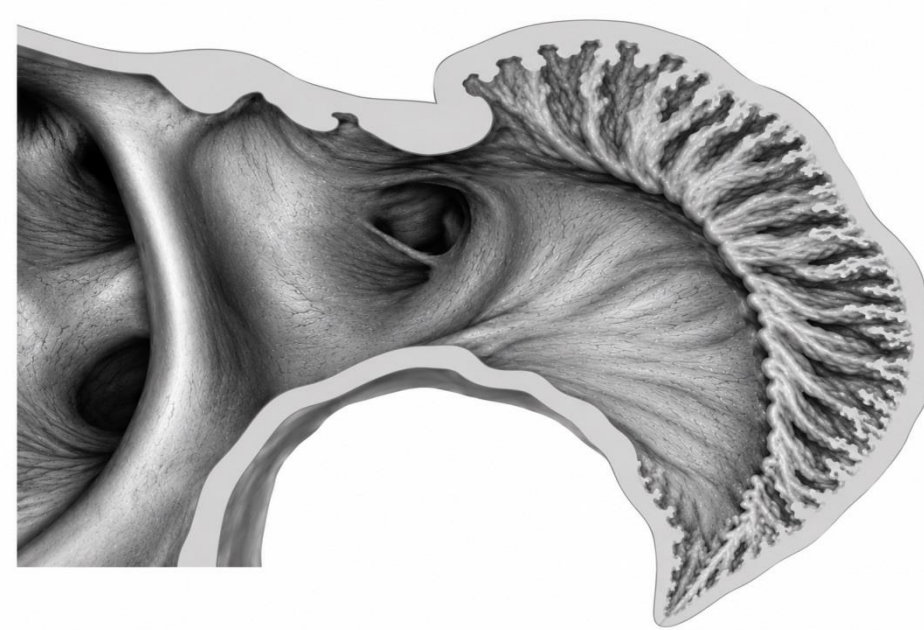




The influence of the left atrial appendage shape on the results of thoracoscopic ablation of AF

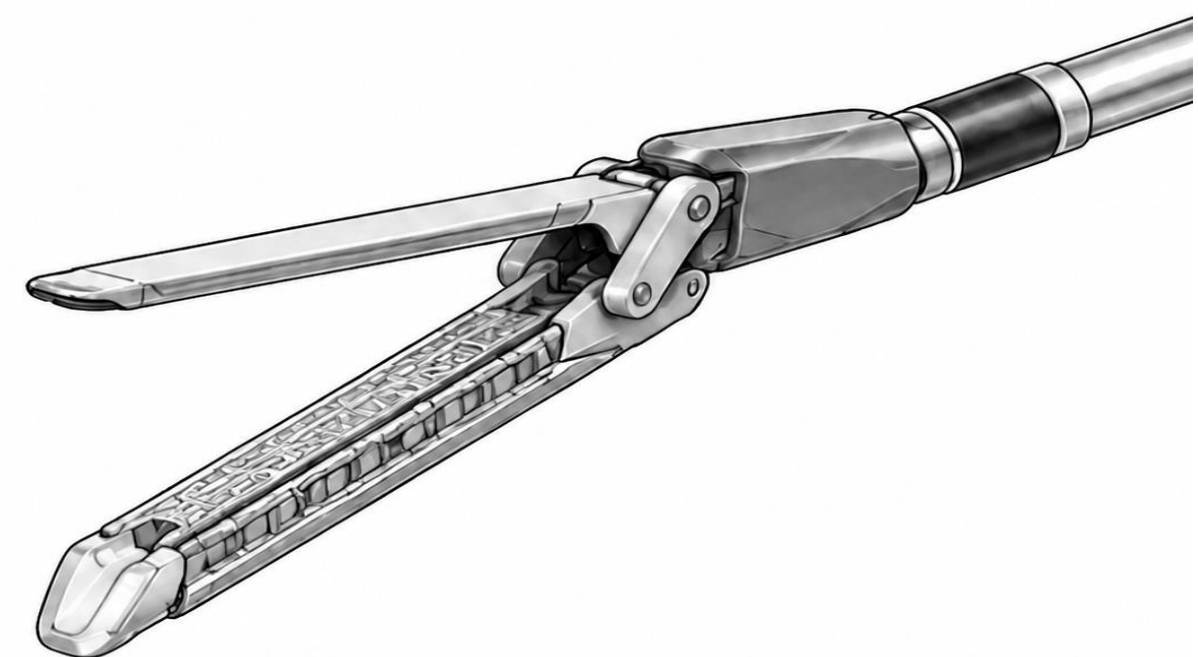
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Objection

