

On-line Table 1: Basic demographic and outcome variables

	Group A		Group B		Group C		Group D		C vs D		tPA Status		Overall Group Effect	
	Recan-, CS-	Recan+, CS+	Recan-, CS-	Recan+, CS+	P Value	Recan+, CS-	Recan+, CS+	P Value	P Value	P Value	P Value	P Value	P Value	
Demographic variables														
Age (yr) (mean)	71.9 ± 13.9	70.0 ± 15.2	77.6 ± 14.4	72.5 ± 13.5	.4085	77.6 ± 14.4	72.5 ± 13.5	.0835	.934	.0753	.934	.0753		
Sex (Female) (No) (%)	24 (42.1)	67 (56.8)	13 (50.0)	94 (48.5)	.0667	13 (50.0)	94 (48.5)	.9347	.0223 ^b	.3297	.0223 ^b	.3297		
CBS >6 (No) (%)	11 (19.3)	55 (46.6)	6 (23.1)	109 (56.2)	.0006 ^b	6 (23.1)	109 (56.2)	.1087	.0041 ^b	<.0001 ^b	.0041 ^b	<.0001 ^b		
Proximal clot location (No) (%)	39 (68.4)	58 (49.2)	10 (38.5)	63 (32.5)	.0166	10 (38.5)	63 (32.5)	.2618	.0944	<.0001 ^b	.0944	<.0001 ^b		
Time to scan (min) (median) (interquartile range) ^a	107.5 (80.5–147.5)	106.0 (83.0–157.0)	94.0 (73.0–139.5)	107.0 (80.0–147.0)	.5709	94.0 (73.0–139.5)	107.0 (80.0–147.0)	.1491	<.0001 ^b	.4878	<.0001 ^b	.4878		
Mean blood pressure (mm Hg) (mean)	133.2 ± 27.3	128.5 ± 25.2	124.4 ± 32.9	130.0 ± 29.4	.2936	124.4 ± 32.9	130.0 ± 29.4	.3746	.297	.5572	.297	.5572		
Hyperglycemia (No) (%)	10 (17.5)	32 (27.1)	6 (23.1)	35 (18.0)	.1681	6 (23.1)	35 (18.0)	.7632	.3271	.2038	.3271	.2038		
Hypertension (No) (%)	38 (66.7)	75 (63.6)	19 (73.1)	125 (64.4)	.6886	19 (73.1)	125 (64.4)	.4037	.5588	.8192	.5588	.8192		
Diabetes (No) (%)	8 (14.0)	27 (22.9)	5 (19.2)	30 (15.5)	.1746	5 (19.2)	30 (15.5)	.7861	.2083	.2692	.2083	.2692		
High cholesterol (No) (%)	19 (33.3)	46 (39.0)	8 (30.8)	80 (41.2)	.47	8 (30.8)	80 (41.2)	.4807	.5694	.6379	.5694	.6379		
CAD (No) (%)	10 (17.5)	26 (22.0)	4 (15.4)	47 (24.2)	.4933	4 (15.4)	47 (24.2)	.4923	.3899	.6664	.3899	.6664		
Smoking (No) (%)	11 (19.3)	23 (19.5)	4 (15.4)	28 (14.4)	.9769	4 (15.4)	28 (14.4)	.775	.7253	.6177	.7253	.6177		
