

Séance 08:30 - 09:30

Dysfonction VG et chirurgie : une prise en charge particulière ? *Modérateurs : Guy Durand de Gevigney, Lyon - Pierre Gibelin, Nice*

- Chirurgie non cardiaque : le point de vue de l'anesthésiste Jean-Pol Depoix, Paris

- **Dysfonction VG et fuite valvulaire : jusqu'où proposer une intervention ?** *Christophe Tribouilloy, Amiens*

- **Dysfonction VG et fuite valvulaire : quelle thérapeutique ?** *Jean-François Obadia, Lyon*

RVM

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Dion

Calafiore

E2E

Conclusion





Cardiothoracic and Vascular Surgery Department Hôpital Louis Pradel LYON - France

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Braunwald hypothesis :

MV regurgitation has a "pop-off effect" for the failing ventricle; surgical correction results in prohibitive mortality



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Interventional dilemma : too early vs too late

Including class III patients might be too early :
 medical treatment is still efficient

 more precise stratification

- Including class IV patients is often too late : short term mortality is prohibitive -> accurate parameters

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Propensity score analysis (EF < 30%)



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MR with poor LV : Acute mortality is low

Number of + CABG Study Year Acute Dion patients Mortality 2005 Wu 4.8% 126 yes Calafiore **ACORN** 2006 193 1.6% no 100 8.0% 2008 Braun yes E2E Fattouch 2009 48 4.1% yes Ciarka 8.2% 2010 122 yes **RVM De Bonis** 2012 54 5.6% no

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Recurrent MR ≥ grade 2 after Downsized Annuloplasty





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Recurrence of Mitral Regurgitation Parallels the Absence of Left Ventricular Reverse Remodeling After Mitral Repair in Advanced Dilated Cardiomyopathy

Michele De Bonis, MD, Elisabetta Lapenna, MD, Alessandro Verzini, MD, Giovanni La Canna, MD, Antonio Grimaldi, MD, Lucia Torracca, MD, Francesco Maisano, MD, and Ottavio Alfieri, MD Ann Thorac Surg 2008;85:932-9



Freedom from recurrent MR≥3+

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Preoperative left ventricular dimensions predict reverse remodeling following restrictive mitral annuloplasty in ischemic mitral regurgitation*

Jerry Braun^a, Jeroen J. Bax^b, Michel I.M. Versteegh^a, Pieter G. Voigt^a, Eduard R. Holman^b, Robert J.M. Klautz^a, Eric Boersma^c, Robert A.E. Dion^{a,*}

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Received 21 September 2004; received in revised form 16 December 2004; accepted 23 December 2004; Available online 2 February 2005

Abstract

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Objective: Ischemic mitral regurgitation can be treated with a restrictive mitral annuloplasty, with or without coronary revascularization. In this study, the extent of reverse remodeling of the left ventricle following this strategy is assessed, as well as the factors that influence it. **Methods:** Eighty-seven consecutive patients with ischemic mitral regurgitation and a mean ejection fraction of $32 \pm 10\%$ underwent restrictive mitral paruleolarty (downtized by two ring size models ring size 34) with additional correspondence of reverse remodeling. For end-systolic dimension, 51 mm was the optimal cut-off value to predict reverse remodel in the cut-off value set of set of the verse remodel in the cut-off value was 65 mm (specificity and sensitivity underwent restrictive mitral annuloplasty with or without revascularization provides excellent cl at 18 months, left ventricular end-systolic dimension decreased from 52 ± 8 to 44 ± 11 mm (P < 0.01), and end-diastolic dimension from 64 ± 8 to 58 ± 10 mm (P < 0.01). Multivariate analysis identified preoperative left ventricular end-diastolic dimension as the single best factor in predicting occurrence of reverse remodeling. For end-systolic dimension, the cut-off value was 65 mm (specificity and sensitivity sequence). Such as the optimal cut-off value to predict reverse remodeling (specificity and sensitivity 81%, area under curve 0.85); for end-diastolic dimension, the cut-off value was 65 mm (specificity and sensitivity 81%, area under curve 0.85); for end-diastolic dimension, the cut-off value was 65 mm (specificity and sensitivity 81%, area under curve 0.85); for end-diastolic dimension, the cut-off value was 65 mm (specificity and sensitivity 89%, area under curve 0.92). Conclusions: Stringent restrictive mitral annuloplasty with or without revascularization provides excellent clinical results with acceptable mortality. At 18 months follow-up, there is no significant residual mitral regurgitation. Reverse remodeling occurs in the majority of pati