Left atrial appendage (LAA) exclusion using an endostapler is one of the options for this procedure during thoracoscopic ablation (TSA) of AF .

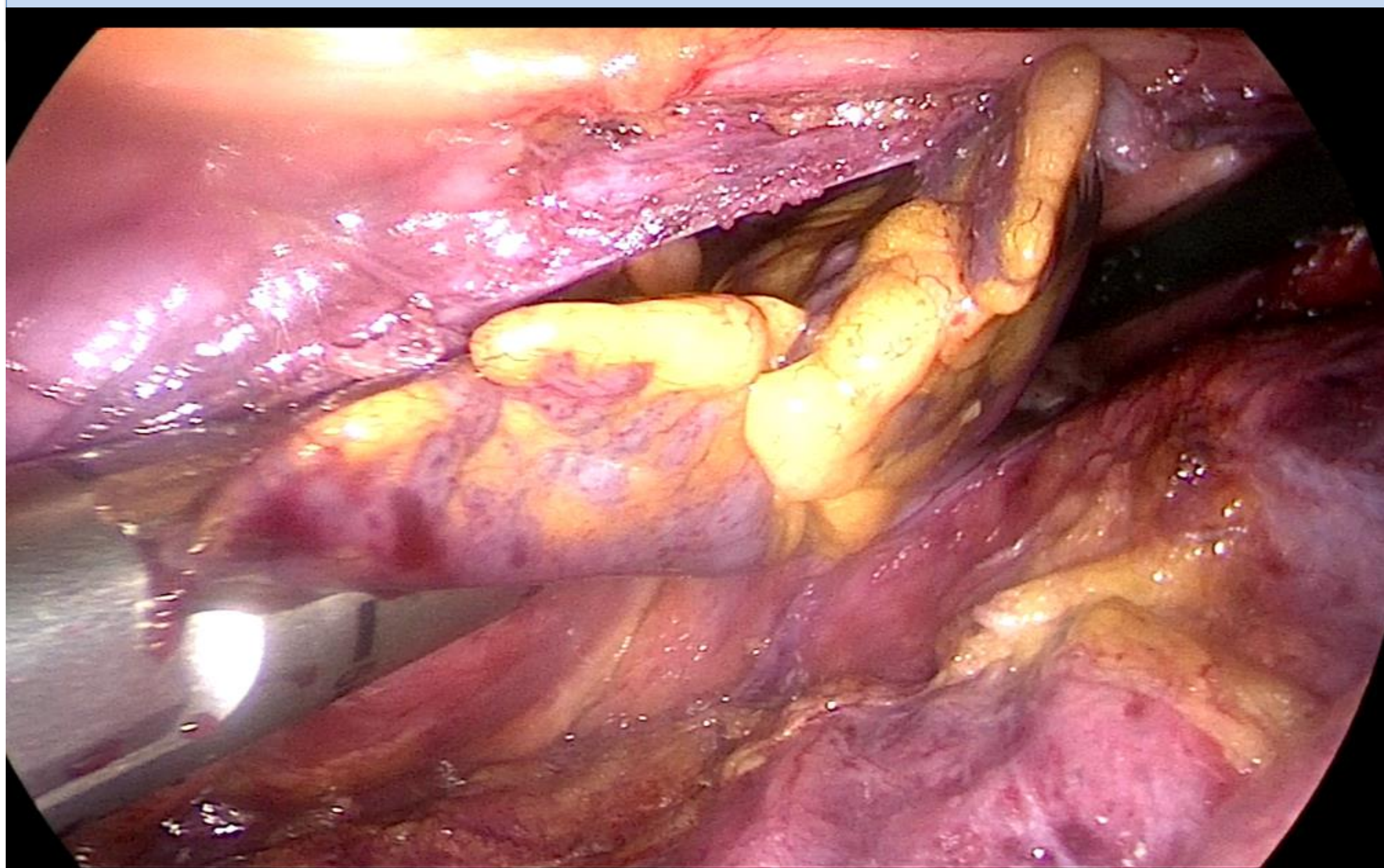


Materials and methods

Design of study

The results of LAA endostapler LAA excision were analyzed in 281 patients undergoing TSA of AF. All patients were divided into 4 groups based on LAA shape. G1 (chicken wing) - 91 (32.4%), G2 (cauliflower) - 43 (15.3%), G3 (windsock) - 69 (24.5%), G4 (cactus) - 78 (27.7%).

Surgical technique - left atrial appendage excision



RESULTS

In-hospital results

Parameters	G1 (chicken wing) - 91 (32.4%)	G2 (cauliflower) - 43 (15.3%)	G3 (windsock) - 69 (24.5%)	G4 (cactus) - 78 (27.7%).	P - value
stump depth, mm	7,01 4,91	± 7,07 4,31	± 6,58 4,35	± 4,99 4,46	± 0,02
stump length, mm	5,73 4,72	± 6,74 5,64	± 6,22 4,41	± 3,95 4,04	± 0,00 09
stump >10mm, n(%, stump – 0 mm, n(%,	69(75,8%) 8(8,8%)	30(69,8%) 4(9,3%)	55 (79,7%) 7(10,1%)	70(89%) 21(27%)	0,03 0,00 3
one-time excision	73 (80,2%)	35 (81,4%)	56 (81,2%)	60 (76,9%)	0,5
two-time excision	16 (17,6 %)	8 (18,6%)	13 (18,8%)	18 (23 %)	0,5
Three - time	2(2,2%)	0(%)	0(%)	0(%)	0,5

