

Supplementary Materials

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Figure S1. Interactions between the TyG index and END or ENI.

Figure legend: A: END₂; B: END₄; C: ENI;

Table S1. Absolute risks for early neurological outcomes in different TyG index tertile groups.

TyG tertiles	With END₂	Without END₂	Total	Absolute risk	Absolute risk difference (95% CI %)
Lowest	21	205	226	9.3%	Ref
Medium	21	206	227	9.3%	0.4 (-3.9 to 4.8)
Highest	47	176	223	21.1%	11.8 (5.2 to 18.3);
TyG tertiles	With END₄	Without END₄	Total	Absolute risk	Absolute risk difference (95% CI %)
Lowest	13	189	226	5.8%	Ref
Medium	14	213	227	6.2%	0.4 (-3.9 to 4.8)
Highest	34	213	223	15.2%	9.5 (3.9 to 15.1)
TyG tertiles	With ENI	Without ENI	Total	Absolute risk	Absolute risk difference 95% CI (%)
Lowest	171	73	226	75.5%	Ref
Medium	171	56	227	75.3%	0.35 (-7.6 to 8.3)
Highest	150	55	223	67.3%	0.4 (-3.9 to 4.8)

Abbreviations: TyG = Triglyceride-glucose; END = Early neurological deterioration; ENI = Early neurological improvement; CI = confidence interval;

Table S2. Association between TyG index and END₂

	Model 3		Model 4		Model 5	
	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value
TyG index	1.82 (1.32-2.51)	<0.001	1.92 (1.39-2.66)	<0.001	1.92 (1.38-2.66)	<0.001
TyG tertiles		<0.001		<0.001		<0.001
Lowest	Ref		Ref		Ref	
Medium	1.00 (0.52-1.90)		1.04 (0.54-2.00)		1.03 (0.53-1.99)	
Highest	2.62 (1.49-4.62)		2.95 (1.65-5.26)		2.88 (1.61-5.17)	
TyG binary classification						
Lowest to medium	Ref		Ref		Ref	
Highest	2.63 (1.66-4.16)	<0.001	2.89 (1.80-4.64)	<0.001	2.84 (1.77-4.58)	<0.001

Model 3 = adjusted for age, sex, regular alcohol user, **previous stroke; coronary artery disease** and statin use;

Model 4 = adjusted for age, sex, hypertension, atrial fibrillation, coronary artery disease, initial NIHSS score;

Model 5 = adjusted for age, sex, regular alcohol user, statin use, atrial fibrillation, coronary artery disease, initial NIHSS score, and ASCO subtypes and previous stroke;

Abbreviations: TyG = The triglyceride-glucose; END = Early neurological deterioration; OR = odds ratios; CI = confidence interval; sICH = symptomatic intracerebral hemorrhage; NIHSS = National Institute of Health Stroke Scale; **ASCO: A (atherosclerosis) - S (small vessel disease) - C (cardioembolic)- O (other causes).**

Table S3. Association between TyG index and END₄

	Model 3		Model 4		Model 5	
	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value
TyG index	1.93 (1.33-2.80)	0.001	2.07 (1.40-3.05)	<0.001	2.07 (1.39-3.07)	<0.001
TyG tertiles		0.001		<0.001		<0.001
Lowest	Ref		Ref		Ref	
Medium	1.12 (0.51-2.47)		1.26 (0.55-2.85)		1.19 (0.53-2.70)	
Highest	3.11 (1.57-6.16)		3.87 (1.88-7.94)		3.65 (1.78-7.49)	
TyG binary classification						
Lowest to medium	Ref		Ref		Ref	
Highest	2.93 (1.70-5.05)	<0.001	3.44 (1.94-6.11)	<0.001	3.34 (1.88-5.94)	<0.001

Model 3=adjusted for age, sex, regular alcohol user, **previous stroke; coronary artery disease** and statin use;

Model 4=adjusted for age, sex, hypertension, atrial fibrillation, coronary artery disease, initial NIHSS score;

Model 5=adjusted for age, sex, regular alcohol user, **previous stroke**, statin use, atrial fibrillation, coronary artery disease, initial NIHSS score, and ASCO subtypes;

