

Table S1 Baseline characteristics of patients with hypertension

Characteristic	No carotid plaque (n=124)	With carotid plaque (n=314)	P value
Age (years)	73.43 (8.06)	74.98 (8.03)	0.078
Gender			0.194
Male	69 (60.5)	166 (52.9)	
Female	45 (39.5)	148 (47.1)	
Hypertension grade			0.165
Grade 1	22 (19.3)	84 (26.8)	
Grade 2	45 (39.5)	98 (31.2)	
Grade 3	47 (41.2)	132 (42.0)	
Cerebrovascular event	40 (35.1)	150 (47.8)	0.026
Event type			0.88
TIA	7 (17.5)	30 (20.0)	
Cerebral thrombosis	17 (42.5)	66 (44.0)	
Cerebral embolism	16 (40.0)	54 (36.0)	
OCSF type			0.64
TACI	9 (22.5)	23 (15.3)	
PACI	9 (22.5)	45 (30.0)	
POCI	15 (37.5)	53 (35.3)	
LACI	7 (17.5)	29 (19.3)	
BMI (kg/m ²)	23.57 (4.76)	23.08 (3.77)	0.27
Smoking history	59 (51.8)	172 (54.8)	0.656
Hyperlipidemia	73 (64.0)	239 (76.1)	0.018
Diabetes	67 (58.8)	170 (54.1)	0.458
Hyperuricemia	47 (41.2)	119 (37.9)	0.608
Homocysteine	35 (30.7)	92 (29.3)	0.872
Coronary disease	33 (28.9)	93 (29.6)	0.988
Heart failure	12 (10.5)	34 (10.8)	1
COPD	12 (10.5)	27 (8.6)	0.673
Digestive ulcer	11 (9.6)	26 (8.3)	0.802
Blood disorder	1 (0.9)	13 (4.1)	0.171
Liver dysfunction	3 (2.6)	16 (5.1)	0.407

Measurement data are expressed as the mean and standard deviation; count data are expressed as the frequency and percentage. *, analysis of variance for measurement data; exact χ^2 for count data. SD, standard deviation; BMI, body mass index; COPD, chronic obstructive pulmonary disease; IPN, intraplaque neovascularization; TACI, total anterior circulation infarct; PACI, partial anterior circulation infarct; POCI, posterior circulation infarct; LACI, lacunar infarct.

Table S2 Baseline characteristics of patients with different hypertension grades

Baseline characteristic	Grade 1 hypertension (n=106)	Grade 2 hypertension (n=143)	Grade 3 hypertension (n=179)	P value*
Age (years)	74.52 (8.21)	74.67 (8.00)	74.52 (8.06)	0.985
Gender				0.227
Male	55 (51.9)	73 (51.0)	107 (59.8)	
Female	51 (48.1)	70 (49.0)	72 (40.2)	
Cerebrovascular event	27 (25.5)	49 (34.3)	114 (63.7)	0.001
Event type				0.123
TIA	6 (22.2)	11 (22.4)	20 (17.5)	
Cerebral thrombosis	7 (25.9)	26 (53.1)	50 (43.9)	
Cerebral embolism	14 (51.9)	12 (24.5)	44 (38.6)	
OCSF type				0.408
TACI	2 (7.4)	12 (24.5)	18 (15.8)	
PACI	10 (37.0)	12 (24.5)	32 (28.1)	
POCI	12 (44.4)	15 (30.6)	41 (36.0)	
LACI	3 (11.1)	10 (20.4)	23 (20.2)	
Carotid plaque	74 (69.8)	98 (68.5)	132 (73.7)	0.065
IPN grade (%)				0.046
Grade 0	24 (28.6)	27 (27.6)	30 (20.3)	
Grade 1	22 (26.2)	30 (30.6)	35 (27.7)	
Grade 2	25 (29.8)	28 (28.6)	51 (35.6)	
Grade 3	13 (15.5)	13 (13.3)	19 (16.4)	
Smoking history	62 (58.5)	71 (49.7)	98 (54.7)	0.370
Hyperlipidemia	87 (82.1)	103 (72.0)	122 (68.2)	0.037
Diabetes	59 (55.7)	80 (55.9)	98 (54.7)	0.975
Hyperuricemia	40 (37.7)	59 (41.3)	67 (37.4)	0.757
Homocysteine	34 (32.1)	37 (25.9)	56 (31.3)	0.471
Coronary disease	31 (29.2)	44 (30.8)	51 (28.5)	0.904
Heart failure	16 (15.1)	14 (9.8)	16 (8.9)	0.242
COPD	12 (11.3)	14 (9.8)	13 (7.3)	0.486
Digestive ulcer	8 (7.5)	13 (9.1)	16 (8.9)	0.897
Blood disorder	4 (3.8)	6 (4.2)	4 (2.2)	0.583
Liver dysfunction	3 (2.8)	6 (4.2)	10 (5.6)	0.543

Measurement data are expressed as the mean and standard deviation; count data are expressed as the frequency and percentage.