GM: core volume (cm ³) (mean) ^a	13.6 ± 11.1	5 ± 6.1	10.9 ± 7.5	4.3 ± 5.1	<.0001 ^b	10.9 ± 7.5	4.3 ± 5.1	<.0001 ^b	.0747	<.0001 ^b	<.0001 ^b	<.0001 ^b		
WM: core volume (cm ³) (mean) ^a	8.4 ± 8.2	2.8 ± 4.1	7.2 ± 6.1	2.6 ± 3.7	<.0001 ^b	7.2 ± 6.1	2.6 ± 3.7	<.0001 ^b	.0521	<.0001 ^b	<.0001 ^b	<.0001 ^b		
GM: penumbra volume (cm ³) (mean) ^a	11.6 ± 6.2	5.7 ± 5.2	8.5 ± 4	4.6 ± 4.4	<.0001 ^b	8.5 ± 4	4.6 ± 4.4	<.0001 ^b	.1678	<.0001 ^b	<.0001 ^b	<.0001 ^b		
WM: penumbra volume (cm ³) (mean) ^a	7.1 ± 4.8	3 ± 3.3	5.1 ± 2.5	2.4 ± 2.4	<.0001 ^b	5.1 ± 2.5	2.4 ± 2.4	<.0001 ^b	.1312	<.0001 ^b	<.0001 ^b	<.0001 ^b		
GM: benign volume (cm ³) (mean) ^a	16.2 ± 6.3	10 ± 7.2	12.6 ± 5.7	8.4 ± 6.6	<.0001 ^b	12.6 ± 5.7	8.4 ± 6.6	.0016 ^b	.1129	<.0001 ^b	.1129	<.0001 ^b		
WM: benign volume (cm ³) (mean) ^a	9.7 ± 5.1	4.9 ± 4.3	7.2 ± 3.3	4 ± 3.7	<.0001 ^b	7.2 ± 3.3	4 ± 3.7	<.0001 ^b	.1626	<.0001 ^b	.1626	<.0001 ^b		
GM: total ischemic volume (cm ³) (mean) ^a	41.4 ± 20.3	20.7 ± 16.5	32 ± 14.4	17.4 ± 14.1	<.0001 ^b	32 ± 14.4	17.4 ± 14.1	<.0001 ^b	.1611	<.0001 ^b	.1611	<.0001 ^b		
WM: total ischemic volume (cm ³) (mean) ^a	25.2 ± 15.8	10.7 ± 10.5	19.5 ± 10	9 ± 8.5	<.0001 ^b	19.5 ± 10	9 ± 8.5	<.0001 ^b	.1323	<.0001 ^b	.1323	<.0001 ^b		
Outcome variables														
Baseline NIHSS (median) (interquartile range) ^a	20 (17–23)	13 (8–18)	18 (16–23)	11 (6–17)	<.0001 ^b	18 (16–23)	11 (6–17)	<.0001 ^b	<.0001 ^b	<.0001 ^b	<.0001 ^b	<.0001 ^b		
mRS score (median) (interquartile range)	5 (4–6)	4 (2–5)	5 (2–6)	2 (1–4)	.0002 ^b	5 (2–6)	2 (1–4)	<.0001 ^b	.6194	<.0001 ^b	.6194	<.0001 ^b		
Good outcome (No.) (%)	3 (5.4)	35 (29.9)	7 (26.9)	99 (52.1)	.0012 ^b	7 (26.9)	99 (52.1)	.6722	.0455	<.0001 ^b	.0455	<.0001 ^b		
Hemorrhagic transformation (No.) (%)	31 (54.4)	50 (42.4)	17 (65.4)	76 (39.2)	.1328	17 (65.4)	76 (39.2)	.0524	.0664	.0178	.0664	.0178		
Final infarct size volume cm ³ (mean) ^a	184.8 ± 135.2	97.7 ± 104.1	108.5 ± 98.2	42.1 ± 74.4	.0006 ^b	108.5 ± 98.2	42.1 ± 74.4	.0001 ^b	.0093 ^b	<.0001 ^b	.0093 ^b	<.0001 ^b		