Abbreviations: TyG = Triglyceride-glucose; END = Early neurological deterioration; OR = odds ratios; CI = confidence interval; sICH = symptomatic intracerebral hemorrhage; NIHSS = National Institute of Health Stroke Scale; **ASCO: A (atherosclerosis) - S (small vessel disease) - C (cardioembolic)- O (other causes).**

Table S4. Association between TyG index and END₂ by limited to patients who did not receive thrombectomy treatment

	Unadjusted		Model 1		Model 2		Model 3		Model 4		Model 5	
	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value
TyG index	1.63 (1.14-2.34)	0.008	1.74 (1.19-2.55)	0.004	1.72 (1.00-1.06)	0.004	1.68 (1.15-2.44)	0.007	1.74 (1.20-2.54)	0.004	1.73 (1.18-2.53)	0.005
TyG tertiles		0.044		0.029		0.033		0.049		0.025		0.035
Lowest	Ref		Ref		Ref		Ref		Ref		Ref	
Medium	1.01 (0.49-2.08)		1.02 (0.48-2.15)		1.08 (0.52-2.23)		0.98 (0.47-2.05)		1.00 (0.48-2.09)		0.98 (0.47-2.08)	
Highest	1.99 (1.04-3.80)		2.14 (1.09-4.20)		2.14 (1.11-4.12)		1.96 (1.01-3.79)		2.14 (1.10-4.17)		2.07 (1.05-4.06)	
TyG binary classification												
Lowest to medium	Ref		Ref		Ref		Ref		Ref		Ref	
Highest	1.98 (1.16-3.38)	0.013	1.12 (1.22-3.70)	0.008	2.06 (1.20-3.55)	0.009	1.98 (1.15-3.40)	0.014	2.15 (1.24-3.72)	0.007	2.09 (1.20-3.64)	0.010

Model 1=adjusted for age, sex, atrial fibrillation, coronary artery disease, initial NIHSS score, ASCO subtypes, and previous stroke;

Model 2=adjusted for the minimally sufficient adjustment sets using a directed acyclic graph: age, sex, current smoker, regular alcohol user;

Model 3 = adjusted for age, sex, regular alcohol user, **previous stroke; coronary artery disease** and statin use;

Model 4 = adjusted for age, sex, hypertension, atrial fibrillation, coronary artery disease, initial NIHSS score;

Model 5 = adjusted for age, sex, regular alcohol user, statin use, atrial fibrillation, coronary artery disease, initial NIHSS score, and ASCO subtypes and previous stroke;

Abbreviations: TyG = Triglyceride-glucose; END = Early neurological deterioration; OR = odds ratios; CI = confidence interval; sICH = symptomatic intracerebral

hemorrhage; NIHSS = National Institute of Health Stroke Scale; ASCO: A (atherosclerosis) - S (small vessel disease) - C (cardioembolic)- O (other causes).

Table S5. Association between TyG index and END₄ by limited to patients who did not receive thrombectomy treatment

	Unadjusted		Model 1		Model 2		Model 3		Model 4		Model 5	
	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value
TyG index	1.62 (1.04-2.54)	0.034	1.78 (1.10-2.88)	0.019	1.72 (1.19-2.48)	0.004	1.76 (1.10-2.83)	0.019	1.78 (1.10-2.87)	0.018	1.79 (1.10-2.91)	0.02
TyG tertiles		0.182		0.119		0.033		0.166		0.174		0.139
Lowest	Ref		Ref		Ref		Ref		Ref		Ref	
Medium	1.13 (0.45-2.84)		1.21 (0.46-3.18)		1.08 (0.52-2.23)		1.11 (0.44-2.85)		1.21 (0.47-3.11)		1.19 (0.45-3.13)	
Highest	2.01 (0.87-4.62)		2.32 (0.96-5.60)		2.14 (1.11-4.12)		2.06 (0.88-4.83)		2.12 (0.90-5.00)		2.25 (0.93-5.44)	
TyG binary classification												
Lowest to medium	Ref		Ref		Ref		Ref		Ref		Ref	
Highest	1.89 (0.96-3.72)	0.067	2.11 (1.03-4.32)	0.042	2.06 (1.20-3.55)	0.009	1.94 (0.97-3.88)	0.059	2.12 (1.04-4.32)	0.04	2.06 (1.00-4.23)	0.050

