Supplementary Table 1. Correlation analyses between VFI parameters for the plaque downstream surface and SWE value for the plaque downstream area

VFI parameter	Asymptomatic group (n=62) Mean YM (kPa)		Symptomatic group (n=60) Mean YM (kPa)	
	r-value	P-value	r-value	P-value
WSS max (Pa)	0.111	0.393	−0.123	0.348
WSS mean (Pa)	0.151	0.241	−0.103	0.434
OSI	0.075	0.560	0.161	0.220
Tur index (%)	0.029	0.822	−0.142	0.278

VFI, vector flow imaging; SWE, shear wave elastography; YM, Young's modulus; r, Spearman's Rank correlation coefficient; WSS, wall shear stress; OSI, oscillatory shear index; Tur, turbulence.

Supplementary Table 2. Correlation analyses between VFI parameters for the plaque upstream surface and SWE value for the plaque upstream area

VFI parameter	Asymptomatic group (n=62) Mean YM (kPa)		Symptomatic group (n=60) Mean YM (kPa)	
	r-value	P-value	r-value	P-value
WSS max (Pa)	−0.209	0.103	−0.012	0.928
WSS mean (Pa)	0.011	0.933	−0.002	0.988
OSI	−0.111	0.392	−0.060	0.650
Tur index (%)	0.129	0.319	−0.114	0.388

VFI, vector flow imaging; SWE, shear wave elastography; YM, Young's modulus; r, Spearman's Rank correlation coefficient; WSS, wall shear stress; OSI, oscillatory shear index; Tur, turbulence.

Supplementary Table 3. Diagnostic performance of Tur index of downstream, mean YM of the whole plaque, and logistic regression models for prediction of ischemic stroke

Model	AUC	95% CI	Sensitivity	Specificity	P-value
Tur index of downstream	0.607	0.507–0.708	0.774	0.450	0.041*
Mean YM of the whole plaque	0.627	0.529–0.726	0.839	0.400	0.015*
Model 1	0.737	0.649–0.825	0.700	0.677	<0.001*
Model 2	0.752	0.667–0.838	0.839	0.583	<0.001*
Model 3	0.765	0.682–0.848	0.871	0.533	<0.001*

Model 1 determined associations of VFI parameters in mild stenosis with ischemic stroke. Model 2 adjusted for SWE parameter based on Model 1. Model 3 adjusted for B-mode US parameters based on model 2.

Tur, turbulence; YM, Young's modulus; AUC, area under ROC; CI, confidence interval; VFI, vector flow imaging; SWE, shear wave elastography; US, ultrasound.

*P<0.05.