Note:—CAD indicates coronary artery disease; Recan+, recanalization-positive; Recan-, recanalization-negative.

^a Bonferroni adjusted P value < .0125 considered statistical significant.

^b P value is significant.

On-line Table 2: Univariate analysis for outcomes and variables^a

Outcome and Clinical Variables	Recan-					Recan+						
	tPA vs Non-tPA	Collateral			Clinical Variable		tPA vs Non-tPA	Collateral			Clinical Variable	
		Pos. vs Neg.		Coefficient (SE)	P Value	Coefficient (SE)		Pos. vs Neg.		Clinical Variable		
		P Value	P Value					P Value	P Value	OR (95% CI)	OR (95% CI)	
Baseline NIHSS												
Age (yr)	.0075 ^c	.0001 ^c	-0.526 (0.093)	.0305 ^c	0.007 (0.003)	.0002 ^c	<.0001 ^c	-0.600 (0.145)	.0476 ^c	0.007 (0.003)		
Sex (I = F, 0 = M)	.0071 ^c	<.0001 ^c	-0.531 (0.095)	.8784	-0.014 (0.090)	.0002 ^c	<.0001 ^c	-0.640 (0.145)	.2692	0.102 (0.092)		
CBS >6 (I = Y, 0 = N)	.0208 ^c	<.0001 ^c	-0.445 (0.094)	.0006 ^c	-0.327 (0.093)	.0022 ^c	.0005 ^c	-0.503 (0.142)	<.0001 ^c	-0.402 (0.090)		
Clot location (proximal vs distal)	.0107 ^c	<.0001 ^c	-0.495 (0.094)	.0292 ^c	0.198 (0.090)	.0005 ^c	<.0001 ^c	-0.629 (0.145)	.0822	0.169 (0.097)		
Time to scan (min) ^b	.014 ^c	<.0001 ^c	-0.525 (0.095)	.5531	-0.047 (0.080)	.0037 ^c	<.0001 ^c	-0.667 (0.145)	.0261 ^c	-0.189 (0.084)		
Mean blood pressure (mm Hg)	.0069 ^c	<.0001 ^c	-0.534 (0.094)	.8996	-0.000 (0.002)	.0003 ^c	<.0001 ^c	-0.641 (0.145)	.7061	-0.001 (0.002)		
Hyperglycemia (I = Y, 0 = N)	.0063 ^c	<.0001 ^c	-0.529 (0.095)	.6699	-0.045 (0.106)	.0002 ^c	<.0001 ^c	-0.630 (0.145)	.235	0.139 (0.117)		
Hypertension (I = Y, 0 = N)	.0068 ^c	<.0001 ^c	-0.533 (0.094)	.4733	0.068 (0.094)	.0002 ^c	<.0001 ^c	-0.632 (0.146)	.5257	0.062 (0.097)		
Diabetes (I = Y, 0 = N)	.0064 ^c	<.0001 ^c	-0.540 (0.094)	.4006	0.096 (0.114)	.0003 ^c	<.0001 ^c	-0.639 (0.146)	.9011	0.016 (0.125)		
High cholesterol (I = Y, 0 = N)	.0083 ^c	<.0001 ^c	-0.547 (0.093)	.0149 ^c	0.223 (0.091)	.0003 ^c	<.0001 ^c	-0.643 (0.146)	.6512	0.042 (0.093)		
CAD (I = Y, 0 = N)	.0068 ^c	<.0001 ^c	-0.532 (0.094)	.8277	-0.024 (0.109)	.0003 ^c	<.0001 ^c	-0.647 (0.145)	.3367	0.103 (0.107)		
Smoking (I = Y, 0 = N)	.0072 ^c	<.0001 ^c	-0.534 (0.094)	.7577	-0.035 (0.114)	.0001 ^c	<.0001 ^c	-0.647 (0.144)	.0578	-0.243 (0.127)		
Total ischemic volume ^b	.0208 ^c	.0059 ^c	-0.277 (0.099)	<.0001 ^c	0.241 (0.042)	.0007 ^c	.0008 ^c	-0.519 (0.153)	.0015 ^c	0.107 (0.033)		
	P Value	P Value	OR (95% CI)	P Value	OR (95% CI)	P Value	P Value	OR (95% CI)	P Value	OR (95% CI)		
Hemorrhagic transformation												
Age (yr)	.1379	.1779	0.64 (0.34-1.22)	.3068	1.01 (0.99-1.03)	.2268	.0069 ^c	0.30 (0.12-0.70)	.1833	0.99 (0.97-1.01)		
