

Management Of Left Atrial Appendage Exclusion During Maze V Procedure And Cabg

Amiran Sh. Revishvili, Vadim A. Popov, Egor S. Malyshenko, Maksim A. Anishchenko, Kirill A. Kozyrin, Natalia V. Popova, Madina W.Kadirowa
A.V. Vishnevsky National Medical Research Center of Surgery, Moscow, Russia

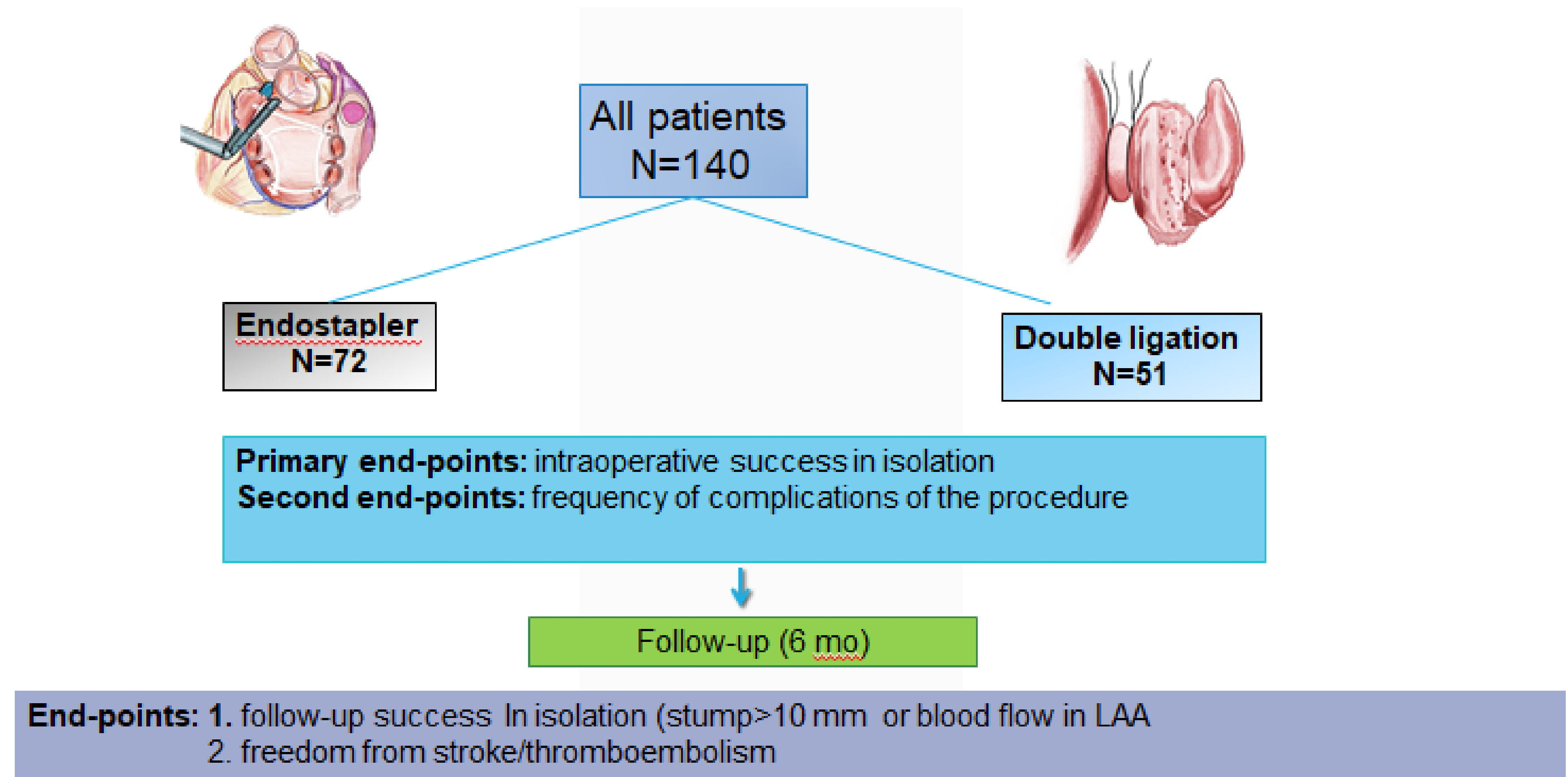
Objection

Surgical exclusion of the left atrial appendage (LAA) in concomitant Maze V procedure during CABG can reduce the risk of stroke and improve outcomes.

Materials and methods

Design of study

The study included 140 pts who underwent CABG and concomitant Maze V procedure, in whom LAA was surgically isolated.
Two groups were obtained using LAA exclusion method: double ligation (n=51, G1) and amputation with an endostapler (n=72, G2).

