Supplementary Material
Supplementary Table 1. Distribution of cardioembolic sources in 775 patients with CE.

High-risk sources	n	%	Medium-risk sources	n	%
AF	407	76.4	Patent foramen ovale	316	40.8
MS with AF	13	2.4	Spontaneous echo contrast	119	15.4
LA/appendage thrombus	55	10.3	Congestive heart failure	79	10.2
Mechanical prosthetic valve	23	4.3	Lone AF	7	0.9
Dilated cardiomyopathy	8	1.0	Hypokinetic LV segment	33	4.3
Akinetic LV segment	9	1.2	MS without AF	10	1.3
MI within 4 weeks	2	0.3	4 weeks < MI < 6 months	0	0
Sick sinus syndrome	3	0.4	Bioprosthetic heart valve	3	0.4
LV thrombus	6	0.8	Atrial septal aneurysm	11	1.4
Infective endocarditis	7	0.9	Atrial flutter	18	2.3
Atrial myxoma	0	0	Mitral valve prolapse	8	1.0
			Nonbacterial endocarditis	6	0.8
			Mitral annular calcification	10	1.3
Total	533	100	Total	620	100

Of a total of 775 study patients, patients with more than one source were also included in the cardioembolic source count. AF, atrial fibrillation; CE, cardioembolic stroke; LA, left atrial; LV, left ventricular; MI, myocardial infarction, MS, mitral stenosis.

Supplementary Table 2. Patient demographic and clinical characteristics.

_	Total (<i>n</i> =775)	Atrial fibrillation		p value	
		Yes (<i>n</i> =427)	No (<i>n</i> =348)	<u> </u>	
Age, y	65.5±12.7	69.5±10.5	60.5±13.5	< 0.001	
Sex(female)	333 (43.0)	184 (43.1)	149 (42.8)	0.939	
Hypertension	531 (68.5)	309 (72.4)	222 (63.8)	0.011	
Diabetes mellitus	192 (24.8)	107 (25.1)	85 (24.4)	0.839	
Hypercholesterolemia	151 (19.5)	79 (18.5)	72 (20.7)	0.444	
Current smoking	149 (19.2)	59 (13.8)	90 (25.9)	< 0.001	
Congestive heart failure	79 (10.2)	59 (13.8)	20 (5.7)	< 0.001	
Vascular disease	401 (51.7)	212 (49.6)	189 (54.3)	0.196	
Previous TIA/infarction	105 (13.5)	60 (14.1)	45 (12.9)	0.650	
NIHSS score at admission	3.0 [1.0, 9.0]	5.0 [2.0, 13.0]	2.0 [1.0, 5.0]	< 0.001	
mRS ≥3 at 3 months	155 (20.5)	104 (24.7)	51 (15.2)	0.001	
Recurrent stroke	77 (9.9)	58 (13.6)	19 (5.5)	< 0.001	
CHA ₂ DS ₂ -VASc score					
Mean±SD	3.1±1.7	3.4±1.7	2.7±1.7	< 0.001	
Median (IQR)	3.0 [2.0, 4.0]	3.0 [1.0, 4.0]	3.0 [2.0, 5.0]	< 0.001	
0	42 (5.4)	16 (3.7)	26 (7.5)	0.001	
1	112 (14.5)	48 (11.2)	64 (18.4)		
≥2	621 (80.1)	363 (85.0)	258 (74.1)		
ABI*	1.080±0.133	1.063±0.151	1.100±0.105	< 0.001	
Low ABI	59 (7.6)	44 (10.3)	15 (4.3)	0.002	

Data are expressed as means ± standard deviations, medians [interquartile ranges], or

numbers (%). *After obtaining bilateral ABI values, the lower value was used for the analysis. Peripheral artery disease was not considered in the CHA₂DS₂-VASc score. ABI, ankle-brachial index; mRS, modified Rankin Scale; NIHSS, National Institutes of Health Stroke Scale; TIA, transient ischemic attack.

Supplementary Table 3. Mediation analysis for evaluating the mediating effect of low ankle-brachial index between atrial fibrillation and outcomes.

