

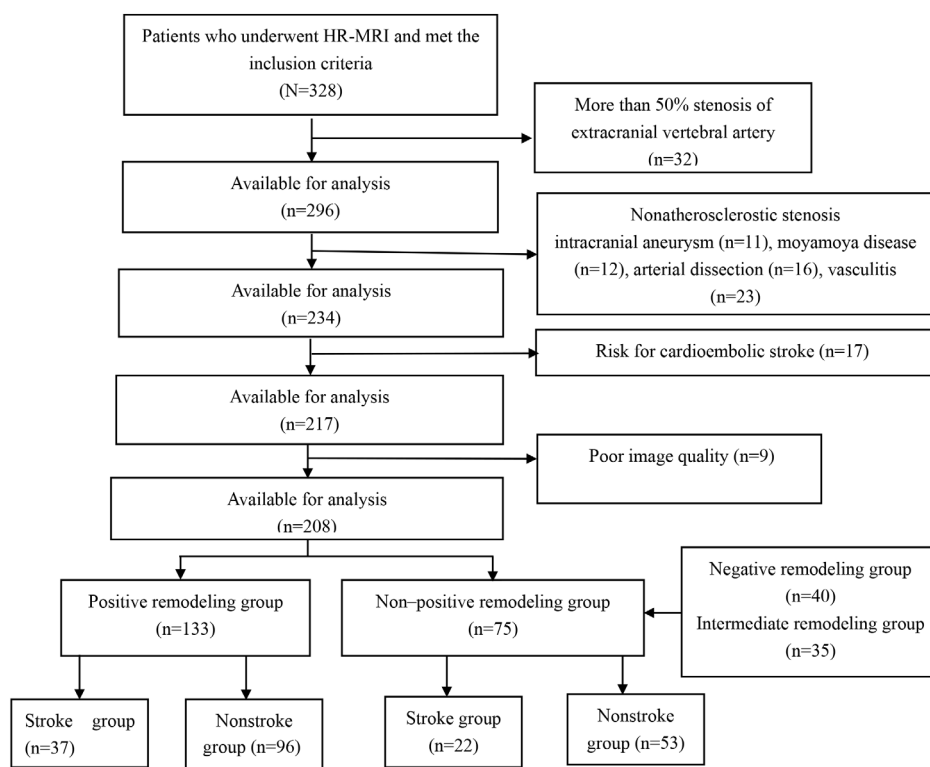


Figure S1 Flowchart of participant inclusion. HR-MRI, high-resolution magnetic resonance vessel wall imaging.

Table S1 Univariate analysis of risk factors for posterior circulation stroke in patients with luminal stenosis >30%

