

**Leung TW *et al.*, Plaque Morphology in Acute Symptomatic Intracranial Atherosclerotic Disease****SUPPLEMENTAL MATERIALS****Table of Contents**

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**Supplemental Table 1. Demographics and vascular risk factors of patients with smooth, irregular or ulcerative plaques \***

Characteristics	Overall (N=180)	Plaque types			P values †	P values ‡
		Smooth (n=51)	Irregular (n=101)	Ulcerative (n=28)		
Age, y	60 (54-68)	61 (54-69)	61 (54-69)	59 (56-66)	0.993	0.951
Male	114 (63.3)	30 (58.8)	66 (65.3)	18 (64.3)	0.728	0.909
Current smoker	84 (46.7)	25 (49.0)	48 (47.5)	11 (39.3)	0.685	0.394
History of dyslipidemia	143 (79.4)	44 (86.3)	77 (76.2)	22 (78.6)	0.349	0.901
History of hypertension	123 (68.3)	32 (62.7)	72 (71.3)	19 (67.9)	0.564	0.953
History of diabetes	64 (35.6)	18 (35.3)	35 (34.7)	11 (39.3)	0.901	0.654
Systolic blood pressure, mmHg	150 (135-167)	152 (135-167)	150 (136-167)	149 (134-165)	0.807	0.680
Diastolic blood pressure, mmHg	81 (70-90)	83 (73-90)	81 (73-90)	80 (65-90)	0.517	0.266
Laboratory test results						
Glycosylated hemoglobin, % §	6.2 (5.6-7.2)	6.4 (5.8-7.2)	6.3 (5.6-7.5)	6.6 (6.0-7.8)	0.616	0.386
Fasting blood glucose, mmol/L §	5.8 (5.1-7.1)	5.9 (5.3-7.0)	5.5 (5.0-7.2)	6.7 (5.6-7.6)	0.037	0.047
Low-density lipoprotein, mmol/L §	3.3 (2.7-4.1)	3.7 (2.9-4.5)	3.3 (2.6-3.9)	3.4 (2.7-4.3)	0.052	0.582
High-density lipoprotein, mmol/L	1.1 (0.9-1.4)	1.2 (1.0-1.5)	1.1 (0.9-1.4)	1.1 (0.9-1.4)	0.181	0.923
Triglycerides, mmol/L	1.5 (1.1-1.9)	1.5 (1.2-1.9)	1.4 (1.0-2.1)	1.5 (1.2-1.9)	0.898	0.785

\* Values are medians (interquartile range) or numbers (%); Kruskal-Wallis tests or Wilcoxon rank sum tests were used for comparison of continuous variables and chi-square tests for categorical variables.

† P values for comparisons among the three groups.

‡ P values for comparisons between patients with an ulcerative plaque and other patients.

§ Data were missing in 35, 2 and 1 cases for the testing results of glycosylated hemoglobin, fasting blood glucose, and low-density lipoprotein, respectively.

**Supplemental Table 2. Characteristics of patients with different infarct loads in the territory of the diseased intracranial artery in the anterior circulation \***

Characteristics (n=164)	Infarct loads in the relevant territory			P values †	P values ‡
	None (n=23)	Acute infarcts only or chronic infarcts only (n=113)	Coexisting acute and chronic infarcts (n=28)		
Age, y	53 (50-59)	61 (55-70)	62 (56-69)	0.002	0.356
Male	17 (73.9)	68 (60.2)	19 (67.9)	0.398	0.592
Current smoker	13 (56.5)	47 (41.6)	17 (60.7)	0.118	0.109
History of dyslipidemia	16 (69.6)	89 (78.8)	24 (85.7)	0.375	0.317
History of hypertension	11 (47.8)	72 (63.7)	25 (89.3)	0.006	0.004
History of diabetes	3 (13.0)	43 (38.1)	13 (46.4)	0.034	0.206
Systolic blood pressure, mmHg	152 (133-166)	150 (136-165)	156 (136-169)	0.636	0.346
Diastolic blood pressure, mmHg	85 (75-90)	80 (70-89)	82 (70-92)	0.415	0.586
Laboratory test results					
Glycosylated hemoglobin, %	5.8 (5.3-6.5)	6.4 (5.8-8.4)	6.4 (6.0-7.3)	0.011	0.876
Fasting blood glucose, mmol/L	5.1 (4.9-5.9)	5.9 (5.2-7.6)	6.2 (5.2-7.2)	0.014	0.482
Low-density lipoprotein, mmol/L	3.3 (2.6-4.6)	3.4 (2.7-4.1)	3.3 (2.7-3.9)	0.816	0.668
High-density lipoprotein, mmol/L	1.3 (1.0-1.5)	1.1 (0.9-1.3)	1.2 (0.9-1.5)	0.040	0.335