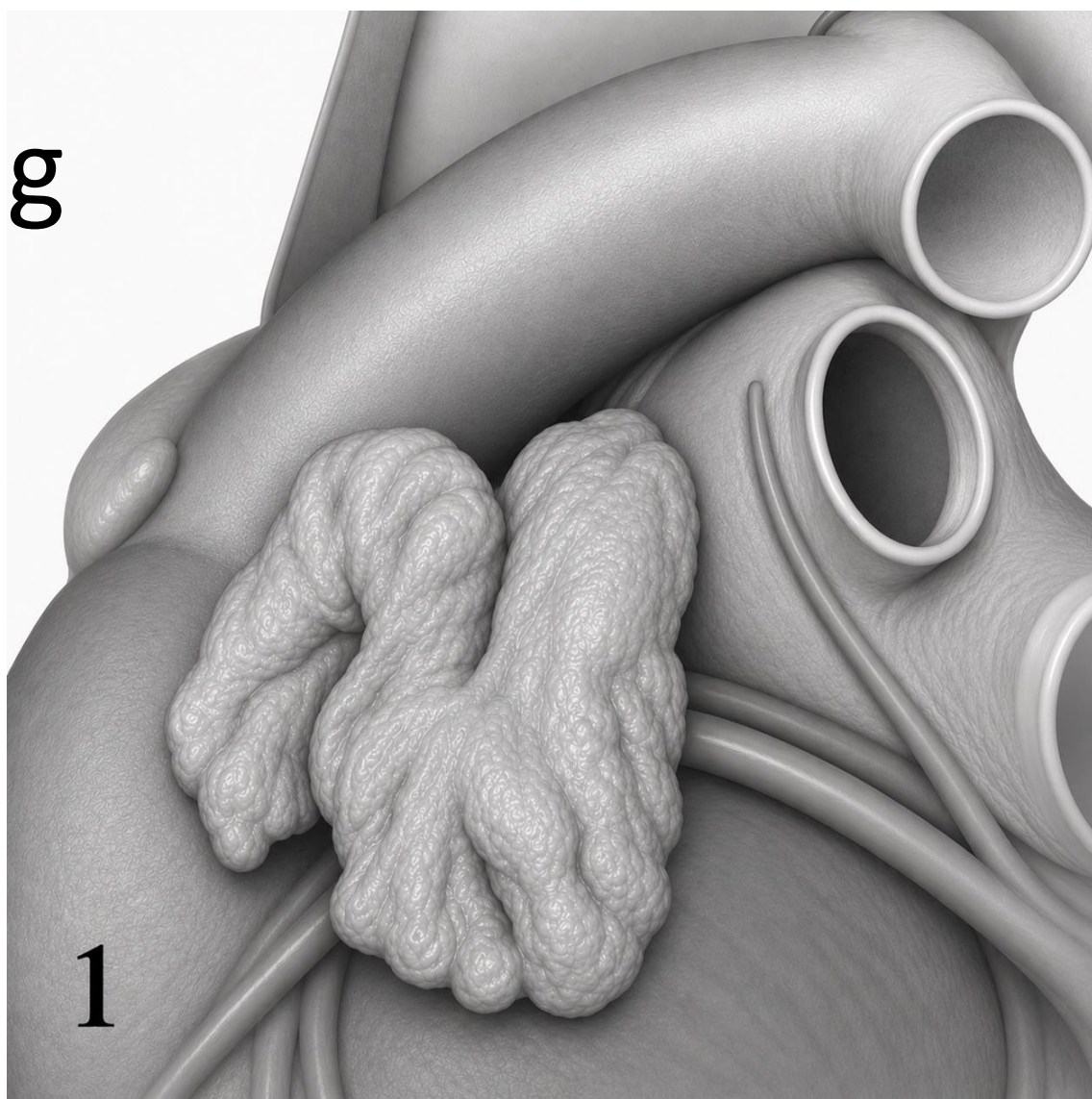
STATISTICAL DIFFERENCE!!!