Characteristics	All (N=120)	Nonstroke group (n=76)	Stroke group (n=44)	OR (95% CI)	P
Age (years)	60.88 [9.15]	61.95 [8.79]	59.05 [9.55]	0.97 (0.93–1.01)	0.096
Male	92 (76.67)	63 (82.89)	29 (65.91)	0.40 (0.17–0.96)	0.040
BMI (kg/m ²), median (SD)	25.15 (2.64)	24.74 (2.64)	25.86 (2.52)	1.19 (1.02–1.39)	0.028
Smoking history	58 (48.33)	40 (52.63)	18 (40.91)	0.63 (0.29–1.33)	0.224
Medical history					
Hypertension	102 (85.00)	61 (80.26)	41 (93.18)	3.21 (0.97–15.2)	0.057
Diabetes	45 (37.50)	26 (34.21)	19 (43.18)	1.46 (0.67–3.15)	0.337
Dyslipidemia	35 (29.17)	24 (31.58)	11 (25.00)	0.73 (0.30–1.66)	0.457
Coronary heart disease	18 (15.00)	10 (13.16)	8 (18.18)	1.47 (0.51–4.10)	0.469
Previous stroke history	44 (36.67)	34 (44.74)	10 (22.73)	0.37 (0.15–0.84)	0.016
Laboratory findings					
Glucose (mmol/L)	5.46 [4.76–6.80]	5.40 [4.68–6.80]	5.59 [4.93–6.96]	1.06 (0.91–1.24)	0.424
TC (mmol/L)	3.98 [3.32–4.94]	3.87 [3.21–4.72]	4.48 [3.60–5.26]	1.42 (1.02–1.98)	0.039
TG (mmol/L)	1.44 [1.08–2.08]	1.30 [0.99–1.82]	1.64 [1.31–2.42]	1.44 (0.99–2.11)	0.057
HDL (mmol/L)	1.01 [0.25]	1.01 [0.22]	1.01 [0.29]	0.99 (0.22–4.45)	0.987
LDL (mmol/L)	2.40 [1.84–3.06]	2.30 [1.81–2.91]	2.69 [2.01–3.52]	1.44 (0.94–2.21)	0.092
HCY (mmol/L)	14.70 [12.80–16.80]	14.80 [13.02–16.80]	14.25 [12.68–16.52]	1.00 (0.95–1.05)	0.993
Imaging findings					
Luminal stenosis*	0.60 [0.46–0.84]	0.56 [0.45–0.79]	0.70 [0.51–1.00]	1.23 (1.04–1.46)	0.016
Plaque burden*	0.86 [0.80–0.95]	0.84 [0.78–0.91]	0.89 [0.84–1.00]	2.09 (1.33–3.29)	0.001
Remodeling index	1.02 [0.87–1.13]	0.98 [0.84–1.12]	1.07 [0.97–1.13]	1.53 (0.35–6.62)	0.569
Maximum plaque length (mm)	7.00 [4.09–11.46]	7.06 [4.30–11.62]	6.73 [3.63–11.23]	0.97 (0.90–1.05)	0.505
Maximum wall thickness (mm)	1.62 [1.22–2.12]	1.61 [1.13–2.12]	1.66 [1.44–2.12]	1.27 (0.74–2.17)	0.390
Ratio of maximum length to thickness	3.84 [2.50–6.49]	4.44 [2.54–6.91]	3.35 [2.23–6.15]	0.95 (0.85–1.05)	0.331
Distribution patterns					
Focal	33 (27.50)	26 (34.21)	7 (15.91)	Ref.	Ref.
Diffuse	87 (72.50)	50 (65.79)	37 (84.09)	2.69 (1.09–7.43)	0.031
Plaque enhancement					
Nonmarked enhancement	74 (61.67)	61 (80.26)	13 (29.55)	Ref.	Ref.
Marked enhancement	46 (38.33)	15 (19.74)	31 (70.45)	9.40 (4.07–23.1)	<0.001
Plaque surface					
Regular	27 (22.50)	24 (31.58)	3 (6.82)	Ref.	Ref.
Irregular	93 (77.50)	52 (68.42)	41 (93.18)	5.98 (1.90–27.6)	0.001

Table S1 (continued)

Table S1 (*continued*)

Characteristics	All (N=120)	Nonstroke group (n=76)	Stroke group (n=44)	OR (95% CI)	P
Plaque location					
Right vertebral artery	37 (30.83)	23 (30.26)	14 (31.82)	Ref.	Ref.
Left vertebral artery	44 (36.67)	35 (46.05)	9 (20.45)	0.43 (0.15–1.15)	0.093
Basal artery	39 (32.50)	18 (23.68)	21 (47.73)	1.89 (0.76–4.85)	0.172
Remodeling patterns					
Nonpositive remodeling	64 (53.33)	43 (56.58)	21 (47.73)	Ref.	Ref.
Positive remodeling	56 (46.67)	33 (43.42)	23 (52.27)	1.42 (0.67–3.03)	0.358

Data are presented as n (%), median [IQR], or mean [SD] unless otherwise indicated. *, per 10% increase odds ratio change. BMI, body mass index; CI, confidence interval; HCY, homocysteine; HDL, high-density lipoprotein; IQR, interquartile range; LDL, low-density lipoprotein; OR, odds ratio; Ref., reference; SD, standard deviation; TC, total cholesterol; TG, triglyceride.