Dion et al, Eur J Cardiothorac Surg. 2005 May;27(5):847-53

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Preoperative left ventricular dimensions predict reverse remodeling following restrictive mitral annuloplasty in ischemic mitral regurgitation*

Jerry Braun^a, Jeroen J. Bax^b, Michel I.M. Versteegh^a, Pieter G. Voigt^a, Eduard R. Holman^b, Robert J.M. Klautz^a, Eric Boersma^c, Robert A.E. Dion^{a,*}

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Bolling		Table 4. Predictors of Rea	verse Li	eft Ventricular	r Remodeline	Variable	Reverse Remodeling	No Reverse Remodeling	p Value
	Dion	Variable	Odds Ratio	p (univariate)	p	Number of patients Ischemic DCM (n, %) Previous MI (n, %) Anterior (%)	41 29 (70.7) 18 (43.9) 42.2	38 22 (57.9) 11 (28.9) 54.1	0.2 0.2 0.5
Ī		Age Duration of CHF	0.9 0.6	0.7 0.06	0.05	Inferior (%) Lateral (%)	42.3 15.3	41.6 4.1	0.8 0.3
	Calafiore	Ischemic etiology	1.5	0.04	0.9	CHF duration (y)	1.7 ± 0.5	3.1 ± 1.5	0.03
		Associated CABG	1.4	0.02	0.9	NYHA	2.8 ± 0.7	3 ± 0.7	0.1
		Successful ablation of AF	3.7	0.05	0.2	EF LVEDD (mm)	0.28 ± 0.053 68 ± 7.0	0.29 ± 0.057 70 ± 6.6	0.9 0.1
		EF	0.9	0.3		LVEDVI (mL/m ²)	116 ± 28.5	110 ± 32.2	0.1
	E2E	SPAP	0.9	0.4		LVESVI (mL/m ²)	83 ± 24.1	78 ± 26.3	0.6
		LVEDD	0.9	0.2		SPAP (mm Hg)	47 ± 12.5	46 ± 11.8	0.5
		LVEDVI	1	0.7		Sphericity index	0.77 ± 0.08	0.67 ± 0.09	0.5
	RVM	LVESVI	1	0.3		Tenting area (cm ²)	2.6 ± 0.82	2.8 ± 0.94	0.4
		Tenting area	0.8	0.5		Coaptation depth (cm)	1 ± 0.24	1.1 ± 0.3	0.8
		Coaptation depth	1.8	0.2		Ring number	27.3 ± 1.8	27.1 ± 2.0	0.41
		Use of edge-to-edge	2.1	0.08	0.09	Edge-to-edge (n, %)	24 (58.5)	15 (39.4)	0.2
		Ring number	0.8	0.2		Associate CABG (n, %)	27 (65.9)	22 (57.9)	0.4
		Ring type	1.2	0.8		Number of grafts	1.5 ± 1.0	1.9 ± 0.7	0.1
						AF ablation (n, %)	10 (24.3)	3 (7.8)	0.09
	Conclusion					CRT (n, %)	5 (12.1)	7 (18.4)	0.6

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Mitral Valve Surgery for Chronic Ischemic Mitral Regurgitation

Antonio M. Calafiore, MD, Michele Di Mauro, MD, Sabina Gallina, MD, Gabriele Di Giammarco, MD, Angela L. Iacò, MD, Giovanni Teodori, MD, and Isabella Tavarozzi, MD

Division of Cardiac Surgery, University Hospital, Torino, and Department of Cardiology and Cardiac Surgery, "G D'Annunzio" University, Chieti, Italy

Background. Early and midterm clinical and echocardiographic results after mitral valve (MV) surgery for chronic ischemic mitral regurgitation were investigated to evaluate the validity of the criteria for repair or replacement applied by us.

