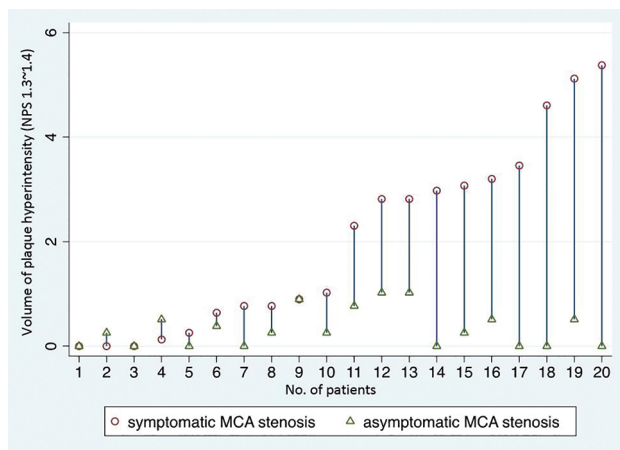


**ON-LINE FIG 1.** Summary of AUC of models tested in this study. A, NPS of  $\geq 1.2$  provided the highest AUC among tested thresholds from  $\geq 0.8$  to  $\geq 1.5$ . B, NPS 1.3~1.4 provided the highest AUC among tested thresholds from 0.8~0.9 to 1.7~1.8.



**ON-LINE FIG 2.** A paired plot of patients with bilateral MCA stenosis. The paired plot shows the volume difference of plaque hyperintensity between symptomatic MCA stenosis and asymptomatic MCA stenosis in each individual.

**On-line Table 1: Models tested for differentiation of symptomatic and asymptomatic MCA stenosis in patients with non-fat-suppressed imaging**

Factors Included in Logistic Regression Model	OR (95% CI)	AUC (95% CI)
NPS $\geq 1.3$ , per 1-mm <sup>3</sup> increase	6.73 (1.7–26.62)	0.864 (0.784–0.944)
Stenosis degree, per 10% increase	1.68 (1.04–2.71)	
Remodeling ratio, per 0.1 increase	1.23 (0.84–1.81)	
NPS 1.3~1.4, per 1-mm <sup>3</sup> increase	1.33 (1.02–1.73)	0.840 (0.744–0.937)
Stenosis degree, per 10% increase	1.82 (1.17–2.82)	
Remodeling ratio, per 0.1 increase	1.22 (0.84–1.76)	