Poor short-term outcome					
Effect	OR	95% CI lower	p value		
Direct effect	1.7198	1.1810–2.5043	0.00469		
Indirect effect (through low ABI)	1.0954	1.0003-1.1995	0.04926		
Total effect	1.8838	1.2881–2.7550	0.00109		
Proportion	0.1856				
Stroke recurrence					
Effect	HR	95% CI lower	p value		
Direct effect	2.1732	1.2870–3.6698	0.0037		
Indirect effect (through low ABI)	1.0650	0.9832-1.1535	0.1224		
Total effect	2.3144	1.3740-3.8982	0.0016		
Proportion	0.1074				
MACE					
Effect	HR	95% CI lower	p value		
Direct effect	1.5382	1.1317–2.0908	0.00596		
Indirect effect (through low ABI)	1.0774	1.0106–1.1486	0.02242		
Total effect	1.6573	1.2189–2.2533	0.00127		

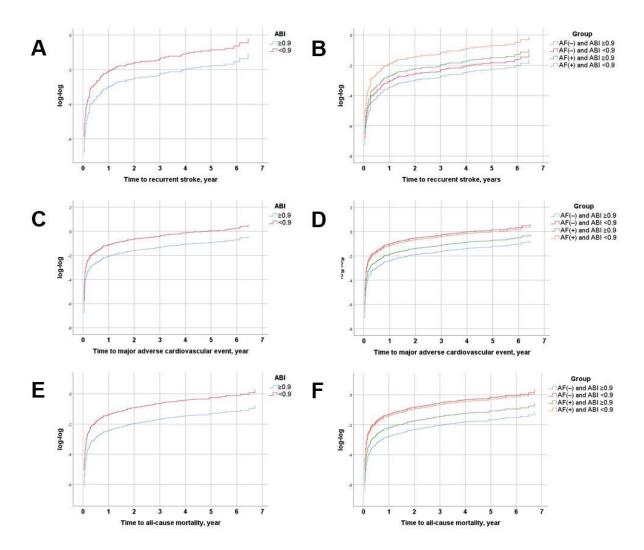
Mortality				
Effect	HR	95% CI lower	p value	
Direct effect	1.6318	1.1598–2.2958	0.00494	
Indirect effect (through low ABI)	1.0904	1.0119–1.1751	0.02320	
Total effect	1.7793	1.2634–2.5059	0.00097	
Proportion	0.1894			

CI, confidence interval; HR, hazard ratio; MACE, major adverse cardiovascular event; OR, odds ratio.

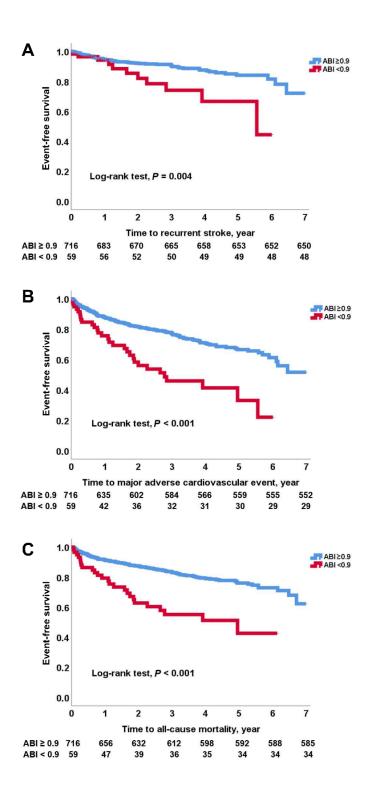
Supplementary Table 4. Mediation analysis for evaluating the mediating effect of anklebrachial index between atrial fibrillation and outcomes.

Stroke recurrence					
Effect	HR	95% CI lower	p value		
Direct effect	2.1409	1.2679–3.6152	0.0044		
Indirect effect (through ABI)	1.0779	1.0112-1.1491	0.0214		
Total effect	2.3078	1.3740-3.8982	0.0017		
Proportion	0.1276				
MACE					
Effect	HR	95% CI lower	p value		
Direct effect	1.5268	1.1232–2.0755	0.0069		
Indirect effect (through ABI)	1.0772	1.0257-1.1312	0.0029		
Total effect	1.6446	1.2106–2.2343	0.0015		
Proportion	0.1828				
Mortality					
Effect	HR	95% CI lower	p value		
Direct effect	1.6049	1.1401–2.2592	0.0067		
Indirect effect (through ABI)	1.0921	1.0328-1.1549	0.0020		
Total effect	1.7528	1.2456–2.4665	0.0013		
Proportion	0.1964				

CI, confidence interval; HR, hazard ratio; MACE, major adverse cardiovascular event.



Supplementary Figure 1. Log-log plots for recurrent stroke (A, B), major adverse cardiovascular events (C, D), and all-cause mortality (E, F). ABI, ankle-brachial index; AF, atrial fibrillation.



Supplementary Figure 2. Kaplan–Meier survival analysis for (A) recurrent stroke, (B) major adverse cardiovascular events, and (C) all-cause mortality according to ABI <0.9. ABI, ankle-brachial index.