Methods. From 1988 to 2002, 102 patients with ischemic mitral regurgitation underwent MV surgery (82 repairs and 20 replacements). End-systolic distance between the coaptation point of mitral leaflets and the plane of mitral annulus was the key factor that allowed either repair (≤ 10 mm) or replacement (>10 mm). Patients who had MV replacement showed higher New York Heart Association class (3.2 ± 0.5 versus 3.4 ± 0.5; p = 0.016), lower preoperative ejection fraction (0.33 ± 0.9 versus 0.38 ± 0.12; p = 0.034), and higher end-diastolic volume (161 ± 69 mL versus 109 ± 35 mL; p < 0.001) compared with repair. Mitral regurgitation was 3.2 ± 0.7 in both groups.

Results. Thirty-day mortality was 3.9% (2.4% MV repair versus 10.0% MV replacement; not significant). During the follow-up 26 patients died. Of the 72 survivors, 55



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(Ann Thorac Surg 2004;77:1989–97) © 2004 by The Society of Thoracic Surgeons

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Mitral Valve Surgery for Chronic Ischemic Mitral Regurgitation

Antonio M. Calafiore, MD, Michele Di Mauro, MD, Sabina Gallina, MD, Gabriele Di Giammarco, MD, Angela L. Iacò, MD, Giovanni Teodori, MD, and Isabella Tavarozzi, MD

Division of Cardiac Surgery, University Hospital, Torino, and Department of Cardiology and Cardiac Surgery, "G D'Annunzio" University, Chieti, Italy



Fig 3. Survival according to mitral valve (MV) repair or replacement. (Dashed line = mitral valve repair; straight line = overall; straight line with black squares = mitral valve replacement.)

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Additional procedures to associate to undersized annuloplasty to enhance effectiveness and durability



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Freedom from recurrence of MR≥3+ in dilated Cardiomyopathy. De Bonis M. et al. Circulation 2005







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Long-Term Results (≤18 Years) of the Edge-to-Edge Mitral Valve Repair Without Annuloplasty in Degenerative Mitral Regurgitation

Implications for the Percutaneous Approach

Michele De Bonis, MD; Elisabetta Lapenna, MD; Francesco Maisano, MD; Fabio Barili MD PhD: Giovanni La Canna MD: Nicola Buzzatti MD:

Conclusions—In degenerative MR, the overall long-term results of the surgical edge-to-edge technique without annuloplasty

are not satisfactory. Early optimal competence (residual MR $\leq 1+$) was associated with higher freedom from recurrent severe regurgitation. (*Circulation*. 2014;130[suppl 1]:S19-S24.)

suture without any annuloplasty. Annuloplasty was omitted in 36 patients because of heavy annular calcification and in 25 for limited annular dilatation. A double-orifice repair was performed in 53 patients and a commissural edge-to-edge in 8. Hospital mortality was 1.6%. Follow-up was 100% complete (mean length, 9.2±4.21 years; median, 9.7; longest, 18.1). Survival at 12 years was $51.3\pm7.75\%$. At the last echocardiographic examination, MR \geq 3+ was demonstrated in 33 patients (55%). At 12 years, freedom from reoperation was $57.8\pm7.21\%$ and freedom from recurrence of MR \geq 3+ was 43±7.6%. Residual MR >1+ at hospital discharge was identified as a risk factor for recurrence of MR \geq 3+ (hazard ratio, 3.8; 95% confidence interval, 1.7–8.2; *P*=0.001). In patients with residual MR \leq 1+ immediately after surgery, freedom from MR \geq 3+ at 5 and 10 years was 80±6% and 64±7.58%, respectively.

