

**Supplementary Table 1.** Demographic and Clinical Characteristics of Patients before Excluded Missing Data.

	Available cases	Values
Demographic data		
Age (years)	783	67.15 ± 12.90
Sex (male, n.%)	783	502 (64.11)
Risk factors		
Smoking (n.%)	783	198 (25.29)
Hypertension (n.%)	783	460 (58.75)
Diabetes (n.%)	783	140 (17.88)
Atrial fibrillation (n.%)	783	103 (13.15)
Previous stroke (n.%)	783	87 (11.11)
Laboratory findings		
Total cholesterol (mmol/L)	718	4.76 ± 1.20
Triglycerides (mmol/L)	718	1.65 ± 1.31
HDL cholesterol (mmol/L)	718	1.10 ± 0.26
LDL cholesterol (mmol/L)	718	2.91 ± 0.89
HbA1c values (%)	658	6.51 ± 1.39
Eosinophil (admission)	733	0.10 (0.05-0.16)
Eosinophil (24 hours)	739	0.07 (0.02-0.13)
Eosinophil (percent changes, %)	695	-25.00 (-69.57-+14.29)
NLR (admission)	733	2.25 (1.50-3.63)
NLR (24 hours)	739	3.38 (2.33-5.33)
NLR (percent changes, %)	695	+41.03 (-5.43-+127.47)
Blood pressure		
Systolic blood pressure (mmHg)	747	160.16 ± 25.19
Diastolic blood pressure (mmHg)	747	89.95 ± 15.24
Clinical characteristics		
Premorbid mRS 0-1, n (%)	747	716 (95.85)
Admission NIHSS scores	752	6 (4-11)
TOAST subtypes, n (%)	748	
Cardioembolism		219 (29.28)
Large artery atherosclerosis		319 (42.65)
Small artery occlusion		129 (17.25)
Other/undetermined		81 (10.83)
Outcome measures	690	

Poor outcome, n (%)	193 (27.97)
Death, n (%)	69 (10.00)

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Abbreviations: HbA1c, glycated hemoglobin; NIHSS, National Institute of Health Stroke Scale.  
NLR, neutrophil-to-lymphocyte ratio; mRS, modified Rankin Scale

**Supplementary Table 2.** Demographic and Clinical Characteristics of Included Patients from Different Centers.

	<b>Center A</b> (n = 392)	<b>Center B</b> (n = 231)	<i>p</i> value
Demographic data			
Age (years)	67.69 ± 13.16	66.80 ± 12.27	0.404
Sex (male, n.%)	259 (66.07)	144 (62.33)	0.346
Risk factors			
Smoking (n.%)	106 (27.04)	60 (25.97)	0.771
Hypertension (n.%)	245 (62.50)	131 (56.70)	0.154
Diabetes (n.%)	76 (19.39)	37 (16.02)	0.292
Atrial fibrillation (n.%)	76 (19.39)	11 (4.76)	< 0.001
Previous stroke (n.%)	47 (11.99)	20 (8.65)	0.195
Laboratory findings			
Total cholesterol (mmol/L)	4.63 ± 1.06	5.14 ± 1.17	< 0.001
Triglycerides (mmol/L)	1.53 ± 1.13	1.69 ± 1.34	0.101
HDL cholesterol (mmol/L)	1.09 ± 0.26	1.11 ± 0.25	0.265
LDL cholesterol (mmol/L)	2.94 ± 0.92	2.88 ± 0.86	0.445
HbA1c values (%)	6.51 ± 1.35	6.52 ± 1.53	0.484
Blood pressure			
Systolic blood pressure (mmHg)	160.00 ± 24.97	158.33 ± 24.45	0.426
Diastolic blood pressure (mmHg)	89.24 ± 15.27	90.11 ± 15.05	0.500
Clinical characteristics			
Onset to treatment (min)	153 (121-200)	167 (122-209)	0.062
Premorbid mRS 0-1, n (%)	374 (95.41)	222 (96.10)	0.680
ASPECTS	10 (9-10)	NA	
Admission NIHSS scores	7 (5-11)	5 (3-8)	< 0.001
TOAST subtypes, n (%)			< 0.001
Cardioembolism	133 (33.93)	54 (23.38)	
Large artery atherosclerosis	154 (39.29)	108 (46.75)	
Small artery occlusion	56 (14.29)	54 (23.38)	
Other/undetermined	49 (12.50)	15 (6.49)	

Abbreviations: HbA1c, glycated hemoglobin; ASPECTS: Alberta Stroke Program Early CT score; mRS, modified Rankin Scale; NIHSS, National Institute of Health Stroke Scale.