Model 1=adjusted for age, sex, atrial fibrillation, coronary artery disease, initial NIHSS score, ASCO subtypes;

Model 2=adjusted for the minimally sufficient adjustment sets using a directed acyclic graph: age, sex, current smoker, regular alcohol user;

Model 3=adjusted for age, sex, regular alcohol user, **previous stroke; coronary artery disease** and statin use;

Model 4=adjusted for age, sex, hypertension, atrial fibrillation, coronary artery disease, initial NIHSS score;

Model 5=adjusted for age, sex, regular alcohol user, previous stroke, statin use, atrial fibrillation, coronary artery disease, initial NIHSS score, and ASCO subtypes;

Abbreviations: TyG = Triglyceride-glucose; END = Early neurological deterioration; OR = odds ratios; CI = confidence interval; sICH = symptomatic intracerebral hemorrhage; NIHSS = National Institute of Health Stroke Scale; ASCO: A (atherosclerosis) - S (small vessel disease) - C (cardioembolic)- O (other causes).

Table S6. Association between TyG index and END₂ apart from sICH

	Unadjusted		Model 1		Model 2		Model 3		Model 4		Model 5	
	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value
TyG index	1.76 (1.23-2.52)	0.002	1.80 (1.23-2.62)	0.002	1.79 (1.24-2.58)	0.002	1.74 (1.20-2.51)	0.003	1.85 (1.27-2.70)	0.001	1.81 (1.23-2.64)	0.002
TyG tertiles		0.002		0.003		0.002		0.003		0.002		0.003
Lowest	Ref		Ref		Ref		Ref		Ref		Ref	
Medium	1.41 (0.66-3.03)		1.42 (0.65-3.10)		1.48 (0.69-3.19)		1.39 (0.64-3.02)		1.41 (0.65-3.06)		1.41 (0.64-3.09)	
Highest	3.11 (1.55-6.21)		3.16 (1.54-6.50)		3.26 (1.61-6.59)		3.03 (1.49-6.15)		3.25 (1.59-6.64)		3.15 (1.53-6.47)	
TyG binary classification												
Lowest to medium	Ref		Ref		Ref		Ref		Ref		Ref	
Highest	2.58 (1.51-4.39)	<0.001	2.60 (1.49-4.53)	0.001	2.63 (1.53-4.52)	<0.001	2.52 (1.47-4.33)	0.001	2.69 (1.56-4.66)	<0.001	2.60 (1.49-4.53)	0.001

Model 1=adjusted for age, sex, atrial fibrillation, coronary artery disease, initial NIHSS score, ASCO subtypes, and previous stroke;

Model 2=adjusted for the minimally sufficient adjustment sets using a directed acyclic graph: age, sex, current smoker, regular alcohol user;

Model 3 = adjusted for age, sex, regular alcohol user, **previous stroke; coronary artery disease** and statin use;

Model 4 = adjusted for age, sex, hypertension, atrial fibrillation, coronary artery disease, initial NIHSS score;

Model 5 = adjusted for age, sex, regular alcohol user, statin use, atrial fibrillation, coronary artery disease, initial NIHSS score, and ASCO subtypes and previous stroke;

Abbreviations: TyG = Triglyceride-glucose; END = Early neurological deterioration; OR = odds ratios; CI = confidence interval; sICH = symptomatic intracerebral

hemorrhage; NIHSS = National Institute of Health Stroke Scale; ASCO: A (atherosclerosis) - S (small vessel disease) - C (cardioembolic)- O (other causes).