Sex (I = F, 0 = M)	.1283	.1359	0.61 (0.32-1.17)	.4695	1.25 (0.68-2.33)	.277	.0104 ^c	0.32 (0.13-0.75)	.4641	0.81 (0.47-1.41)		
CBS >6 (I = Y, 0 = N)	.2373	.4326	0.77 (0.39-1.50)	.0284 ^c	0.48 (0.24-0.92)	.2786	.0203 ^c	0.35 (0.14-0.83)	.3918	0.78 (0.45-1.37)		
Clot location (proximal vs distal)	.162	.286	0.70 (0.36-1.35)	.09	1.72 (0.92-3.21)	.3152	.0129 ^c	0.33 (0.13-0.77)	.0301 ^c	1.90 (1.07-3.41)		
Time to scan (min) ^b	.084	.191	0.65 (0.34-1.24)	.4385	1.24 (0.72-2.15)	.2028	.0089 ^c	0.29 (0.12-0.72)	.7687	1.08 (0.64-1.82)		
Mean blood pressure (mm Hg)	.1411	.1663	0.63 (0.33-1.21)	.8993	1.00 (0.99-1.01)	.2202	.0108 ^c	0.32 (0.13-0.75)	.8219	1.00 (0.99-1.01)		
Hyperglycemia (I = Y, 0 = N)	.1441	.1617	0.63 (0.33-1.20)	.9425	1.03 (0.50-2.10)	.1939	.012 ^c	0.33 (0.13-0.76)	.0225 ^c	2.27 (1.13-4.64)		
Hypertension (I = Y, 0 = N)	.136	.1648	0.63 (0.33-1.20)	.5089	1.37 (0.65-2.92)	.2531	.0067 ^c	0.29 (0.12-0.70)	.0167 ^c	0.49 (0.28-0.88)		
Diabetes (I = Y, 0 = N)	.135	.1362	0.61 (0.32-1.16)	.3368	1.45 (0.68-3.15)	.1853	.0093 ^c	0.31 (0.13-0.73)	.3546	0.70 (0.32-1.48)		
High cholesterol (I = Y, 0 = N)	.1523	.1407	0.62 (0.32-1.17)	.1952	1.52 (0.81-2.86)	.2119	.0139 ^c	0.33 (0.13-0.78)	.0609	0.58 (0.33-1.02)		
CAD (I = Y, 0 = N)	.1474	.1481	0.62 (0.32-1.18)	.4086	1.37 (0.65-2.92)	.2387	.0089 ^c	0.31 (0.12-0.73)	.3561	1.35 (0.71-2.57)		
Smoking (I = Y, 0 = N)	.149	.1595	0.63 (0.33-1.20)	.372	0.70 (0.31-1.52)	.1801	.0092 ^c	0.31 (0.13-0.73)	.1336	0.53 (0.22-1.18)		
Total ischemic volume ^b	.2094	.8345	0.92 (0.44-1.94)	.009 ^c	1.62 (1.15-2.38)	.241	.0583	0.41 (0.16-1.01)	.3966	1.10 (0.89-1.37)		
	P Value	P Value	OR (95% CI)	P Value	OR (95% CI)	P Value	P Value	OR (95% CI)	P Value	OR (95% CI)		
Poor outcome (mRS >2)												
Age (yr)	.184	.0015 ^c	0.13 (0.03-0.40)	.0041 ^c	1.04 (1.01-1.07)	.1471	.0434 ^c	0.36 (0.13-0.931)	<.0001 ^c	1.05 (1.03-1.075)		
Sex (I = F, 0 = M)	.1603	.0009 ^c	0.12 (0.03-0.37)	.5446	1.27 (0.59-2.75)	.1253	.0138 ^c	0.31 (0.12-0.757)	.2924	1.35 (0.78-2.349)		
CBS >6 (I = Y, 0 = N)	.4443	.0062 ^c	0.17 (0.04-0.53)	.0042 ^c	0.31 (0.13-0.68)	.2458	.0392 ^c	0.37 (0.13-0.917)	.0884	0.61 (0.35-1.075)		
Clot location (proximal vs distal)	.2907	.0031 ^c	0.15 (0.04-0.46)	.0034 ^c	3.38 (1.52-7.87)	.2509	.0184 ^c	0.33 (0.12-0.796)	.0275 ^c	1.95 (1.08-3.57)		
Time to scan (min) ^b	.2738	.0013 ^c	0.13 (0.03-0.39)	.526	0.81 (0.43-1.54)	.3089	.0176 ^c	0.30 (0.10-0.772)	.215	0.72 (0.42-1.201)		
Mean blood pressure (mm Hg)	.1732	.0011 ^c	0.13 (0.03-0.38)	.9872	1.00 (0.98-1.01)	.1716	.0136 ^c	0.31 (0.12-0.754)	.6825	1.00 (0.99-1.011)		