Center A: The Third Affiliated Hospital of Wenzhou Medical University;

Center B: The First Affiliated Hospital of Wenzhou Medical University

**Supplementary Table 3.** Univariable Logistic Regression of Parameters Associated with Functional Outcomes

	Poor Outcome		Death	
	Odds ratios (95% CI)	<i>p</i> value	Odds ratios (95% CI)	<i>p</i> value
Age (years)	1.062 (1.044-1.080)	< 0.001	1.117 (1.080-1.154)	< 0.001
Sex (male)	0.592 (0.412-0.851)	0.005	0.419 (0.240-0.720)	0.002
Current smoking	0.489 (0.313-0.766)	0.002	0.312 (0.131-0.743)	0.009
Hypertension	2.156 (1.462-3.180)	< 0.001	1.271 (0.711-2.271)	0.419
Diabetes	1.423 (0.916-2.211)	0.116	0.751 (0.344-1.636)	0.470
Atrial fibrillation	2.060 (1.286-3.301)	0.003	2.872 (1.525-5.407)	0.001
Previous stroke	2.154 (1.278-3.630)	0.004	1.720 (0.801-3.694)	0.164
Total cholesterol	0.968 (0.823-1.140)	0.698	0.874 (0.669-1.141)	0.321
Triglycerides	0.736 (0.687-0.923)	0.008	0.559 (0.351-0.890)	0.014
HDL cholesterol	1.464 (0.725-2.954)	0.288	1.656 (0.553-4.958)	0.367
LDL cholesterol	1.061 (0.866-1.302)	0.566	0.900 (0.635-1.255)	0.534
Systolic blood pressure	1.010 (1.003-1.018)	0.005	1.006 (0.995-1.017)	0.295
Diastolic blood pressure	0.995 (0.983-1.007)	0.390	0.998 (0.979-1.016)	0.805
ASPECTS	0.523 (0.411-0.665)	< 0.001	0.476 (0.360-0.629)	< 0.001
Admission NIHSS scores	1.250 (1.199-1.303)	< 0.001	1.287 (1.217-1.362)	< 0.001

Abbreviations: ASPECTS: Alberta Stroke Program Early CT score; NIHSS, National Institute of Health Stroke Scale.

ASPECTS was only available in Center A.

**Supplementary Table 4.** Adjusted Odds Ratios of Adverse Outcomes According to Eosinophil changes After Intravenous Thrombolysis (Center A with ASPECTS recorded)

Outcomes	Increase or no change (n = 135)	0 < decrease ≤ 25% (n = 64)	25% < decrease ≤ 50% (n = 61)	50% < decrease ≤ 75% (n = 42)	75% < decrease ≤ 100% (n = 90)	Each 10% decrease in Eosinophils
Poor outcome (n.%)	19 (14.07)	11 (17.18)	17 (27.87)	17 (40.48)	53 (58.89)	
Crude Model	1	1.267 (0.563-2.850)	2.359 (1.125-4.947)	4.152 (1.895-9.904)	8.745 (4.604-16.611)	1.152 (1.097-1.210)
Model 1	1	1.272 (0.552-2.931)	2.770 (1.252-5.825)	3.699 (1.633-8.379)	8.417 (4.291-16.509)	1.143 (1.087-1.202)
Model 2	1	1.243 (0.516-2.992)	2.763 (1.232-6.199)	3.589 (1.509-8.533)	7.854 (3.806-16.209)	1.130 (1.072-1.191)
Model 3	1	1.225 (0.475-3.157)	2.659 (1.123-6.295)	2.906 (1.147-7.358)	3.639 (1.588-8.335)	1.074 (1.020-1.132)
Model 4	1	1.304 (0.509-3.342)	2.590 (1.088-6.168)	2.686 (1.030-7.007)	3.541 (1.519-8.254)	1.072 (1.017-1.130)
Death (n.%)	2 (1.48)	3 (4.68)	0 (0)	4 (9.52)	28 (31.11)	
Crude Model	1	3.270 (0.533-20.078)	NA	7.000 (1.235-39.692)	30.032 (6.934-130.079)	1.402 (1.241-1.585)
Model 1	1	3.042 (0.530-21.069)	NA	5.590 (0.964-32.413)	25.777 (5.817-114.223)	1.377 (1.210-1.567)
Model 2	1	2.308 (0.298-17.856)	NA	4.947 (0.807-30.337)	21.505 (4.679-98.851)	1.356 (1.179-1.562)
Model 3	1	3.339 (0.278-40.029)	NA	9.199 (0.949-89.145)	11.967 (1.691-84.667)	1.235 (1.065-1.431)
Model 4	1	3.657 (0.318-42.100)	NA	5.047 (0.513-49.618)	8.059 (1.197-54.274)	1.177 (1.017-1.362)

