



PASCAL System for the treatment of mitral regurgitation

Body of evidence

Clinical evidence for the use of the PASCAL system
for the treatment of mitral regurgitation



Edwards

PASCAL System body of evidence: Mitral regurgitation

Consistent favourable safety and sustained MR reduction with the PASCAL system¹⁻³



2,000+ patients
targeted in studies¹⁻⁴



4 studies and **1** registry*



9+ years of study[†]

MR severity evaluated
by independent ECL
Prespecified adverse
events adjudicated
by CEC

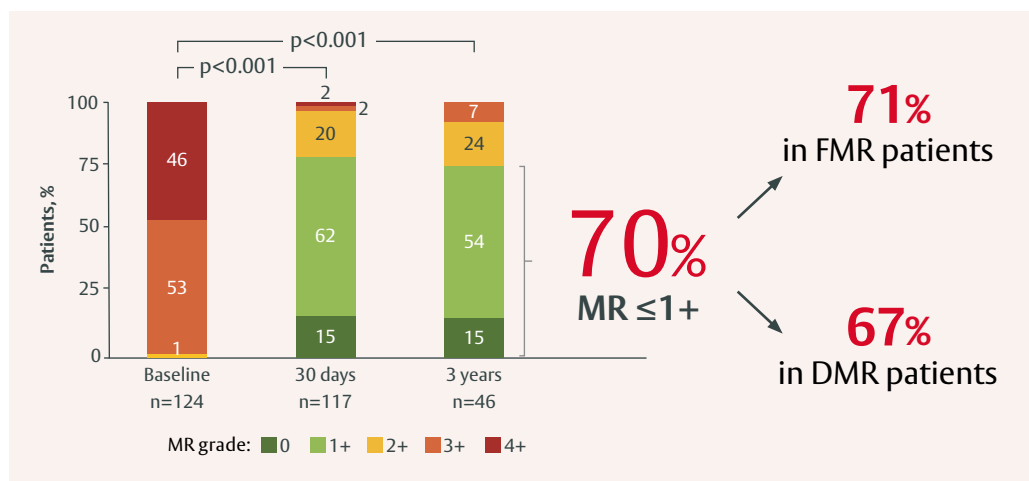


Prospective, multicentre, single-arm study¹

124
patients

3
years[†]

Favourable and durable outcomes at 3 years in patients with clinically significant, symptomatic FMR or DMR.¹



75% freedom from all-cause mortality
73% freedom from HFH
89% NYHA class I/II

Figure shows unpaired analysis. Adapted from Spargias K *et al.* 2023. For details on statistical analyses, please see reference 1.

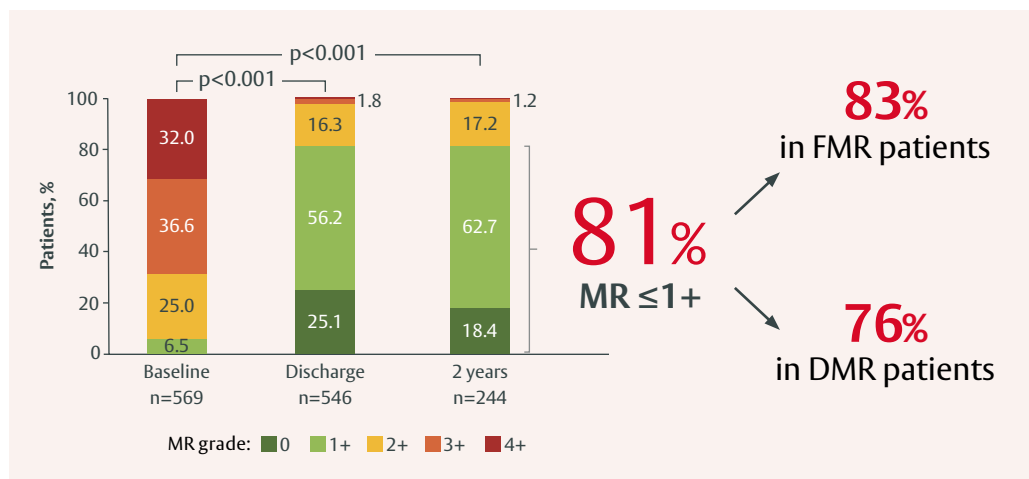


Prospective, multicentre, single-arm,
post-market clinical follow-up study²

600
patients[†]

2
years[†]

Confirmed safety and significant, sustained effectiveness at 2 years in patients with significant, symptomatic MR in a post-market setting.²



88% freedom from CV mortality
74% freedom from HFH
74% NYHA class I/II
+13 pts KCCQ-OS

Figure shows unpaired analysis. Adapted from Geisler T. 2024. For details on statistical analyses, please see reference 2.