Table S7. Association between TyG index and END₄ apart from sICH

	Unadjusted		Model 1		Model 2		Model 3		Model 4		Model 5	
	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value
TyG index	1.85 (1.17-2.93)	0.009	2.05 (1.25 -3.36)	0.005	1.79 (1.24-2.58)	0.002	1.91 (1.19-3.07)	0.007	2.09 (1.28-3.42)	0.003	2.06 (1.25-3.38)	0.005
TyG tertiles		0.006		0.002		0.002		0.005		0.002		0.002
Lowest	Ref		Ref		Ref		Ref		Ref		Ref	
Medium	2.50 (0.77-8.10)		2.64 (0.79-8.80)		1.48 (0.69-3.19)		2.60 (0.79-8.52)		2.87 (0.86-9.60)		2.72 (0.81-9.07)	
Highest	5.35 (1.79-16.02)		6.87 (2.19- 21.52)		3.26 (1.61-6.59)		5.61 (1.85-17.04)		6.95 (2.23-21.73)		6.55 (2.11-20.34)	
TyG binary classification												
Lowest to medium	Ref		Ref		Ref		Ref		Ref		Ref	
Highest	3.06 (1.50-6.23)	0.002	3.60 (1.71-7.58)	0.001	2.63 (1.53-4.52)	<0.001	3.12 (1.52-6.43)	0.002	3.65 (1.73-7.71)	0.001	3.57 (1.69-7.53)	0.001

Model 1=adjusted for age, sex, atrial fibrillation, coronary artery disease, initial NIHSS score, ASCO subtypes;

Model 2=adjusted for the minimally sufficient adjustment sets using a directed acyclic graph: age, sex, current smoker, regular alcohol user;

Model 3=adjusted for age, sex, regular alcohol user, previous stroke; coronary artery disease and statin use;

Model 4=adjusted for age, sex, hypertension, atrial fibrillation, coronary artery disease, initial NIHSS score;

Model 5=adjusted for age, sex, regular alcohol user, previous stroke, statin use, atrial fibrillation, coronary artery disease, initial NIHSS score, and ASCO subtypes;

Abbreviations: TyG = Triglyceride-glucose; END = Early neurological deterioration; OR = odds ratios; CI = confidence interval; sICH = symptomatic intracerebral

hemorrhage; NIHSS = National Institute of Health Stroke Scale; ASCO: A (atherosclerosis) - S (small vessel disease) - C (cardioembolic)- O (other causes).

Table S8. Differences in baseline characteristics in patients with and without ENI

Variable	Without ENI (n = 184)	With ENI (n = 492)	P Value
Demographic characteristics			
Age, y, median (IQR)	69 (63-76)	68 (59-75)	0.053
Sex, n (%)			0.519
Male, n (%)	114 (62.0)	318 (64.6)	
Female, n (%)	70 (38.0)	174 (35.4)	
Vascular risk factors			
Current smoker, n (%)	40 (21.7)	158 (32.1)	0.008
Regular alcohol user, n (%)	15 (8.2)	47 (9.6)	0.574
Previous stroke, n (%)	25 (13.6)	77 (15.7)	0.505
Hypertension, n (%)	130 (70.7)	318 (64.6)	0.141
Diabetes, n (%)	41 (22.3)	101 (20.5)	0.618
Dyslipidemia, n (%)	65 (35.3)	141 (28.9)	0.105
Atrial fibrillation, n (%)	71 (38.6)	139 (28.3)	0.010
Coronary artery disease, n (%)	26 (14.1)	55 (11.2)	0.293
Medication use history			
Previous antiplatelet, n (%)	25 (13.6)	50 (10.2)	0.207
Previous anticoagulants, n (%)	4 (2.2)	10 (2.0)	0.909
Previous statin, n (%)	14 (7.6)	36 (7.3)	0.897
Previous antihypertension, n (%)	75 (40.8)	189 (38.4)	0.578

Previous hypoglycemic agents, n (%)	25 (13.6)	56 (11.4)	0.432
Clinical assessment			
Initial NIHSS score, median (IQR)	5 (2-12)	7 (4-12)	<0.001
Discharge NIHSS score, median (IQR)	5 (2-15)	4 (2-10)	0.041
SBP, mmHg, mean \pm SD	153 \pm 23	147 \pm 22	0.013
DBP, mmHg, median (IQR)	90 (80-100)	80 (88-98)	0.033
OTT, minute, median (IQR)	180 (136-220)	180 (120.0-210)	0.050
Thrombectomy treatment, n (%)	22 (12.0)	71 (14.4)	0.406
24hours sICH, n (%)	18 (9.8)	10 (2.0)	<0.001
Any ICH, n (%)	40 (21.7)	87 (17.7)	0.229
ASCO Stroke subtype			0.400
Atherosclerosis, n (%)	68 (37.0)	182 (37.0)	
Cardioembolic, n (%)	64 (34.8)	147 (29.9)	
Small vessel disease, n (%)	14 (20.7)	107 (21.7)	
Other causes, n (%)	38 (7.6)	56 (11.4)	
Laboratory data			
FBG, mg/dl, median (IQR)	108.1 (91.2-141.6)	101.4 (87.2-119.6)	0.001
TG, mg/dl, median (IQR)	103.6 (72.6-142.5)	97.0 (69.1-145.3)	0.512
TC, mg/dl, median (IQR)	175.4 (147.7-207.1)	172.8 (142.0-198.0)	0.133
LDL, mg/dl, median (IQR)	118.6 (92.6-144.8)	111.7 (85.9-138.4)	0.043
TyG index, mean \pm SD	8.71 \pm 0.71	8.58 \pm 0.69	0.025
TyG tertiles			0.077