Hyperglycemia (I = Y, 0 = N)	.1713	.0012 ^c	0.13 (0.03-0.39)	.8989	0.94 (0.40-2.34)	.1407	.0163 ^c	0.32 (0.12-0.779)	.052	2.06 (1.01-4.353)		
Hypertension (I = Y, 0 = N)	.1661	.0012 ^c	0.13 (0.03-0.38)	.0677	2.06 (0.95-4.52)	.1563	.0158 ^c	0.32 (0.12-0.774)	.3944	1.28 (0.72-2.292)		
Diabetes (I = Y, 0 = N)	.1947	.0008 ^c	0.12 (0.03-0.36)	.1446	2.20 (0.81-7.06)	.1622	.0141 ^c	0.31 (0.12-0.759)	.8477	0.93 (0.44-1.963)		
High cholesterol (I = Y, 0 = N)	.2301	.0009 ^c	0.12 (0.03-0.37)	.084	2.09 (0.93-5.01)	.1685	.0113 ^c	0.30 (0.11-0.730)	.1794	1.47 (0.84-2.579)		
CAD (I = Y, 0 = N)	.172	.0011 ^c	0.13 (0.03-0.38)	.8382	1.10 (0.45-2.92)	.1716	.0134 ^c	0.31 (0.11-0.753)	.6478	1.16 (0.61-2.213)		
Smoking (I = Y, 0 = N)	.1693	.0011 ^c	0.13 (0.03-0.38)	.8381	1.11 (0.43-3.10)	.1203	.0123 ^c	0.30 (0.11-0.741)	.0317 ^c	0.41 (0.18-0.907)		
Total ischemic volume ^b	.5354	.0804	0.31 (0.07-1.03)	.0002 ^c	2.21 (1.49-3.44)	.2083	.0795	0.42 (0.15-1.069)	.104	1.20 (0.97-1.516)		
	P Value	P Value	Coefficient (SE)	P Value	Coefficient (SE)	P Value	P Value	Coefficient (SE)	P Value	Coefficient (SE)		
Final infarct												
Age (yr)	.4954	<.0001 ^c	-1.193 (0.279)	.5418	-0.006 (0.009)	.0059 ^c	.0004 ^c	-1.936 (0.532)	.2641	-0.013 (0.012)		
Sex (I = F, 0 = M)	.5	<.0001 ^c	-1.129 (0.282)	.3424	-0.253 (0.266)	.0149 ^c	.0005 ^c	-1.891 (0.530)	.2035	-0.417 (0.327)		
CBS >6 (I = Y, 0 = N)	.777	.0005 ^c	-0.988 (0.277)	.0028 ^c	-0.828 (0.272)	.0276 ^c	.0026 ^c	-1.605 (0.526)	.0021 ^c	-1.005 (0.322)		
Clot location (proximal vs distal)	.5474	.0001 ^c	-1.082 (0.273)	.0052 ^c	0.733 (0.259)	.0139 ^c	.0006 ^c	-1.845 (0.527)	.0611	0.640 (0.339)		
Time to scan (min) ^b	.4649	<.0001 ^c	-1.186 (0.281)	.7007	0.092 (0.240)	.0178 ^c	.0005 ^c	-1.956 (0.555)	.6617	-0.133 (0.304)		
Mean blood pressure (mm Hg)	.5062	<.0001 ^c	-1.173 (0.279)	.8499	0.001 (0.005)	.0064 ^c	.0005 ^c	-1.893 (0.533)	.9879	0.000 (0.006)		
Hyperglycemia (I = Y, 0 = N)	.5442	<.0001 ^c	-1.189 (0.279)	.6784	0.134 (0.322)	.0063 ^c	.0005 ^c	-1.883 (0.532)	.6762	-0.184 (0.440)		
Hypertension (I = Y, 0 = N)	.4939	<.0001 ^c	-1.170 (0.279)	.7926	0.072 (0.273)	.0075 ^c	.0003 ^c	-1.934 (0.530)	.155	-0.476 (0.333)		
Diabetes (I = Y, 0 = N)	.4969	<.0001 ^c	-1.206 (0.278)	.2792	0.361 (0.332)	.0069 ^c	.0005 ^c	-1.895 (0.532)	.8336	0.097 (0.463)		
High cholesterol (I = Y, 0 = N)	.4991	<.0001 ^c	-1.178 (0.278)	.73	0.097 (0.279)	.0058 ^c	.0005 ^c	-1.881 (0.532)	.4746	-0.237 (0.330)		
CAD (I = Y, 0 = N)	.5048	<.0001 ^c	-1.182 (0.278)	.5834	0.174 (0.316)	.0083 ^c	.0004 ^c	-1.920 (0.532)	.3594	0.343 (0.373)		
Smoking (I = Y, 0 = N)	.4949	<.0001 ^c	-1.177 (0.278)	.9008	0.040 (0.324)	.0043 ^c	.0003 ^c	-1.940 (0.531)	.2146	-0.557 (0.447)		