Conclusions—In degenerative MR, the overall long-term results of the surgical edge-to-edge technique without annuloplasty are not satisfactory. Early optimal competence (residual MR ≤1+) was associated with higher freedom from recurrent severe regurgitation. (*Circulation.* 2014;130[suppl 1]:S19-S24.)

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Transcatheter techniques

	Approach	Commercial	In Development	Abandoned	
Bolling	Edge-to-Edge Repair	Abbott Vascular	ST. JUDE MEDICAL		
Dion	Direct Annuloplasty		Karclium Alcare Suded Delvery Systems Systems millipede llc.	QuantumCor ReCor Medical	
Calafiore	Indirect Annuloplasty	Cardiac Dimensions		VIACOR	
	Chordal Repair	neghord	KValtech		
E2E	Ventricular Remodeling		MARDIL MEDICAL	MYOCOR	
	Enhanced coaptation		middle peak <u>Mitralix</u> MitrAssist		
RVM	MV Replacement		Meditronic endoValve endoValve Cassion CardiAO Edwards OTENDYNE		

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Intro

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Intro	HEpitale de lyon	
Bolling	2016 Image: Second state of the second s	
Dion	Abstract OBJECTIVES: Recurrent mitral regurgitation (MR) is common after surgical and percutaneous (MitraClip) treatment of functional MR (FMR). However, the Everest II trial suggested that, in patients with secondary MR and initially successful MitraClip therapy, the results were sustained CONCLUSIONS: In patients with FMR and optimal mitral competence after MitraClip	
Calafiore	implantation, the recurrence of significant MR at 4 years is not uncommon. This study does no confirm previous observations reported in the Everest II randomized controlled trial indicating that, if the MitraClip therapy was initially successful, the results were sustained at 4 years.	ot
E2E	When compared with the surgical EE combined with annuloplasty, MitraClip therapy provide lower efficacy at 4 years.	S
RVM	patients) and 4 years (21 patients) showed a significant increase in the severity of MR compared with the corresponding 1 year grade (all P < 0.01). Freedom from MR \ge 3+ at 4 years was 75 ± 7.6% in the MitraClip group and 94 ± 3.3% in the surgical one (P = 0.04). Freedom from MR \ge 2+ at 4 years was 37 ± 7.2 vs 82 ± 5.2%, respectively (P = 0.0001). Cox regression analysis identified the use of MitraClip as a predictor of recurrence of MR \ge 2+ [hazard ratio (HR) 5.2, 95% confidence interval (Cl) 2.5-10.8, P = 0.0001] as well as of MR \ge 3 (HR 3.5, 95% Cl 0.9- 13.1, P = 0.05). CONCLUSIONS: In patients with FMR and optimal mitral competence after MitraClip	
Conclusion	implantation, the recurrence of significant MR at 4 years is not uncommon. This study does not confirm previous observations reported in the Everest II randomized controlled trial indicating that, if the MitraClip therapy was initially successful, the results were sustained at 4 years. When compared with the surgical EE combined with annuloplasty, MitraClip therapy provides lower officacy at 4 years.	23

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Dion

CARDIO-THORACIC SURGERY

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Eur J Cardiothorac Surg. 2016 Mar 23. pii: ezw093. [Epub ahead of print]

Optimal results immediately after MitraClip therapy or surgical edge-toedge repair for functional mitral regurgitation: are they really stable at 4 vears?

De Bonis M¹, Lapenna E², Buzzatti N², La Canna G², Denti P², Pappalardo E², Schiavi D², Pozzoli A², Cioni M², Di Giannuario G², Alfieri O².

