

**P90. Mid-term Results Of Endoscopic Mitral Valve Repair In Combination With Endocardial Or Epicardial Ablation In 112 Patients**

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**OBJECTIVES:** We compared the results of endoscopic mitral valve repair in combination either with endocardial or epicardial ablation using different technical principles.

**METHODS:** Between 02/2004 and 01/2009, 325 pts underwent an endoscopic mitral valve repair. 112 pts had atrial fibrillation (34,5 %). In 78 pts (69,6 %, group I) an endocardial ablation (Cryo-technique), in 34 pts (30,4 %, group II) an epicardial ablation (RF-technique) was performed. Results were observed postoperatively, at 30 days and at 6 months after the operation.

**RESULTS:** The preoperative data showed no differences between the two groups. In group I 94,8% of pts showed no (grade 0) or mild (grade 0-1) MR at the end of operation (vs. 97% in group II; n.s.). Postoperative and follow up data regarding the results of ablation are summarized in the table below. The difference between "Free of AF" and "Sinus Rhythm" was due to AV-Block encountered during the procedure.

**CONCLUSIONS:** Both ablation techniques are safe and showed good mid-term results. In pts with excellent results of mitral valve repair the rate of pts with sinus rhythm seems to be higher with the RF epicardial group and the rate of necessary pacemaker implantations seems to be higher in the Cryo endocardial group.

Probe	# Patients	Post-OP			30 days		180 days	PM Implants
		Free of AF	SR	AV-Block	Free of AF	Free of AF		
Cryo	78 - 69.6%	64 - 82%	49 - 75.4%	15 - 24.6%	63 - 80.7%	58 - 74.3%	11 - 14.1%	
XL RF	34 - 30.4%	29 - 85.3%	26 - 89.6%	3 - 10.4%	29 - 85.3%	28 - 82.3%	2 - 5.9%	