



A tipping point for PASCAL platform - experience in practice

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Potential conflicts of interest

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☐ I have the following potential conflicts of interest to report:

Speaker honoraria and institutional research support from Edwards Lifesciences

Advisory board activities for Edwards Lifesciences



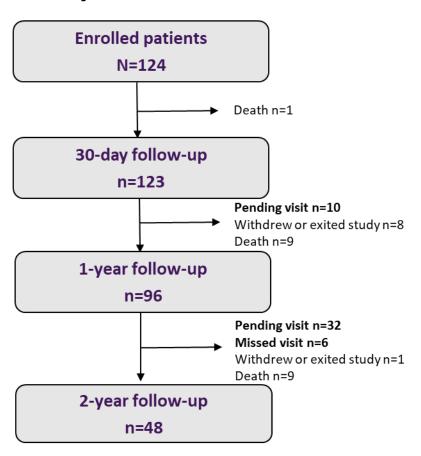




CLASP Study 2 Year Follow-up Patient Flow and Baseline



Study enrollment



Baseline characteristics

	N=124
	% or Mean ± SD
Age, years	75 ± 11
Male	56%
NYHA functional class III-IVa	60%
Etiology	
Functional	69%
Degenerative	31%
MR severity ≥3+ by TTE or TEE	100%
PISA EROA, cm ²	0.38 ± 0.15
Regurgitant volume, ml	57 ± 20
Vena contracta width, A-P, mm	6.3 ± 1.4

https://clinicaltrials.gov; NCT03170349

 $Szerlip\,M, et\,al.\,\,2-Year\,Outcomes\,for\,Transcatheter\,Repair\,in\,Patients\,With\,Mitral\,Regurgitation\,From\,the\,CLASP\,Study.\,JACC\,Cardiovasc\,Interv.\,\,2021;14(14):1538-1548$



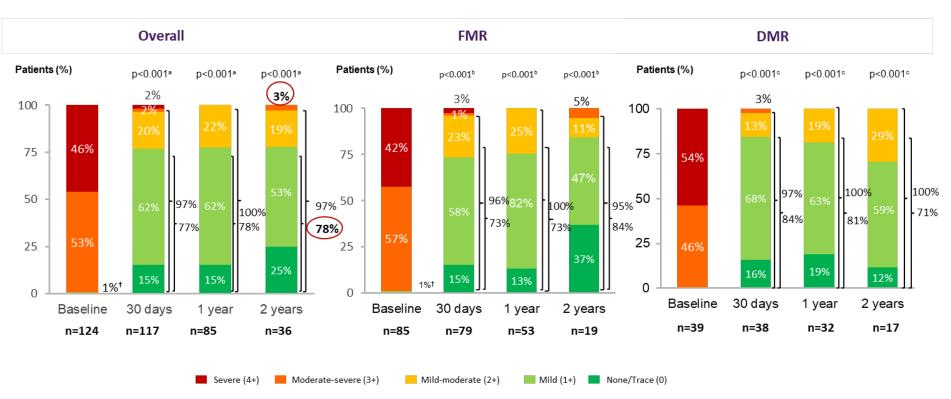






Sustained MR Reduction, Low MR Recurrence

78% MR ≤1+ sustained at 2 years by core lab1



 1 Cardiovascular Core Lab at Morristown Medical Center, Morristown, NJ, USA. Graphs show unpaired data. p-value calculated from paired analysis using Wilcoxon signed rank test 3 baseline vs. 30 days (n=117; MR≤1+=77%; MR≤2+=97%), 1 year (n=85; MR≤1+=78%; MR≤2+=100%), and 2 years (n=36; MR≤1+=78%; MR≤2+=97%), 1 baseline vs. 30 days (n=79; MR≤1+=73%; MR≤2+=96%), 1 year (n=53; MR≤1+=75%; MR≤2+=100%), and 2 years (n=19; MR≤1+=84%; MR≤2+=95%), 1 baseline vs. 30 days (n=38; MR≤1+=84%; MR≤2+=97%), 1 year (n=32; MR≤1+=81%; MR≤2+=100%), and 2 years (n=17; MR≤1+=71%; MR≤2+=100%). 1 One patient had MR 1+ by TTE although 3+ by TEE. DMR: degenerative mitral regurgitation, FMR: functional mitral regurgitation. Szerlip M, et al. 2-Year Outcomes for Transcatheter Repair in Patients With Mitral Regurgitation From the CLASP Study. JACC Cardiovasc Interv. 2021;14(14):1538-1548.