Confirmed safety and significant, sustained effectiveness at 2 years in patients with significant, symptomatic DMR.³

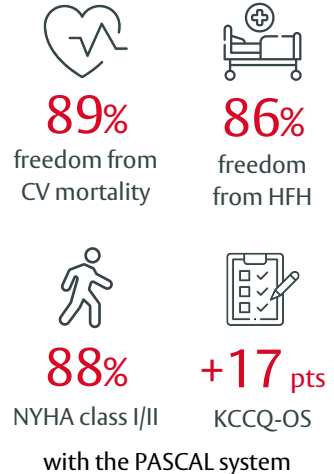
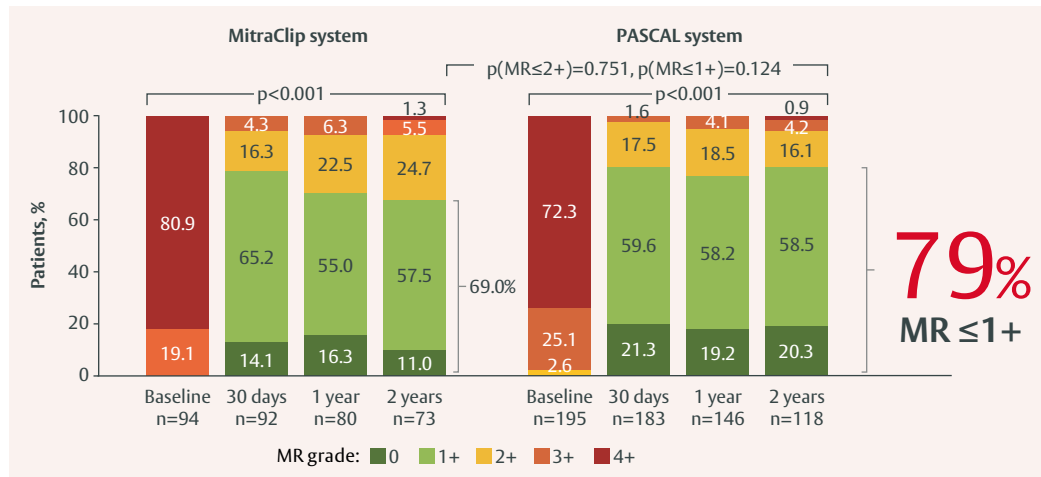
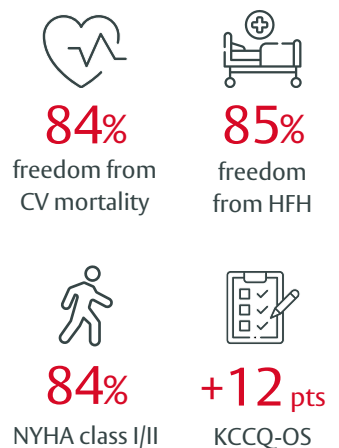
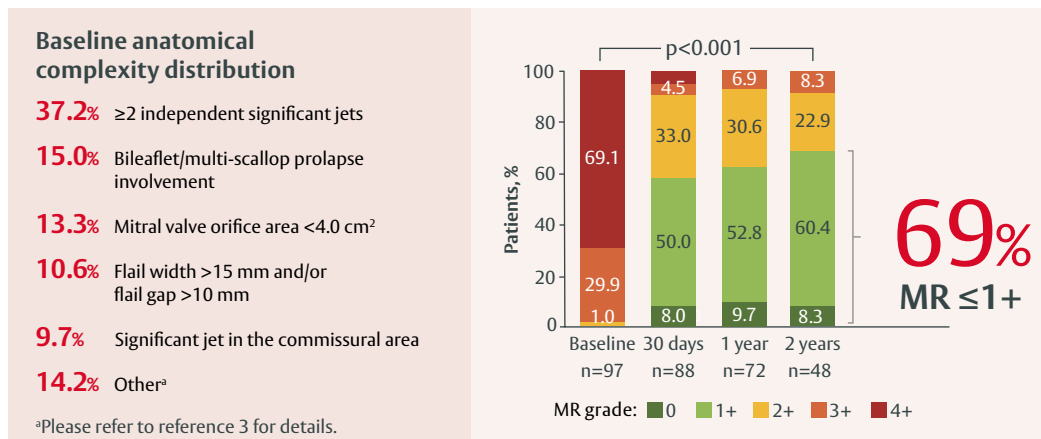