Lowest, n (%)	55 (29.9)	171 (34.8)
Medium, n (%)	56 (30.4)	171 (34.8)
Highest, n (%)	73 (39.7)	150 (30.5)

Abbreviations: ENI = Early neurological improvement; IQR = Interquartile range; NIHSS = National Institute of Health Stroke Scale; SBP = systolic blood pressure; SD = Standard deviation; DBP = diastolic blood pressure; OTT = onset to treatment time; sICH = symptomatic intracerebral hemorrhage; ICH = intracerebral hemorrhage; FBG = fasting blood glucose; TG = triglyceride; TC = total cholesterol; LDL = low-density lipoprotein; TyG = Triglyceride-glucose

Table S9. Association between TyG index and ENI

	Unadjusted		Model 1		Model 2		Model 3		Model 4		Model 5	
	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value
TyG index	0.78 (0.61-0.99)	0.04	0.73 (0.56-0.94)	0.015	0.74 (0.57-0.94)	0.015	0.76 (0.59-0.97)	0.025	0.76 (0.59-0.97)	0.027	0.74 (0.57-0.95)	0.019
TyG tertiles		0.079		0.022		0.049		0.065		0.061		0.052
Lowest	Ref		Ref		Ref		Ref		Ref		Ref	
Medium	0.98 (0.64-1.51)		1.00 (0.63-1.58)		0.96 (0.62-1.47)		0.95 (0.62-1.47)		0.97 (0.63-1.50)		0.98 (0.63-1.54)	
Highest	0.66 (0.44-1.00)		0.59 (0.38-0.92)		0.63 (0.41-0.95)		0.64 (0.42-0.97)		0.64 (0.42-0.97)		0.63 (0.41-0.97)	
TyG binary classification												
Lowest to medium	Ref		Ref		Ref		Ref		Ref		Ref	
Highest	0.67 (0.47-0.95)	0.024	0.59 (0.41-0.86)	0.006	0.64 (0.45-0.92)	0.014	0.65 (0.46-0.94)	0.020	0.65 (0.45-0.93)	0.018	0.63 (0.44-0.92)	0.015

Model 1=adjusted for age, sex, initial NIHSS score, Current smoker, atrial fibrillation, SBP, DBP, OTT;

Model 2=adjusted for the minimally sufficient adjustment sets using a directed acyclic graph: age, sex, current smoker, regular alcohol user;

Model 3=adjusted for age, sex, regular alcohol user, previous stroke, coronary artery disease and statin use;

Model 4=adjusted for age, sex, hypertension, atrial fibrillation, coronary artery disease, initial NIHSS score;

Model 5=adjusted for age, sex, initial NIHSS score, current smoker, atrial fibrillation, SBP, DBP, OTT, regular alcohol user, previous stroke, coronary artery disease and statin use;

Abbreviations: TyG = Triglyceride-glucose; ENI = Early neurological improvement; OR = odds ratios; CI = confidence interval; NIHSS = National Institute of Health Stroke Scale.