Note:—CAD indicates coronary artery disease; Y, yes; N, no; Recan+, recanalization-positive; Recan-, recanalization-negative; SE, standard error; pos., positive; neg., negative.
^a Significance is $P < .0125$.
^b Natural log-transformation was applied for normalizing the distribution.
^c P value is significant

On-line Table 3: Multivariate analysis and model comparison^a

	Recan-				Recan+			
	Coefficient	SE	OR (95% CI)	P Value	Coefficient	SE	OR (95% CI)	P Value
Baseline NIHSS ^b								
M1: with collateral: R ² = 27.5%, SSE = 49.71, MSE = 0.30					R ² = 23.0%, SSE = 83.62, MSE = 0.40			
tPA vs non-tPA	0.1983	0.087	—	.024 [§]	0.3224	0.1033	—	.0021 [§]
Collateral pos. vs neg.	-0.4605	0.0932	—	<.0001 [§]	-0.4357	0.1421	—	.0025 [§]
Age (yr)	—	—	—	—	0.0092	0.0033	—	.0051 [§]
CBS >6 (I = Y, 0 = N)	-0.3158	0.0918	—	.0007 [§]	-0.4414	0.0899	—	<.0001 [§]
High cholesterol (I = Y, 0 = N)	0.208	0.0879	—	.0192 [§]	—	—	—	—
M2: with total ischemic: R ² = 33.3%, SSE = 45.93, MSE = 0.29					R ² = 22.5%, SSE = 82.89, MSE = 0.40			
tPA vs non-tPA	0.1824	0.0853	—	.002 [§]	0.2966	0.105	—	.0052 [§]
Age (yr)	—	—	—	—	0.0106	0.0033	—	.0013 [§]
CBS >6 (I = Y, 0 = N)	-0.0554	0.1054	—	<.0001 [§]	-0.437	0.0924	—	<.0001 [§]
High cholesterol (I = Y, 0 = N)	0.2391	0.0868	—	.0453 [§]	—	—	—	—
Total ischemic ^c	0.2876	0.0453	—	<.0001 [§]	0.0922	0.0324	—	.0048 [§]
M3: with collateral and total ischemic: R ² = 36.5%, SSE = 43.31, MSE = 0.27					R ² = 24.5%, SSE = 80.74, MSE = 0.39			
tPA vs non-tPA	0.1803	0.084	—	.0024 [§]	0.3216	0.1045	—	.0024 [§]
Collateral pos. vs neg.	-0.2863	0.0973	—	<.0001 [§]	-0.3508	0.1502	—	.0205 [§]
Age (yr)	—	—	—	—	0.0093	0.0033	—	.0048 [§]
CBS >6 (I = Y, 0 = N)	-0.063	0.1038	—	.0002 [§]	-0.3958	0.0931	—	<.0001 [§]
High cholesterol (I = Y, 0 = N)	0.2432	0.0857	—	.0175 [§]	—	—	—	—
Total ischemic ^c	0.2306	0.0483	—	<.0001 [§]	0.0782	0.0326	—	.0173 [§]
Hemorrhagic transformation ^d								
M1: with collateral: R ² = 5.7%, -2 log-likelihood = 222.42					R ² = 11.2%, -2 log-likelihood = 267.44			
tPA vs non-tPA	0.3423	0.3276	1.41 (0.74–2.69)	.2961	0.358	0.3602	1.43 (0.71–2.95)	.3202
Collateral pos. vs neg.	-0.3743	0.3463	0.69 (0.35–1.34)	.2798	-1.0343	0.472	0.36 (0.14–0.88)	.0284 [§]
CBS >6 (I = Y, 0 = N)	-0.7706	0.3446	0.46 (0.23–0.90)	.0253 [§]	—	—	—	—
Clot location (proximal vs distal)	—	—	—	—	0.3996	0.1557	2.22 (1.21–4.12)	.0102 [§]
Hyperglycemia (I = Y, 0 = N)	—	—	—	—	1.1226	0.3884	3.07 (1.45–6.70)	.0039 [§]
mRS >2 ^e								
M1: with collateral: R ² = 19.2%, -2 log-likelihood = 144.66					R ² = 11.9%, -2 log-likelihood = 267.17			