Author information

Abstract



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OBJECTIVES: Recurrent mitral regurgitation (MR) is common after surgical and percutaneous (MitraClip) treatment of functional MR (FMR). However, the Everest II trial suggested that, in patients with secondary MR and initially successful MitraClip therapy, the results were sustained at 4 years and were comparable with surgery in terms of late efficacy. The aim of this study was



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What is a "good" result after transcatheter mitral repair? Impact of 2+ residual mitral regurgitation

Nicola Buzzatti, MD,^a Michele De Bonis, MD,^a Paolo Denti, MD,^a Fabio Barili, MD,^b Davide Schiavi, BS,^a Giovanna Di Giannuario, MD,^a Giovanni La Canna, MD,^a and Ottavio Alfieri, MD^a

ABSTRACT

Objective: The study objective was to assess the impact on follow-up outcomes of residual mitral regurgitation 2+ in comparison with ≤1+ after MitraClip (Abbott Vascular Inc, Santa Clara, Calif) repair.



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Methods: We compared the outcomes of mitral regurgitation 2+ and mitral

Conclusions: Residual 2+ mitral regurgitation after MitraClip implantation was associated with worse follow-up outcomes compared with mitral regurgitation, including survival, symptom relief, and mitral regurgitation recurrence. Better efficacy should be pursued by transcatheter mitral repair technologies. (J Thorac Cardiovasc Surg 2016;151:88-96)

> $13.3\% \pm 3.8\%$ and $43.2\% \pm 0.8\%$, respectively (Gray test $F \le 3.001$). Multivariate model showed that mitral regurgitation 2+ was the only factor associated with the development of mitral regurgitation $\geq 3+$ at follow-up (adjusted hazard ratio, 6.71; 95% confidence interval, 3.48-12.90; $P \le .001$). Mitral regurgitation cause was not associated with cardiac death and recurrence of mitral regurgitation $\geq 3+$ at follow-up. No relationship between New York Heart Association class and followup time after MitraClip implant was found (odds ratio, 1.07; 95% confidence interval, 0.98-1.15; P = .11), and factors related to postoperative New York Heart Association also included residual mitral regurgitation 2 + (P = .07).

> Conclusions: Residual 2+ mitral regurgitation after MitraClip implantation was associated with worse follow-up outcomes compared with $\leq 1 +$ mitral regurgitation, including survival, symptom relief, and mitral regurgitation recurrence. Better efficacy should be pursued by transcatheter mitral repair technologies. (J Thorac Cardiovasc Surg 2016;151:88-96)

Perspective

Residual 2+ MR is frequent after MitraClip (Abbott Vascular Inc, Santa Clara, Calif) implantation. In our series, it was associated with worse survival, symptom relief, and MR recurrence compared with the $\leq 1 + MR$ group. Better efficacy should be pursued by transcatheter mitral repair technologies, especially before expanding indications to lower-risk patients.

See Editorial Commentary page 97.

See Editorial page 7.

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<u>Surgical</u> MV Repair







Carpentier French Correction

Percutaneous Mitral Plasty techniques







Fully percutaneous Mitra valve repair

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Mitral Repair versus Replacement for Ischemic Mitral Regurgitation

Comparison of Short-Term and Long-Term Survival

Julien Magne, PhD; Nicolas Girerd, MD; Mario Sénéchal, MD; Patrick Mathieu, MD; François Dagenais, MD; Jean G. Dumesnil, MD; Éric Charbonneau, MD; Pierre Voisine, MD; Philippe Pibarot, DVM, PhD, FAHA