Table S10. Association between TyG index and ENI by limited to patients who did not receive thrombectomy treatment

	Unadjusted		Model 1		Model 2		Model 3		Model 4		Model 5	
	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value	OR (95% CI)	p value
TyG index	0.81 (0.63-1.05)	0.114	0.75 (0.57-0.99)	0.042	0.78 (0.60-1.01)	0.062	0.79 (0.61-1.02)	0.076	0.79 (0.60-1.03)	0.076	0.78 (0.60-1.03)	0.079
TyG tertiles		0.229		0.08		0.184		0.178		0.164		0.203
Lowest	Ref		Ref		Ref		Ref		Ref		Ref	
Medium	0.87 (0.56-1.40)		0.96 (0.59-1.56)		0.88 (0.55-1.39)		0.85 (0.54-1.35)		0.88 (0.56-1.41)		0.92 (0.57-1.49)	
Highest	0.69 (0.44-1.07)		0.62 (0.38-0.99)		0.66 (0.42-1.04)		0.66 (0.42-1.03)		0.65 (0.41-1.03)		0.67 (0.42-1.08)	
TyG binary classification												
Lowest to medium	Ref		Ref		Ref		Ref		Ref		Ref	
Highest	0.73 (0.50-1.06)	0.101	0.70 (0.47-1.04)	0.079	0.71 (0.48-1.04)	0.079	0.71 (0.49-1.04)	0.08	0.70 (0.47-1.03)	0.067	0.70 (0.47-1.04)	0.079

Model 1=adjusted for age, sex, initial NIHSS score, Current smoker, atrial fibrillation, SBP, DBP, OTT;

Model 2=adjusted for the minimally sufficient adjustment sets using a directed acyclic graph: age, sex, Current smoker, regular alcohol user;

Model 3=adjusted for age, sex, regular alcohol user, previous stroke, coronary artery disease and statin use;

Model 4=adjusted for age, sex, hypertension, atrial fibrillation, coronary artery disease, initial NIHSS score;

Model 5=adjusted for age, sex, initial NIHSS score, current smoker, atrial fibrillation, SBP, DBP, OTT, regular alcohol user, previous stroke, coronary artery disease and statin use;

Abbreviations: TyG = Triglyceride-glucose; ENI = Early neurological improvement; OR = odds ratios; CI = confidence interval; NIHSS = National Institute of Health Stroke Scal; SBP = systolic blood pressure; DBP = diastolic blood pressure, OTT = onset to treatment time; ASCO: A (atherosclerosis) - S (small vessel disease) - C (cardioembolic)- O (other causes).

Table S11. Baseline characteristics in patients with and without early sICH

Variable	With sICH (n=28)	Without sICH (n=648)	P Value
Demographic characteristics			
Age, y, median (IQR)	73 (68-80)	68 (59-75)	0.003
Sex, n (%)			0.447
Male, n (%)	16 (57.1)	418 (64.2)	
Female, n (%)	12 (42.9)	232 (35.8)	
Vascular risk factors			
Current smoker, n (%)	4 (14.3)	194 (29.9)	0.075
Regular alcohol user, n (%)	2 (7.1)	60 (9.3)	0.704
Previous stroke, n (%)	4 (14.3)	98 (15.1)	0.903
Hypertension, n (%)	22 (78.6)	426 (65.7)	0.160
Diabetes, n (%)	12 (42.9)	130 (20.1)	0.004
Dyslipidemia, n (%)	5 (17.9)	202 (31.2)	0.134
Atrial fibrillation, n (%)	20 (71.4)	190 (29.3)	<0.001
Coronary artery disease, n (%)	6 (21.4)	75 (11.6)	0.202
Medication use history			
Previous antiplatelet, n (%)	3 (10.7)	72 (11.1)	1.000
Previous anticoagulants, n (%)	1 (3.6)	13 (2.0)	0.450
Previous statin, n (%)	1 (3.6)	49 (7.6)	0.674
Previous antihypertension, n (%)	10 (35.7)	254 (39.2)	0.711
Previous hypoglycemic agents, n (%)	7 (25.0)	74 (11.4)	0.062