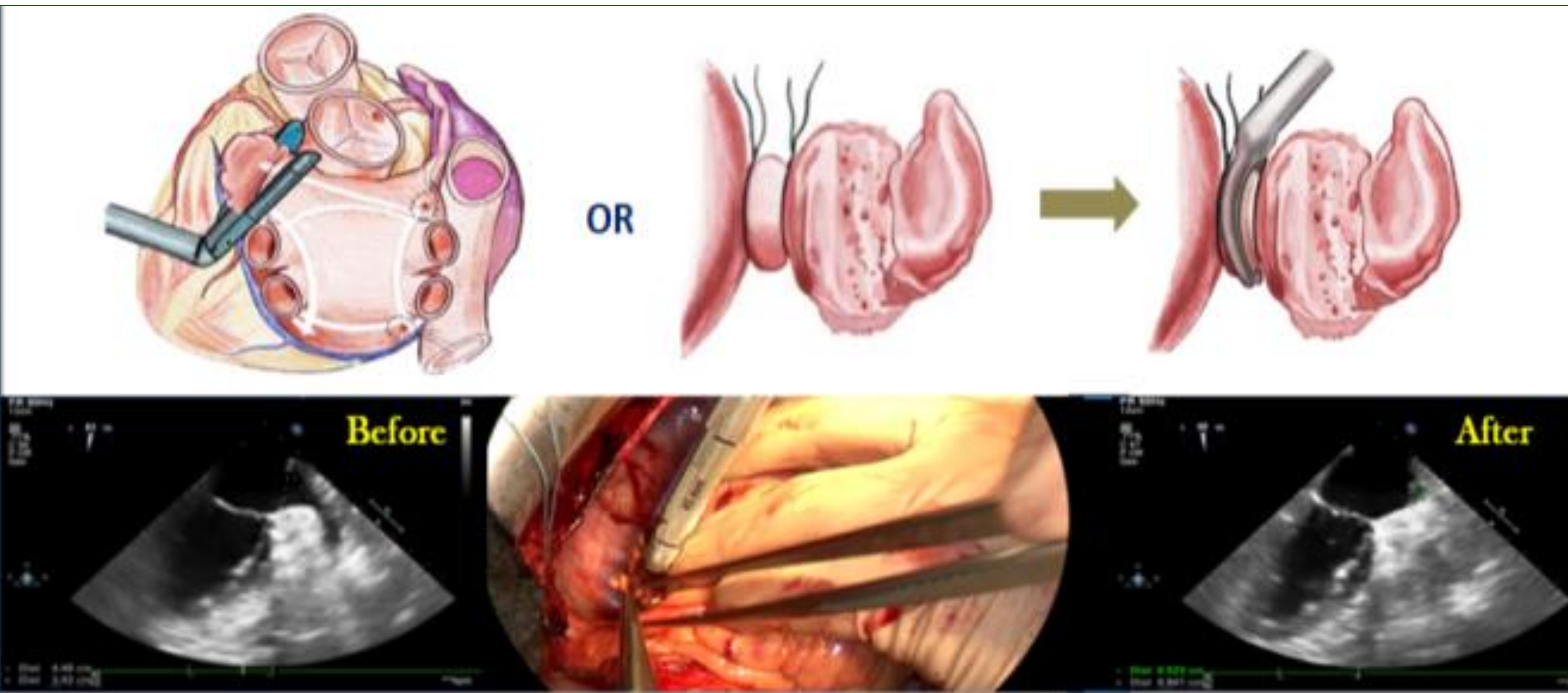


Surgical technique

- ✓ On-pump, beating heart
- ✓ Bipolar clamp
- ✓ Maze V procedure
- ✓ LAA double ligation/ Endostapler
- Convention CABG

Parameters	Double ligation(n=51)	Endostapler (n=72)	P
Age, m±SD	62,7±8,1	63±7,5	0,961
Male, n(%)	47(92,2%)	61(84,7%)	0,135
Parox.AF, n(%)	34(62,7%)	32(44,4%)	0,102
Non-parox. AF, n(%)	17(37,3%)	40(55,6%)	0,102
Stroke, n(%)	8(15,7%)	7(9,7%)	0,218
Antiarrhythmic therapy duration,n(%)	4,7±1,8	4,4±2,1	0,831
LA volume, ml, m±SD	82±28,8	84,9±33,7	0,374
LA+LAA volume(CT data),m±SD	142±62,1	144±54,9	0,511
LAA vol (CT data), m±SD	10,4±4	10,5±5,7	0,842
LA size, mm, m±SD	45±8,1	45±7,7	0,931

NO STATISTICAL DIFFERENCE!!!



Maze V: ligation and ablation or amputation of the left atrial appendage.

RESULTS

In-hospital results

Parameters	Double ligation(n=51)	Endostapler (n=72)	P
Single amputation of LAA, n(%)	-	68	-
60 mm cassette	-	56	-
45 mm cassette	-	12	-
Using an additional stapler cassette (45 mm), n(%)	-	4	-
Successful closure , n(%)	47(92,1%)	70(97,2%)	0,346
stump >10mm, n(%)	4(7,9%)	2(2,8%)	0,302
perfusion of LAA, n(%)	0	0	-

Follow-up (6 mo)

Parameters	Double ligation(n=51)	Endostapler (n=72)	P
Death	0	0	-
Stroke/TIA	0	0	-
Discontinuation of AT therapy	43(84,3%)	69 (95,8%)	0,271
AF recurrence	5(9,8%)	3(4,2%)	0,523
Successful closure , n(%)	43(84,3%)	70(97,2%)	0,041
stump >10mm, n(%)	4(7,9%)	2(2,8%)	0,302
perfusion of LAA, n(%)	4(7,9%)	0	-

CONCLUSION

Among the technologies for LAA elimination during CABG operations, it is recommended to use amputation using an endostapler.