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- Background—When compared to mitral valve replacement (MVR), mitral valve repair (MVRp) is associated with better survival in patients with organic mitral regurgitation (MR). However, there is an important controversy about the type of surgical treatment that should be used in patients with ischemic MR. The objective of this study was to compare the postoperative outcome of MVRp versus MVR in patients with ischemic MR.
- *Methods and Results*—Preoperative and operative data of 370 patients with ischemic MR who underwent mitral valve surgery were prospectively collected and retrospectively analyzed. MVRp was performed in 50% of patients (n=186) and MVR in 50% (n=184). Although operative mortality was significantly lower after MVRp compared to MVR (9.7% versus 17.4%; P=0.03), overall 6-year survival was not statistically different between procedures ($73\pm4\%$ versus $67\pm4\%$; P=0.17). After adjusting for other risk factors and propensity score, the type of procedure (MVRp versus MVR) did not come out as an independent predictor of either operative (OR, 1.5; 95% CI, 0.7–2.9; P=0.34) or overall mortality (HR, 1.2; 95% CI, 0.7–1.9; P=0.52).
- Conclusion—As opposed to what has been reported in patients with organic MR, the results of this study suggest that MVRp is not superior to MVR with regard to operative and overall mortality in patients with ischemic MR. These findings provide support for the realization of a randomized trial comparing these 2 treatment modalities. (*Circulation*. 2009;120[suppl 1]:S104–S111.)

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ORIGINAL ARTICLE

Mitral-Valve Repair versus Replacement for Severe Ischemic Mitral Regurgitation

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N ENGL J MED 370;1 NEJM.ORG JANUARY 2, 2014

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Results

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At 12 months, the mean LVESVI among surviving patients was 54.6 ± 25.0 ml per square meter of body-surface area in the repair group and 60.7 ± 31.5 ml per square meter in the replacement group (mean change from baseline, -6.6 and -6.8 ml per square meter, respectively). The rate of death was 14.3% in the repair group and 17.6% in the replacement group (hazard ratio with repair, 0.79; 95% confidence interval, 0.42 to 1.47; P = 0.45 by the log-rank test). There was **no significant between-group difference in LVESVI** after adjustment for death (z score, 1.33; P = 0.18). The rate of moderate or severe recurrence of **mitral regurgitation at 12 months was higher in the repair group** than in the replacement group (32.6% vs. 2.3%, P<0.001). There were **no significant between-group differences in the rate of a composite of major adverse** cardiac or cerebrovascular events, in functional status, or in quality of life at 12 months.



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Mitral Replacement or Repair for Functional Mitral Regurgitation in Dilated and Ischemic Cardiomyopathy: Is it Really the Same?

Michele De Bonis, MD, David Ferrara, MD, Maurizio Taramasso, MD, Maria Chiara Calabrese, MD, Alessandro Verzini, MD, Nicola Buzzatti, MD, and Ottavio Alfieri, MD





De Bonis M. et al. Circulation 2005



Acker et al. J Thorac Cardiovasc Surg 2006; 132:568-577

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Table 13 Indications for mitral valve surgery in

EF = 20 to 30%

Class^a

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IIb

Level b

chronic secondary initral regurgitation

MR with poor LV: Which treatment ?

High Surg Risk + Echo criteria

Surgery is indicated in patients with severe MR^e undergoing CABG, and LVEF >30%. Dion Surgery should be considered in patients with moderate MR undergoing CABG.^d Surgery should be considered in symptomatic patients with severe MR, LVEF <30%, option for revascularization, and evidence of viability. Surgery may be considered in patients Calafiore with severe MR, LVEF >30%, who remain symptomatic despite optimal medical management (including CRT if indicated) and have low comorbidity, when revascularization is not indicated. **E2E RVM** Stress Echo / MRI Conclusion

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REPAIR or REPLACEMENT

- **Duration of CHF**
- LVEDD > 65 mm
- LVESD > 51 mm
- Coaptation Distance > 10mm
- Posterior Leaflet-annular plane angle > 45°
- Distal antior Leaflet-annular plane angle > 25°
- End Syst interpapillary muscle distance > 20mm
- Systolic sphericity index > 0,7
- Symetric < Asymetric

Conclusion