PASCAL Platform Experience in 4900+ Commercially Treated MR Patients

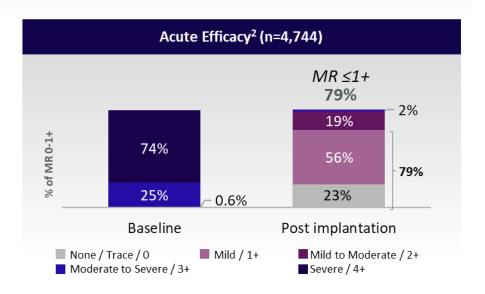


- Retrospective analysis of acute results in 4900+ consecutive PASCAL repair system repair procedures in MR patients post CE mark approval
- Analyses were performed by Edwards Lifesciences, and do not include Echo Core Lab analysis or Clinical Events Committee assessment. Data are collected by Edwards Clinical Specialists supporting 100% of procedures.

Etiologies treated (n=4,604)		
Total MR Patients	FMR: 49%	
	DMR: 28%	
	Mixed: 22%	

Safety

- 99.9% freedom from intraprocedural death or shift to surgery
- 98.7 % freedom from Serious Adverse Events¹



Note: Partial data sets available on first N=4926; data being analysed up to N=4744; Etiology information available N=4604 Edwards Lifesciences internal data on file.







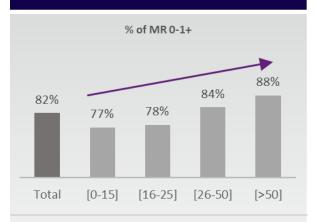
¹Serious Adverse Events defined as Intraprocedural complications as per implanter / echo physician feedback to onsite Edwards Clinical Specialist who supported the case. 100% of cases reported were supported. Total 4926: 1.3% SLDA and Other SAEs

²Residual regurgitation as per implanter / echo physician acute assessment and reported by onsite clinical specialist, in non-aborted procedures.

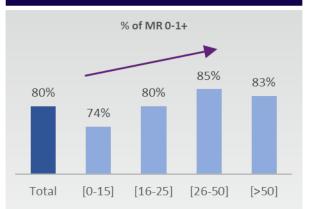
High Rates of MR 0-1+ Can Be Achieved After a Short Learning Curve



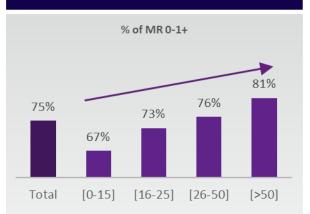




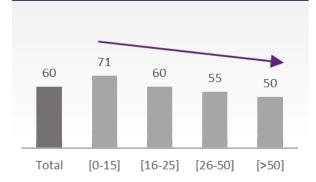
DMR (N=1254; non-aborted)



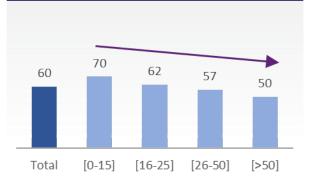
Mixed (N=973; non-aborted)



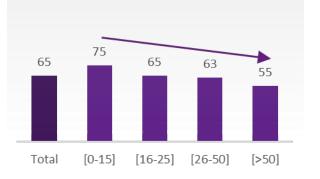
Median procedure time (min)



Median procedure time (min)



Median procedure time (min)



Note: Analysis done on residual MR and procedural time data when available for the first N=4744 non-aborted cases with etiology information available, a total of 4440 cases. Residual regurgitation as per implanter/echo physician acute assessment and reported by onsite clinical specialist. DMR: degenerative mitral regurgitation, FMR: functional mitral regurgitation.

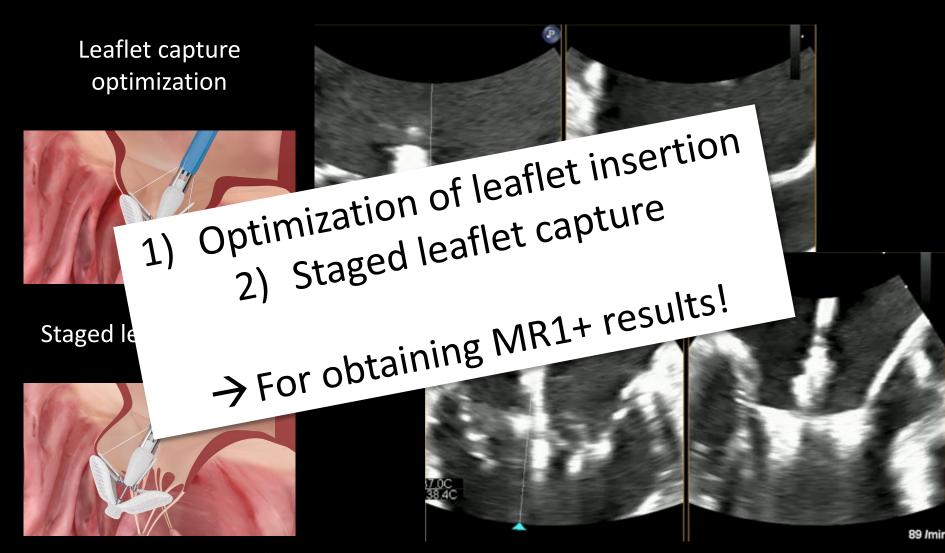
Edwards Lifesciences internal data on file.