**On-line Table 2: Models tested for differentiation of symptomatic and asymptomatic MCA stenosis**

Factors Included in Logistic Regression Model	OR (95% CI)	AUC (95% CI)
NPS $\geq 0.8$ , per 1-mm <sup>3</sup> increase	1.04 (0.98–1.1)	0.820 (0.740–0.900)
Stenosis degree, per 10% increase	2.17 (1.4–3.37)	
Remodeling ratio, per 0.1 increase	1.43 (1.04–1.97)	
Fat-suppressed imaging	2.37 (0.82–6.85)	
NPS $\geq 0.9$ , per 1-mm <sup>3</sup> increase	1.07 (0.99–1.15)	0.831 (0.753–0.909)
Stenosis degree, per 10% increase	2.06 (1.33–3.20)	
Remodeling ratio, per 0.1 increase	1.41 (1.02–1.93)	
Fat-suppressed imaging	2.56 (0.88–7.48)	
NPS $\geq 1.0$ , per 1-mm <sup>3</sup> increase	1.12 (1.02–1.24)	0.843 (0.768–0.918)
Stenosis degree, per 10% increase	2.00 (1.28–3.11)	
Remodeling ratio, per 0.1 increase	1.40 (1.02–1.93)	
Fat-suppressed imaging	2.75 (0.93–8.13)	
NPS $\geq 1.1$ , per 1-mm <sup>3</sup> increase	1.20 (1.05–1.38)	0.858 (0.785–0.930)
Stenosis degree, per 10% increase	1.96 (1.25–3.07)	
Remodeling ratio, per 0.1 increase	1.42 (1.03–1.97)	
Fat-suppressed imaging	2.82 (0.95–8.42)	
NPS $\geq 1.2$ , per 1-mm <sup>3</sup> increase	1.30 (1.06–1.58)	0.863 (0.791–0.935)
Stenosis degree, per 10% increase	1.98 (1.26–3.10)	
Remodeling ratio, per 0.1 increase	1.45 (1.05–2.00)	
Fat-suppressed imaging	2.63 (0.89–7.81)	
NPS $\geq 1.3$ , per 1-mm <sup>3</sup> increase	1.34 (1.04–1.73)	0.855 (0.780–0.930)
Stenosis degree, per 10% increase	2.05 (1.32–3.19)	
Remodeling ratio, per 0.1 increase	1.47 (1.07–2.03)	
Fat-suppressed imaging	2.51 (0.85–7.38)	
NPS $\geq 1.4$ , per 1-mm <sup>3</sup> increase	1.29 (0.98–1.72)	0.836 (0.757–0.915)
Stenosis degree, per 10% increase	2.15 (1.40–3.30)	
Remodeling ratio, per 0.1 increase	1.48 (1.08–2.04)	
Fat-suppressed imaging	2.33 (0.81–6.75)	
NPS $\geq 1.5$ , per 1-mm <sup>3</sup> increase	1.18 (0.87–1.59)	0.819 (0.737–0.900)
Stenosis degree, per 10% increase	2.26 (1.48–3.45)	
Remodeling ratio, per 0.1 increase	1.48 (1.08–2.03)	
Fat-suppressed imaging	2.13 (0.75–6.03)	
NPS 0.8~0.9, per 1-mm <sup>3</sup> increase	0.91 (0.76–1.08)	0.804 (0.724–0.885)
Stenosis degree, per 10% increase	2.57 (1.67–3.97)	
Remodeling ratio, per 0.1 increase	1.55 (1.13–2.15)	
Fat-suppressed imaging	1.89 (0.67–5.36)	
NPS 0.9~1.0, per 1-mm <sup>3</sup> increase	0.94 (0.77–1.15)	0.805 (0.724–0.886)
Stenosis degree, per 10% increase	2.52 (1.63–3.90)	
Remodeling ratio, per 0.1 increase	1.54 (1.12–2.13)	
Fat-suppressed imaging	1.94 (0.68–5.50)	
NPS 1.0~1.1, per 1-mm <sup>3</sup> increase	1.02 (0.78–1.33)	0.808 (0.728–0.889)
Stenosis degree, per 10% increase	2.42 (1.58–3.70)	
Remodeling ratio, per 0.1 increase	1.50 (1.09–2.08)	
Fat-suppressed imaging	2.06 (0.72–5.89)	
NPS 1.1~1.2, per 1-mm <sup>3</sup> increase	1.46 (0.97–2.19)	0.828 (0.750–0.906)
Stenosis degree, per 10% increase	2.15 (1.39–3.31)	
Remodeling ratio, per 0.1 increase	1.43 (1.04–1.96)	
Fat-suppressed imaging	2.61 (0.89–7.66)	
NPS 1.2~1.3, per 1-mm <sup>3</sup> increase	2.56 (1.31–4.99)	0.858 (0.789–0.927)
Stenosis degree, per 10% increase	1.96 (1.24–3.09)	
Remodeling ratio, per 0.1 increase	1.44 (1.04–2.00)	
Fat-suppressed imaging	2.62 (0.88–7.8)	
NPS 1.3~1.4, per 1-mm <sup>3</sup> increase	6.25 (1.9–20.57)	0.884 (0.822–0.945)
Stenosis degree, per 10% increase	1.99 (1.24–3.19)	
Remodeling ratio, per 0.1 increase	1.51 (1.08–2.10)	
Fat-suppressed imaging	2.88 (0.93–8.95)	
NPS 1.4~1.5, per 1-mm <sup>3</sup> increase	5.99 (1.83–19.63)	0.868 (0.802–0.934)
Stenosis degree, per 10% increase	2.16 (1.34–3.48)	
Remodeling ratio, per 0.1 increase	1.54 (1.10–2.16)	
Fat-suppressed imaging	3.11 (0.99–9.75)	
NPS 1.5~1.6, per 1-mm <sup>3</sup> increase	8.48 (1.46–49.15)	0.844 (0.772–0.916)
Stenosis degree, per 10% increase	2.09 (1.35–3.25)	
Remodeling ratio, per 0.1 increase	1.52 (1.10–2.10)	
Fat-suppressed imaging	2.53 (0.85–7.58)	

*Continued on next page*

**On-line Table 2: Continued**

Factors Included in Logistic Regression Model	OR (95% CI)	AUC (95% CI)
NPS 1.6~1.7, per 1-mm <sup>3</sup> increase	7.07 (0.97–51.52)	0.836 (0.758–0.913)
Stenosis degree, per 10% increase	2.14 (1.40–3.27)	
Remodeling ratio, per 0.1 increase	1.49 (1.08–2.05)	
Fat-suppressed imaging	2.16 (0.74–6.30)	
NPS 1.7~1.8, per 1-mm <sup>3</sup> increase	4.68 (0.58–37.43)	0.825 (0.746–0.904)
Stenosis degree, per 10% increase	2.25 (1.48–3.41)	
Remodeling ratio, per 0.1 increase	1.49 (1.08–2.04)	
Fat-suppressed imaging	2.19 (0.76–6.26)	