Model 1, adjusted for age, sex.

Model 2, adjusted for age, sex, current smoking, history of hypertension, atrial fibrillation, stroke, triglycerides.

Model 3, adjusted for Model 2 and further adjusted for admission NIHSS scores

Model 4, adjusted for Model 3 and further adjusted for ASPECTS scores.

**Supplementary Table 5.** Adjusted Odds Ratios of Adverse Outcomes According to Eosinophil changes After Intravenous Thrombolysis in 690 Patients with Follow-up Data.

Outcomes	Increase or no change	0 < decrease ≤ 25%	25% < decrease ≤ 50%	50% < decrease ≤ 75%	75% < decrease ≤ 100%	Each 10% decrease in Eosinophils
Poor outcome						
Model 5	1	0.905 (0.423-1.932)	1.756 (0.423-1.932)	2.321 (0.927-3.325)	2.991 (1.686-5.309)	1.053 (1.019-1.087)
Model 6	1	0.883 (0.428-1.822)	1.449 (0.785-2.674)	1.717 (0.866-3.405)	2.754 (1.556-4.875)	1.038 (1.006-1.071)
Model 7	1	0.868 (0.436-1.727)	1.375 (0.735-2.571)	1.408 (0.691-2.867)	2.641 (1.497-4.661)	1.014 (0.990-1.038)
Death						
Model 5	1	5.496 (1.009-29.935)	2.117 (0.335-13.371)	10.201 (2.246-46.331)	15.261 (3.671-63.454)	1.193 (1.087-1.310)
Model 6	1	2.952 (0.826-10.553)	0.974 (0.226-4.118)	2.453 (0.691-8.704)	6.119 (2.203-16.996)	1.126 (1.044-1.213)
Model 7	1	1.689 (0.512-5.571)	0.542 (0.100-2.937)	1.592 (0.454-5.576)	4.863 (1.916-12.345)	1.055 (0.998-1.115)

Model 5, adjusted for Model 3; replaced missing data with the lowest 25th percentile of the entire cohort.

Model 6, adjusted for Model 3; replaced missing data with the 50th percentile of the entire cohort.

Model 7, adjusted for Model 3; replaced missing data with the highest 25th percentile of the entire cohort.

**Supplementary Table 6.** Adjusted Odds Ratios of Adverse Outcomes According to Eosinophil changes After Intravenous Thrombolysis (Excluded Patients with Tirofiban)