tPA vs non-tPA	0.4121	0.4189	1.51 (0.66–3.45)	.3253	0.5162	0.3526	1.68 (0.85–3.39)	.1432
Collateral pos. vs neg.	-1.8696	0.6442	0.15 (0.04–0.48)	.0037 [§]	-0.8809	0.5085	0.41 (0.14–1.08)	.0832
Age (yr)	0.0414	0.0146	1.04 (1.01–1.07)	.0046 [§]	0.0486	0.0116	1.05 (1.03–1.08)	<.0001 [§]
Clot location (proximal vs distal)	0.632	0.2151	3.54 (1.56–8.50)	.0033 [§]	—	—	—	—
M2: with total ischemic: R ² = 22.4%, -2 log-likelihood = 137.06					R ² = 12.7%, -2 log-likelihood = 265.05			
tPA vs non-tPA	0.3106	0.4443	1.36 (0.56–3.26)	.4845	0.446	0.3512	1.56 (0.79–3.14)	.2041
Age (yr)	0.0433	0.0153	1.04 (1.02–1.08)	.0047 [§]	0.0514	0.0117	1.05 (1.03–1.08)	<.0001 [§]
Clot location (proximal vs distal)	0.3188	0.2349	1.89 (0.75–4.82)	.1748	—	—	—	—
Total ischemic ^c	0.8811	0.2315	2.41 (1.57–3.91)	.0001 [§]	0.252	0.1159	1.29 (1.04–1.64)	.0296 [§]
M3: with collateral and total ischemic: R ² = 24.1%, -2 log-likelihood = 132.82					R ² = 13.4%, -2 log-likelihood = 263.44			
tPA vs non-tPA	0.2558	0.4482	1.29 (0.53–3.11)	.5683	0.4889	0.3557	1.63 (0.82–3.31)	.1693
Collateral pos. vs neg.	-1.183	0.6882	0.31 (0.07–1.06)	.0856	-0.651	0.5242	0.52 (0.18–4.41)	.2142
Age (yr)	0.042	0.0153	1.04 (1.01–1.08)	.0059 [§]	0.0498	0.0117	1.05 (1.03–1.08)	<.0001 [§]
Clot location (proximal vs distal)	0.3397	0.2396	1.97 (0.77–5.14)	.1562	—	—	—	—
Total ischemic ^c	0.707	0.2444	2.03 (1.29–3.38)	.0038 [§]	0.2153	0.1174	1.24 (0.99–1.58)	.0666
Final infarct ^f								
M1: with collateral: R ² = 16.5%, SSE = 353.55, MSE = 2.42					R ² = 14.7%, SSE = 745.47, MSE = 4.31			
tPA vs non-tPA	0.0739	0.2605	—	.777	0.8317	0.3743	—	.0276 [§]
Collateral pos. vs neg.	-0.9885	0.2766	—	.0005 [§]	-1.6049	0.5259	—	.0026 [§]
CBS >6 (I = Y, 0 = N)	-0.8281	0.272	—	.0028 [§]	-1.0048	0.3218	—	.0021 [§]
M2: with total ischemic: R ² = 26.6%, SSE = 313.52, MSE = 2.13					R ² = 13.5%, SSE = 755.11, MSE = 4.39			
tPA vs non-tPA	0.1159	0.2436	—	.635	0.6994	0.3759	—	.0645
CBS >6 (I = Y, 0 = N)	-0.0796	0.2946	—	.7875	-0.9503	0.3317	—	.0047 [§]
Total ischemic ^c	0.7739	0.1306	—	<.0001 [§]	0.3042	0.1153	—	.0091 [§]
M3: with collateral and total ischemic: R ² = 28.0%, SSE = 304.37, MSE = 2.11					R ² = 16.9%, SSE = 725.22, MSE = 4.24			
tPA vs non-tPA	0.0881	0.2438	—	.7185	0.8063	0.3716	—	.0314 [§]
Collateral pos. vs neg.	-0.4945	0.2798	—	.0793	-1.4074	0.5301	—	.0087 [§]
CBS >6 (I = Y, 0 = N)	-0.1096	0.2946	—	.7105	-0.8366	0.3288	—	.0118 [§]
Total ischemic ^c	0.6743	0.1409	—	<.0001 [§]	0.251	0.1151	—	.0305 [§]