Triglycerides, mmol/L	1.3 (1.0-1.6)	1.5 (1.2-2.0)	1.5 (1.2-2.1)	0.193	1.000
Location of the qualifying ICAD lesions				0.193	0.514
MCA-M1	20 (87.0)	91 (80.5)	21 (75.0)		
Terminal ICA	1 (4.3)	20 (17.7)	5 (17.9)		
Across terminal ICA and proximal MCA	2 (8.7)	2 (1.8)	2 (7.1)		
Plaque types				0.012	0.004
Smooth	8 (34.8)	36 (31.9)	5 (17.9)		
Irregular	13 (56.5)	64 (56.6)	12 (46.4)		
Ulcerative	2 (8.7)	13 (11.5)	10 (35.7)		
Arterial luminal stenosis, %	75 (71-82)	75 (71-86)	76 (70-82)	0.978	0.837

\* Values are medians (interquartile range) or numbers (%); Kruskal-Wallis tests or Wilcoxon rank sum tests were used for comparison of continuous variables and chi-square tests for categorical variables.

† P values for comparisons among the three groups.

‡ P values for comparisons between patients with coexisting acute and chronic infarcts in the relevant territory and other patients.

Abbreviations: ICAD, intracranial atherosclerotic disease; MCA-M1, M1 middle cerebral artery; ICA, internal carotid artery.

**Supplemental Table 3. Univariable logistic regression analyses for factors associated with presence of coexisting acute and chronic infarcts in the territory of the diseased intracranial artery**

Characteristics	All patients (N=180)		Patients with anterior-circulation ICAD (n=164)	
	OR (95% CI)	P values	OR (95% CI)	P values
Age, y	1.03 (0.99-1.07)	0.214	1.02 (0.98-1.07)	0.287
Male	0.89 (0.39-2.06)	0.790	1.27 (0.53-3.01)	0.593
Current smoker	1.78 (0.79-3.98)	0.162	1.96 (0.85-4.49)	0.113
History of dyslipidemia	1.75 (0.57-5.38)	0.330	1.77 (0.57-5.49)	0.322
History of hypertension	4.83 (1.40-16.68)	0.013	5.32 (1.53-18.50)	0.009
History of diabetes	1.89 (0.84-4.21)	0.122	1.70 (0.74-3.86)	0.209
Systolic blood pressure, mmHg	1.01 (1.00-1.02)	0.250	1.01 (0.99-1.03)	0.331
Diastolic blood pressure, mmHg	1.01 (0.98-1.03)	0.614	1.01 (0.98-1.04)	0.643
Laboratory test results				
Glycosylated hemoglobin, %	0.98 (0.79-1.21)	0.844	0.94 (0.75-1.17)	0.561
Fasting blood glucose, mmol/L	1.06 (0.90-1.25)	0.508	1.01 (0.85-1.21)	0.875
Low-density lipoprotein, mmol/L	0.86 (0.59-1.27)	0.457	0.88 (0.59-1.31)	0.536
High-density lipoprotein, mmol/L	1.94 (0.67-5.62)	0.222	1.75 (0.59-5.19)	0.313
Triglycerides, mmol/L	1.07 (0.76-1.51)	0.701	1.05 (0.74-1.50)	0.790
Plaque types				
Smooth/irregular	1.00		1.00	
Ulcerative	3.89 (1.57-9.66)	0.003	4.48 (1.75-11.48)	0.002

Abbreviations: ICAD, intracranial atherosclerotic disease; OR, odds ratio; CI, confidence interval.