Clinical assessment			
Initial NIHSS score, median (IQR)	12 (9-17)	6 (3-12)	<0.001
Discharge NIHSS score, median (IQR)	16 (9-36)	2 (1-6)	<0.001
SBP, mmHg, mean±SD	152±30	149±22	0.882
DBP, mmHg, median (IQR)	85 (77-99)	89 (80-98)	0.696
OTT, minute ,median (IQR)	163 (120-200)	180 (120-210)	0.467
Thrombectomy treatment, n (%)	12 (42.9)	81 (12.5)	<0.001
ASCO Stroke subtype			<0.001
Atherosclerosis, n (%)	8 (28.6)	242 (37.3)	
Cardioembolic, n (%)	19 (67.9)	192 (29.6)	
Small vessel disease, n (%)	1 (3.6)	69 (10.6)	
Other causes, n (%)	0 (0)	145 (22.4)	
Laboratory data			
FBG, mg/dl, median (IQR)	143.3 (11.2-204.2)	101.6 (88.3-122.1)	<0.001
TG, mg/dl, median (IQR)	86.3 (64.6-127.9)	100.1 (70.0-145.3)	0.287
TC, mg/dl, median (IQR)	146.2 (181.0-204.8)	173.2 (143.9-200.5)	0.485
LDL, mg/dl, median (IQR)	121.4 (94.9-142.3)	113.3 (87.0-138.8)	0.222
TyG index, mean±SD	8.87±0.69	8.61±0.70	0.064
TyG tertiles			0.030
Lowest, n (%)	9 (32.1)	217 (33.5)	
Medium, n (%)	4 (14.3)	223 (34.4)	
Highest, n (%)	15 (53.6)	208 (32.1)	

Abbreviations: sICH = symptomatic intracerebral hemorrhage; IQR = Interquartile range; NIHSS = National Institute of Health Stroke Scale; SBP = systolic blood pressure; SD = Standard deviation; DBP = diastolic blood pressure; OTT = onset to treatment time; FBG = fasting blood glucose; TG = triglyceride; TC = total cholesterol; LDL = low-density lipoprotein; TyG = Triglyceride-glucose

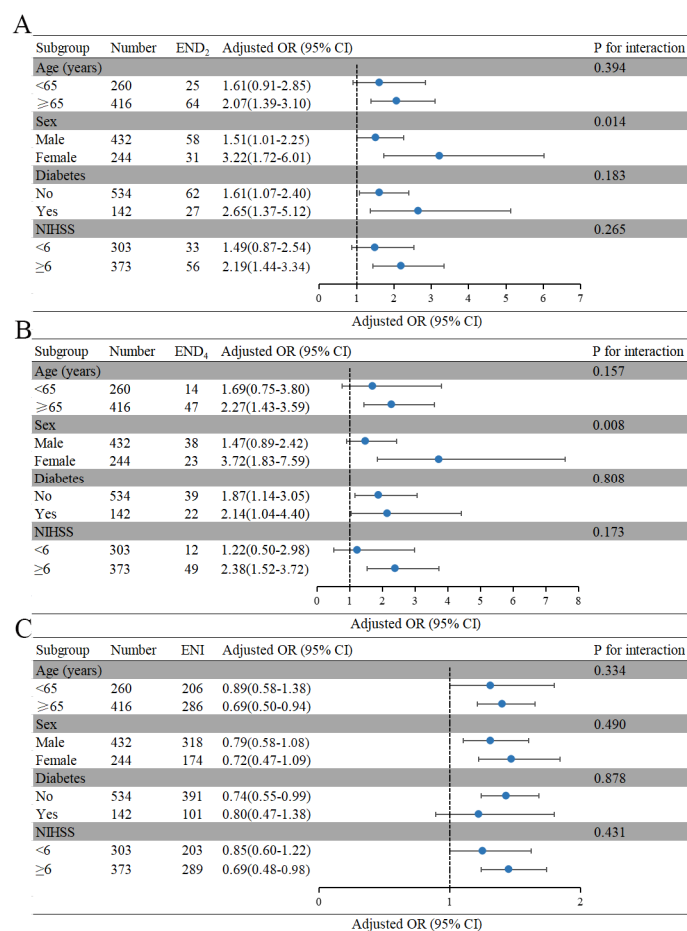


Figure S1. Interactions between the TyG index and END/ENI. Figure legend: A: END₂; B: END₄; C: ENI;

Adjusted for age, sex, hypertension, atrial fibrillation, coronary artery disease, initial NIHSS score.

Abbreviations: END = Early neurological deterioration; ENI = Early neurological improvement; TyG = Triglyceride-glucose; NIHSS = National Institute of Health Stroke Scale; OR = odds ratios; CI = confidence interval;