*, analysis of variance for measurement data; exact χ^2 for count data. SD, standard deviation; BMI, body mass index; COPD, chronic obstructive pulmonary disease; IPN, intraplaque neovascularization.

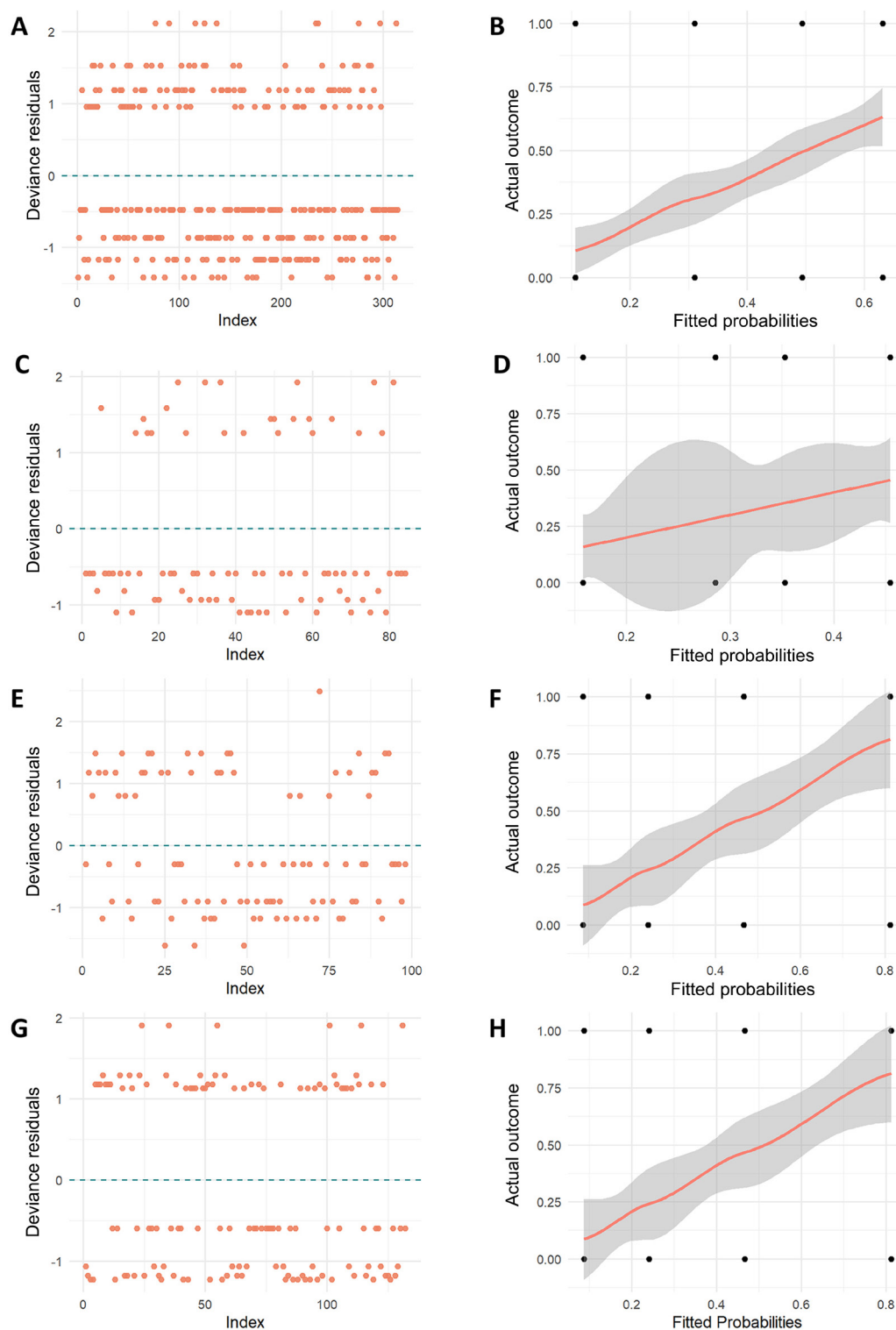


Figure S1 Evaluation of the performance and reliability of logistic regression models. (A,B) Residual plot and predicted probability plot of the logistic model for all patients with hypertension. (C,D) Residual plot and predicted probability plot of the logistic model for patients with grade 1 hypertension. (E,F) Residual plot and predicted probability plot of the logistic model for patients with grade 2 hypertension. (G,H) Residual plot and predicted probability plot of the logistic model for patients with grade 3 hypertension.