CONCLUSION

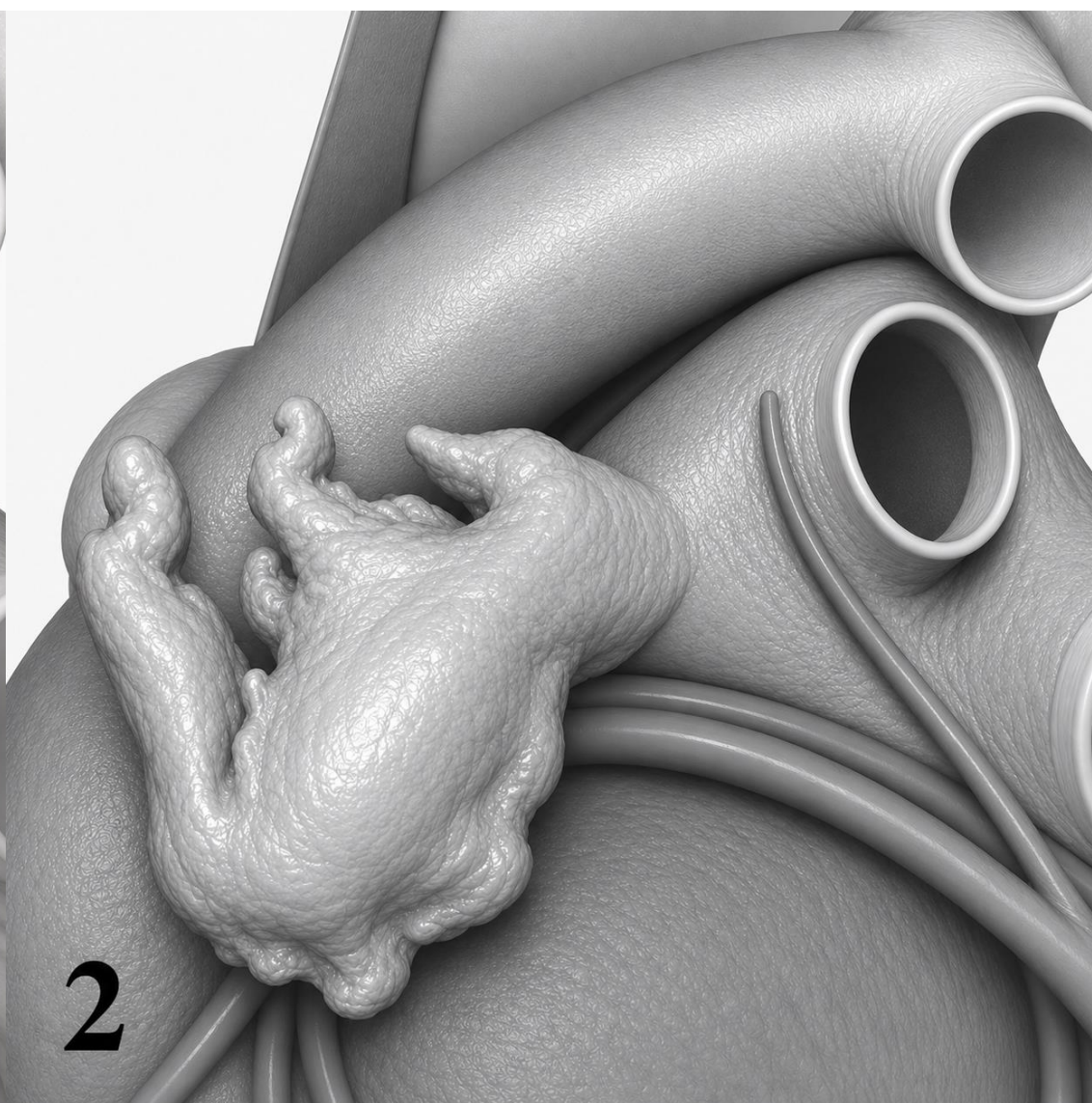
The results suggest that thoracoscopic exclusion of the LAA yields a lower risk of large stump formation, with stump dimensions typically under 10 mm. The procedure appears to be more protective in maintaining a safer, more compact appendage morphology (resembling a “cactus” shape), which may translate to improved postoperative stability and reduced thromboembolic risk.

Parameters	G1 (chicken wing) - 91	G2(cauliflower), n-43	G3(windsock) n- 69	G4 (cactus) – n- 78	P value
Age, m±SD	60,4±9,5	60,63±9,7	58,78±9,8	60,15±9,27	0,7085
Male, n(%)	61(67%)	28(65%)	49(71,0%)	52(66,7%)	0,91
BMI kg/m	28,99±3,4	29,72±3,43	30,18±4,32	29,49±3,49	0,258
Stroke, n(%)	4(5,7%)	7(9,0%)	6(6,6%)	7(16,3%)	0,326
Parox.AF, n(%)	35 (38,5%)	22 (51,2%)	28 (40,6%)	36 (46,2%)	0,568
Non-parox. AF, n(%)	56 (61,5%)	21 (48,8%)	41 (59,4%)	42 (53,8%)	
EHRA	2,91±0,2	2,86±0,4	2,93±0,26	2,95±0,22	0,412
CHA2DS3-VASc	2,41±1,17	3,07±1,5	2,55±1,02	2,64±1,29	0,066
HAS-BLED	1,10±0,55	1,26±0,76	1,04±0,55	1,19±0,63	0,262