Figure shows unpaired analysis. Adapted from Zahr F. 2024. For details on statistical analyses, please see reference 3.



Significant and sustained MR reduction at 2 years in patients with significant, symptomatic DMR and complex mitral valve anatomy.³



MR figure shows unpaired analysis. Figures adapted from Zahr F. 2024. For details on statistical analyses, please see reference 3.



First head-to-head randomised controlled trial to evaluate the safety and effectiveness of M-TEER with the PASCAL system compared with the MitraClip system in patients with FMR on guideline-directed medical therapy.⁴

Primary endpoints: Safety: Composite of major adverse events at 30 days
Effectiveness: Time from randomisation date to first HFH or death, through 5-year follow-up

*CLASP, CLASP IID trial, CLASP IID registry, CLASP IIF and MiCLASP. Note: CLASP IIF currently in progress.

[†]Based on reported follow-up.

Edwards PASCAL Precision System

Accurate, intuitive control

Advanced catheter and handle design facilitates smooth navigation and implant deployment*

Versatile implant configuration

Adapt to specific procedural and anatomical needs

Atraumatic clasp and closure

Enhance leaflet capture with atraumatic reclasp capabilities

Predictable release

Deploy the implant with procedural confidence†



*Design data on file and marketing evaluation.

†Performance and design data on file.



Learn more about the PASCAL system
at Edwards.com/gb/PASCAL

For details on statistical analyses, please see references 1–3.

Abbreviations

CEC:	clinical events committee	HFH:	heart failure hospitalisation
CV:	cardiovascular	KCCQ-OS:	Kansas City Cardiomyopathy Questionnaire overall summary score
DMR:	degenerative mitral regurgitation	M-TEER:	mitral transcatheter edge-to-edge repair
ECL:	echocardiography core lab	MR:	mitral regurgitation
FMR:	functional mitral regurgitation	NYHA:	New York Heart Association

References

1. Spargias K, Lim DS, Makkar R *et al*. Three-year outcomes for transcatheter repair in patients with mitral regurgitation from the CLASP study. *Catheter Cardiovasc Interv*. 2023; **102**: 145–54.
2. Geisler T. Two-year outcomes of mitral transcatheter edge-to-edge repair from the MiCLASP study. PCR London Valves, 24–26 November 2024, London, UK.
3. Zahr F. CLASP IID randomized trial and registry: Two-year outcomes of transcatheter edge-to-edge repair for degenerative mitral regurgitation. TCT 2024, 27–30 October 2024, Washington, DC, USA.
4. ClinicalTrials.gov. Edwards PASCAL CLASP IID/IIF pivotal clinical trial (CLASP IID/IIF). Available at: <https://clinicaltrials.gov/study/NCT03706833> [Accessed 3 January 2025].

Medical device for professional use. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use (consult eifu.edwards.com where applicable).

Edwards, Edwards Lifesciences, the stylized E logo, CLASP, CLASP II, the CLASP logo, Edwards PASCAL, Edwards PASCAL Precision, PASCAL, and PASCAL Precision are trademarks or service marks of Edwards Lifesciences Corporation or its affiliates. All other trademarks are the property of their respective owners.

© 2025 Edwards Lifesciences Corporation. All rights reserved. PP--EU-9904 v1.0

Edwards Lifesciences Sàrl • Route de l'Etraz 70, 1260 Nyon, Switzerland • edwards.com



Edwards