Outcomes	Increase or no change (n = 222)	0 < decrease ≤ 25% (n = 84)	25% < decrease ≤ 50% (n = 101)	50% < decrease ≤ 75% (n = 61)	75% < decrease ≤ 100% (n = 136)	Each 10% decrease in Eosinophils
Poor outcome (n.%)	33 (14.86)	11 (13.10)	23 (22.77)	21 (34.43)	71 (52.21)	
Crude Model	1	0.863 (0.414-1.798)	1.689 (0.932-3.059)	3.007 (1.578-5.729)	6.256 (3.795-10.314)	1.112 (1.073-1.154)
Model 1	1	0.858 (0.403-1.828)	1.784 (0.964-3.299)	2.726 (1.390-5.349)	5.966 (3.523-10.105)	1.104 (1.063-1.147)
Model 2	1	0.762 (0.345-1.685)	1.761 (0.929-3.339)	2.551 (1.257-5.178)	5.429 (3.097-9.516)	1.092 (1.051-1.135)
Model 3	1	0.655 (0.275-1.561)	1.587 (0.798-3.157)	1.758 (0.808-3.826)	2.536 (1.331-4.832)	1.042 (1.004-1.082)
Death (n.%)	3 (1.35)	4 (4.76)	1 (1.00)	5 (8.20)	41 (30.15)	
Crude Model	1	3.650 (0.799-16.667)	0.730 (0.075-7.105)	6.518 (1.512-28.098)	31.505 (9.520-104.259)	1.341 (1.222-1.471)
Model 1	1	3.774 (0.796-17.887)	0.779 (0.078-7.731)	5.704 (1.282-25.373)	29.657 (8.662-101.541)	1.321 (1.198-1.456)
Model 2	1	2.890 (0.535-15.614)	0.836 (0.083-9.436)	5.435 (1.181-25.001)	28.256 (7.927-100.722)	1.307 (1.178-1.449)
Model 3	1	2.894 (0.443-18.891)	0.824 (0.070-9.696)	4.590 (0.823-25.601)	14.910 (3.645-64.154)	1.194 (1.073-1.329)

Model 1, adjusted for age, sex.

Model 2, adjusted for age, sex, current smoking, history of hypertension, atrial fibrillation, stroke and triglycerides.

Model 3, adjusted for Model 2 and further adjusted for admission NIHSS scores.

**Supplementary Table 7.** Adjusted Odds Ratios of Adverse Outcomes at 3-month According to NLR

	Poor Outcome		Death	
	Odds ratios (95% CI)	<i>p</i> value	Odds ratios (95% CI)	<i>p</i> value
Admission NLR (per 1-point increase)				
Crude Model	1.060 (0.993-1.132)	0.079	1.100 (1.011-1.197)	0.027
Model 1	1.064 (0.993-1.141)	0.080	1.113 (1.014-1.222)	0.025
Model 2	1.070 (0.996-1.150)	0.064	1.123 (1.021-1.236)	0.017
Model 3	1.068 (0.988-1.154)	0.097	1.195 (1.068-1.338)	0.002
24 hours NLR (per 1-point increase)				
Crude Model	1.265 (1.190-1.345)	< 0.001	1.342 (1.250-1.440)	< 0.001
Model 1	1.250 (1.170-1.335)	< 0.001	1.312 (1.212-1.420)	< 0.001
Model 2	1.251 (1.168-1.339)	< 0.001	1.324 (1.217-1.441)	< 0.001
Model 3	1.172 (1.089-1.260)	< 0.001	1.278 (1.162-1.405)	< 0.001
Each 10% increase in NLR within 24h				
Crude Model	1.029 (1.018-1.140)	< 0.001	1.034 (1.021-1.047)	< 0.001
Model 1	1.026 (1.015-1.038)	< 0.001	1.028 (1.014-1.042)	< 0.001
Model 2	1.026 (1.015-1.038)	< 0.001	1.028 (1.014-1.043)	< 0.001
Model 3	1.015 (1.002-1.027)	0.020	1.017 (1.001-1.034)	0.040
NLR increase > 100% versus ≤ 100%				
Crude Model	2.927 (2.018-4.247)	< 0.001	5.139 (2.861-9.233)	< 0.001
Model 1	2.755 (1.858-4.087)	< 0.001	4.428 (2.364-8.293)	< 0.001
Model 2	2.819 (1.875-4.236)	< 0.001	4.336 (2.288-8.216)	< 0.001
Model 3	1.924 (1.208-3.064)	0.006	2.378 (1.142-4.952)	0.021

Model 1, adjusted for age, sex.

Model 2, adjusted for age, sex, current smoking, history of hypertension, atrial fibrillation, stroke and triglycerides.

Model 3, adjusted for Model 2 and further adjusted for admission NIHSS scores.