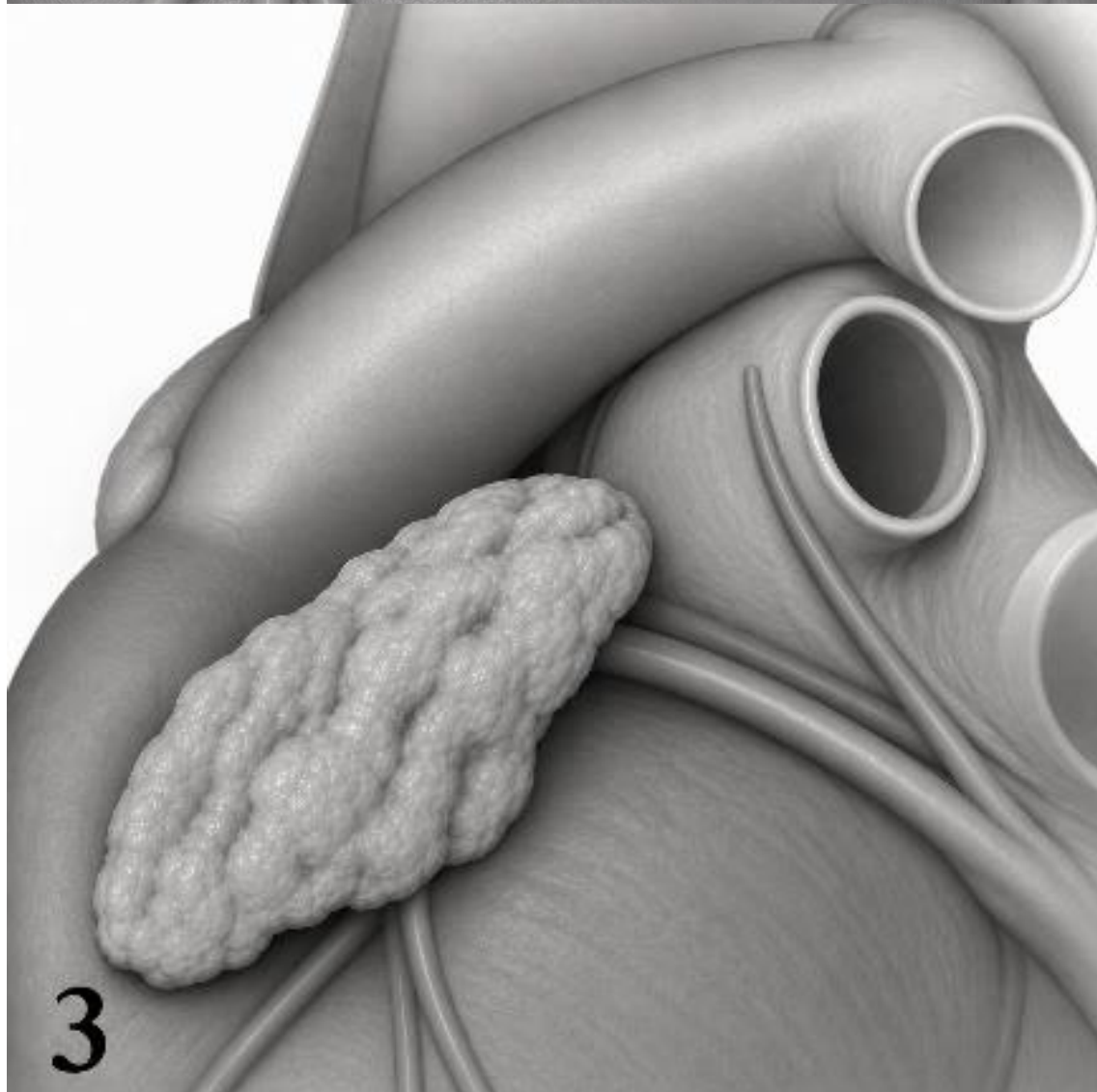
1 - chicken wing
32,4%



2 - windsock
- 24.5%



3 - Cactus
- 27.7%



4 - cauliflower
- 15.3%

