Supplementary Table 1.Multivariable Cox proportional hazards regression analysis investigating the association between variables and outcomes (model 1).

Variables	Embolic stroke recurrence aHR (95% CI)	Ischemic stroke recurrence aHR (95% CI)	Any stroke recurrence aHR (95% CI)	Mortality aHR (95% CI)
LAA morphology	3.10 (1.10–8.73)	2.39 (0.96–5.95)	1.85 (0.80–4.29)	1.57 (0.50–4.92)
Age	1.07 (1.01–1.13)	1.06 (1.003–1.11)	1.06 (1.01–1.12)	1.03 (0.97–1.10)
Males	0.84 (0.31–2.26)	1.05 (0.42–2.64)	1.10 (0.45–2.66)	1.07 (0.33–3.47)
Baseline NIHSS score	1.03 (0.95–1.12)	1.03 (0.95–1.11)	1.02 (0.94–1.10)	1.18 (1.10–1.26)

Outcomes are presented as the hazard ratio (95% confidence interval) for values of non-chicken wing compared to chicken wing left atrial appendage morphology.

aHR, adjusted hazard ratio; LAA, left atrial appendage; NIHSS, National Institute of Health Stroke Scale

Supplementary Table 2. Multivariable Cox proportional hazards regression analysis investigating the association between variables and outcomes (model 2).

Variables	Embolic stroke recurrence aHR (95% CI)	Ischemic stroke recurrence aHR (95% CI)	Any stroke recurrence aHR (95% CI)	Mortality aHR (95% CI)
LAA morphology	2.90 (1.02–8.23)	2.33 (0.93–5.84)	1.60 (0.70–3.64)	1.66 (0.54–5.11)
CHA_2DS_2-VASc score	1.37 (0.99–1.91)	1.37 (1.003–1.86)	1.36 (1.02–1.81)	1.15 (0.80–1.64)
Number of PES				
0	Ref	Ref	Ref	Ref
1	3.28 (0.42–25.55)	3.62 (0.47–27.86)	1.85 (0.42–8.20)	1.55 (0.18–13.24)
≥ 2	2.26 (0.24–21.16)	2.45 (0.27–22.13)	1.36 (0.26–7.19)	3.10 (0.35–27.50)

Outcomes are presented as the hazard ratio (95% confidence interval) for values of non-chicken wing compared to chicken wing left atrial appendage morphology.

aHR, adjusted hazard ratio; LAA, left atrial appendage; PES, potential embolic source

Supplementary Table 3. Multivariable Cox proportional hazards regression analysis investigating the association between variables and outcomes (model 3).

Variables	Embolic stroke recurrence aHR (95% CI)	Ischemic stroke recurrence aHR (95% CI)	Any stroke recurrence aHR (95% CI)	Mortality aHR (95% CI)
LAA morphology	2.95 (1.03–8.43)	2.31 (0.91–5.83)	1.58 (0.69–3.63)	1.44 (0.44–4.71)
Hypertension	1.41 (0.48–4.10)	1.35 (0.50–3.66)	1.31 (0.52–3.33)	1.02 (0.29–3.63)
Diabetes mellitus	0.91 (0.29–2.89)	1.46 (0.54–3.95)	1.55 (0.61–3.93)	1.43 (0.39–5.25)
Hyperlipidemia	1.25 (0.47–3.32)	1.30 (0.52–3.23)	1.24 (0.53–2.92)	0.93 (0.29–2.95)
Supraventricular tachycardia or subclinical AF	1.44 (0.51–4.05)	1.19 (0.44–3.22)	1.00 (0.38–2.64)	2.76 (0.89-8.62)

Outcomes are presented as the hazard ratio (95% confidence interval) for values of non-chicken wing compared to chicken wing left atrial appendage morphology.

aHR, adjusted hazard ratio; LAA, left atrial appendage; AF, atrial fibrillation