Note:—SSE indicates sum of squared errors; MSE, mean squared error; Recan+, recanalization-positive; Recan-, recanalization-negative; SE, standard error; pos., positive; neg., negative; Y, yes; N, no; —, not applicable.

^a F = (Drop in SSE/Number of Extra Variables) / s² for full model, where SSE was the sum of squared errors and s² was the mean squared error. For bleed and poor outcome binary variables, the likelihood ratio test statistic was determined by -2 log-likelihood for the null model (M1 or M2 and the +2 log-likelihood for the alternative model [M3] under χ^2 distribution. Degrees of freedom equal the difference between the number of parameters of the alternative model and the null model. For baseline NIHSS and final infarct outcomes, we used the F-test for comparing nested models of M3 vs M2 and M3 vs M1.

^b Model comparisons based on F-test: Recan-: M3 vs M1: P = .0019; M3 vs M2: P = .0141; Recan+: M3 vs M1: P = .0250; M3 vs M2: P = .0447.

^c Natural log-transformation was applied for normalizing distribution; P < .05 was considered significantly different.

^d Model comparisons based on F-test: Recan-: M3 vs M1: P = .0585; M3 vs M2: P = .0759; Recan+: M3 vs M1: P = .6468; M3 vs M2: P = .0393 (On-line Table 4).

^e Model comparisons based on F-test: Recan-: M3 vs M1: P = .0006; M3 vs M2: P = .0395; Recan+: M3 vs M1: P = .0534; M3 vs M2: P = .2045.

^f Model comparisons based on F-test: Recan-: M3 vs M1: P = .0054; M3 vs M2: P = .0950; Recan+: M3 vs M1: P = .0824; M3 vs M2: P = .0448.

[§] Indicates a significant P value.

On-line Table 4: Models 2 and 3 from multivariate analysis for HT

	Recan-				Recan+			
	Coefficient	SE	OR (95% CI)	P Value	Coefficient	SE	OR (95% CI)	P Value
Hemorrhagic transformation ^a								
M2: with total ischemic: $R^2 = 7.3\%$, -2 log-likelihood = 221.99					$R^2 = 9.5\%$, -2 log-likelihood = 271.48			
tPA vs non-tPA	0.3213	0.3303	1.38 (0.72–2.65)	.3307	0.2647	0.3515	1.30 (0.66–2.63)	.04513
CBS >6 (1 = Y, 0 = N)	-0.407	0.3992	0.67 (0.30–1.45)	.3079	–	–	–	–
Clot location (proximal vs distal)	–	–	–	–	0.3968	0.1562	2.21 (1.20–4.11)	.0111 ^c
Hyperglycemia (1 = Y, 0 = N)	–	–	–	–	1.1007	0.3839	3.01 (1.43–6.50)	.0041 ^c
Total ischemic volume ^b	0.3809	0.1926	1.63 (1.20–2.29)	.048 ^c	0.1051	0.1099	1.11 (0.90–1.40)	.3388
M3: with collateral and total ischemic: $R^2 = 7.7\%$, -2 log-likelihood = 218.84					$R^2 = 11.3\%$, -2 log-likelihood = 267.23			
tPA vs non-tPA	0.3692	0.3324	1.51 (0.80–2.90)	.2667	0.3483	0.3607	1.42 (0.71–2.92)	.3343
Collateral pos. vs neg.	-0.0875	0.3783	0.92 (0.44–1.94)	.8173	-0.9825	0.4852	0.37 (0.14–0.95)	.0429 ^c
CBS >6 (1 = Y, 0 = N)	-0.3783	0.4007	0.67 (0.30–1.45)	.3451	–	–	–	–
Clot location (proximal vs distal)	–	–	–	–	0.3901	0.1572	2.18 (1.18–4.07)	.0131 ^c
Hyperglycemia (1 = Y, 0 = N)	–	–	–	–	1.1184	0.3886	3.06 (1.44–6.68)	.004 ^c
Total ischemic volume ^a	0.3848	0.2115	1.62 (1.15–2.38)	.0688	0.0504	0.1107	1.05 (0.85–1.32)	.6491

Note:— indicates not applicable; Recan+, recanalization-positive; Recan-, recanalization-negative; SE, standard error; pos., positive; neg., negative; Y, yes; N, no.

^a For baseline NIHSS and final infarct outcomes, we used the *F*-test for comparing nested models of M3 vs M2 and M3 vs M1. Model comparisons based on log-likelihood ratio test: Recan-: M3 vs M1: $P = .0585$; M3 vs M2: $P = .0759$; Recan+: M3 vs M1: $P = .6468$; M3 vs M2: $P = .0393$.^c

^b Natural log-transformation was applied for normalizing distribution; $P < .05$ was considered significantly different.

^c *P* value is significant.