Improving MR Reduction



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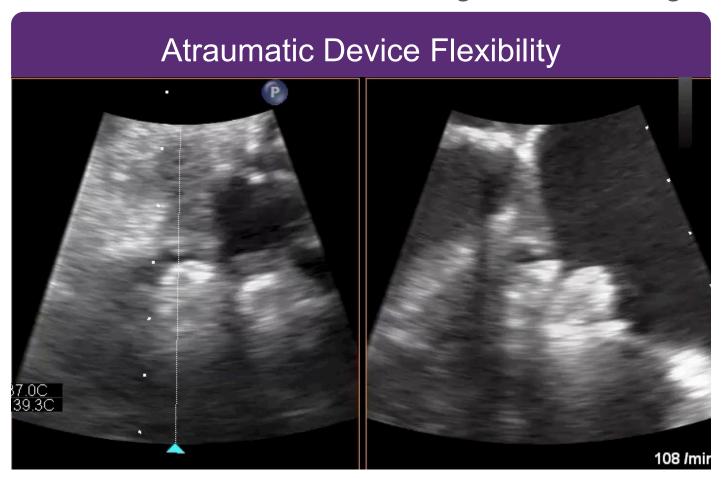






PASCAL Transcatheter Valve Repair System

Flexible Nitinol Device For Distributing Leaflet Pulling Forces



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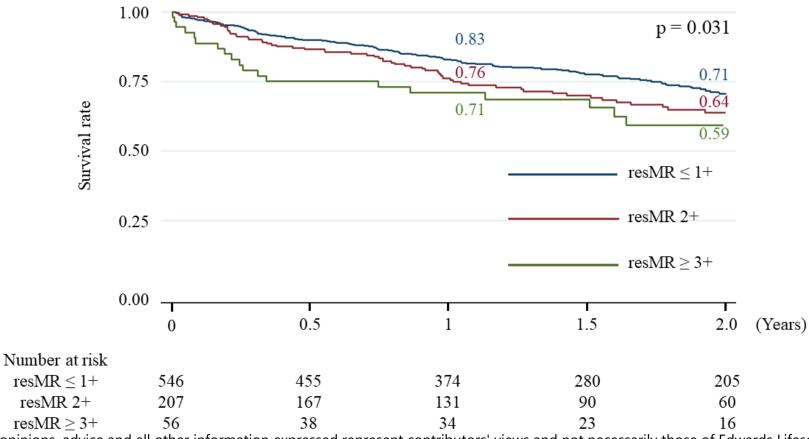


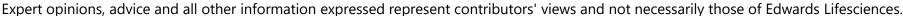




Is the degree of MR reduction of relevance?

Mortality in the EuroSMR registry









Conclusions

The PASCAL repair system is a differentiated therapy for MR patients

- In the CLASP study at 2 years follow up¹:
- Robust and durable MR reduction
- Positive LV remodelling
- High survival rates and reduced annualised heart failure hospitalization rates
- In real world experience of 4900+ cases acute results
- 84% MR 0-1+ reported after 25 cases and sustained with more case experience in both FMR and DMR patients
- Procedure time ≤ 62 minutes after 15 cases in both FMR and DMR patients

The randomized CLASP IID/IIF pivotal clinical trial is ongoing (NCT03706833)







CLASP IID / IIF



The Edwards PASCAL TrAnScatheter Valve RePair System Pivotal Clinical Trial (CLASP IID/IIF)

Prospective, multicenter, randomized, controlled pivotal trial

Purpose:

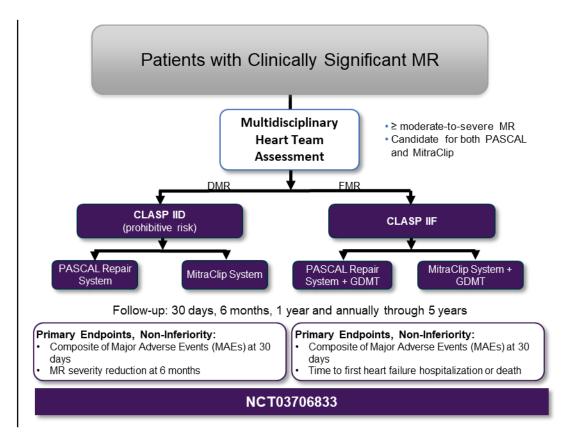
Establish the safety and effectiveness of the PASCAL Repair System compared to the MitraClip System in patients with degenerative and functional mitral regurgitation (MR)

IID Principal Investigators:

- · Scott Lim, MD
- · Robert Smith, MD
- · Linda Gillam, MD
- · Jörg Hausleiter, MD

IIF Principal Investigators:

- Brian K. Whisenant, MD
- · Vinod Thourani, MD
- Paul Grayburn, MD
- · Ralph Stephan von Bardeleben, MD



https://clinicaltrials.gov; NCT03706833







Thank You

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