54(23.3)	43(18.5)	68(29.3)
Hypertension (%)	70(30.2)	67(28.9)	67(28.9)	70(30.2)	55(23.7)	82(35.3)
Diabetes mellitus (%)	18(7.8)	26(11.2)	21(9.1)	23(9.9)	22(9.5)	22(9.5)
Glucose (mg/dL) (median [IQR])	6.6[5.9,7.8]	6.8[5.9,7.9]	6.6[5.9,7.7]	6.7[6, 8.1]	6.8[4, 7.9]	6.6[5.9, 7.8]
Hyperlipidemia (%)	86(37.1)	74(31.9)	82(35.4)	78(33.6)	58(25.0)	102(44.0)
Statin use (%)	29(12.5)	28(12.1)	26(11.2)	31(13.4)	21(9.1)	36(15.5)
Atrial fibrillation (%)	46(19.8)	56(24.1)	52(22.4)	50(21.6)	38(16.4)	64(27.6)
Cardiovascular (%)	14(6.0)	12(5.2)	14(6.0)	12(5.2)	10(4.3)	16(6.9)
Smoking status (%)						
never smoked	64(27.6)*	75(32.3)*	75(32.3)*	64(27.6)*	56(24.1)	83(35.8)
active smoker or stopped < 2 years ago	30(12.9)*	32(13.8)*	22(9.5)*	40(17.2)*	24(10.3)	38(16.4)
stopped smoking >2 years ago	22(9.5)*	9(3.9)*	19(8.2)*	12(5.2)*	11(4.7)	20(8.6)
NIHSS	17.5(13.25,21)*	16(11,21)*	15(10.25,20)*	18.5(14,22)*	13(7,17)*	15.5(20,22)*
Imaging biomarkers						
Time from symptom onset(h) (median [IQR])	2.3[1.5, 4.6]	2.5[1.8, 4.5]	2.2[1.5, 3.4]	2.9[1.8, 5.7]	2.3[1.6, 4.5]	2.5[1.8, 4.6]
ASPECT score (median [IQR])	7[6, 8.8]*	6[5, 7]*	-	-	-	-
NCT infarct volume (ml) (median [IQR])	-	-	-	-	23.4[11.6,45.8]	36.8[12.8,76.1]
PCT infarct volume (ml) (median [IQR])	-	-	-	-	37.9[15.6,72.6]	82.8[39.5,145.2]
Penumbra volume(ml) (median [IQR])	138.8[110.0,171.8]*	96.5[57.7,127.6]*	121.7[90.9,163.3]	114.5[71.3,152.7]	128.4[96.4,165.3]*	112[67.6, 152.6]*
Occlusion site (%)						
ICA and M1 and M2	14(6.0)*	41(17.7)*	13(5.6)*	42(18.1)*	15(6.5)*	40(17.2)*
ICA and M1	8(3.4)*	17(7.3)*	10(4.3)*	15(6.5)*	6(2.6)*	19(8.2)*
M1 and M2	60(25.9)*	44(19.0)*	61(26.3)*	43(18.5)*	48(20.7)*	56(24.1)*
M1 only	34(14.7)*	14(6.0)*	32(13.8)*	16(6.9)*	22(9.5)*	26(11.2)*

Collateral (%)						
absent collaterals	11(4.7)	15(6.5)	8(3.4)*	18(7.8)*	5(2.2)	21(9.1)
< 50% of occluded territory	44(19.0)	58(25.0)	44(19.0)*	58(25.0)*	40(17.2)	62(26.7)
50%≤ and <100% occluded territory	39(16.8)	33(14.2)	43(18.5)*	29(12.5)*	30(12.9)	42(18.1)
100% of occluded territory	22(9.5)	10(4.3)	21(9.1)*	11(4.7)*	16(6.9)	16(6.9)
Recanalization (%)	-	-	-	-	58(25)	88(37.9)

Supplemental Table 3. Distribution 3-month mRS score in our study patients.

Modified Rankin Scale	N (%)
mRS=0	16 /232(6.9)
mRS=1	28 /232 (12.1)
mRS=2	47/232 (20.3)
mRS=3	35/232 (15.1)
mRS=4	41 /232 (17.7)
mRS=5	15 /232 (6.5)
mRS=6	50 /232 (21.6)

Supplemental Figure I. Patient inclusion decision tree for our study.

878 patients

→ 208 patients
with less than 8cm PCT coverage

670 patients

→ 140 patients
with poor contrast bolus or motion

530 patients

→ 93 patients
with PCA/ACA occlusion

437 patients

→ 176 patients with ICA only occlusion/
undetectable MCA small branches occlusion/
previous MCA or ICA stent implantation

261 patients

→ 16 patients
with subacute/chronic/ remote infarct /haemorrhage/
vascular malformation on baseline images

245 patients

→ 13 patients
with incomplete clinical information

232 patients