Edwards PASCAL Transcatheter Valve Repair System MiCLASP Post-Market Study: 1-Year Outcomes

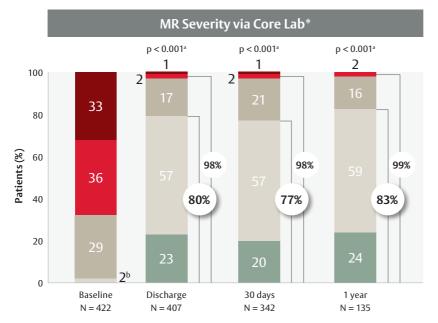


Professor Lurz reported the 1-year outcomes of the single-arm, multi-centre MiCLASP post-market clinical follow-up (PMCF) study.

Study design & baseline parameters¹

Study design: prospective, single arm, multi-centre study		
Enrolled patients: 500	Male: 59%	Age, years (mean): 77 ± 10
NYHA functional class III or IV: 77%	STS score (MV repair): 5.1% ± 4.3	Euroscore II: 7.6% ± 7.5
MR etiology: Functional 64%, degenerative 32%, mixed 4% and 1% other/unavailable		

Key results





Graphs show unpaired analysis.

^ap-value calculated from paired analysis using Wilcoxon signed rank test.

Baseline vs. discharge (n=385; MR≤1+=80%; MR≤2+=98%), 30 days (n=323; MR≤1+=77%; MR≤2+=98%), and 1 year (n=128; MR≤1+=83%; MR≤2+=98%)

^bSome patients had MR <2+ at baseline prior to introduction of core lab-adjudicated echocardiographic exclusion criteria in protocol.

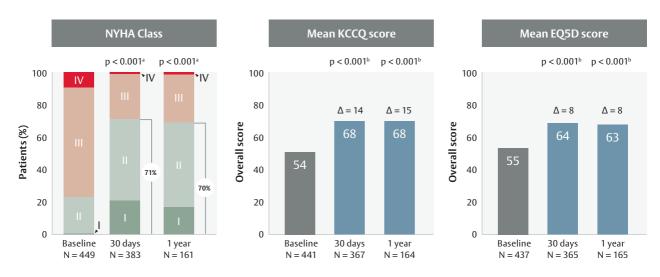


^{*}Cardiovascular Core Lab at Morristown Medical Center NYHA: New York Heart Association; STS: Society for Thoracic Surgeons; MR: mitral regurgitation; MV: mitral valve



Outcomes at 1 year:

- High survival and low event rates
- Low rate of heart failure hospitalisation
- Core lab-adjudicated sustained MR \leq 1+ durability with 83% patients at MR \leq 1+
- Significant and sustained clinical, functional and quality-of-life improvements
- Positive outcomes in both FMR and DMR patients



Graphs show unpaired data. Δ and p-values calculated from paired analysis. ^aWilcoxon signed rank test. ^bStudent's t-test NYHA: New York Heart Association; KCCQ: Kansas City Cardiomyopathy Questionnaire; EQ5D: EuroQol 5 Dimensions Health Questionnaire

Conclusion

• In the ongoing MiCLASP post-market study at 1 year, the PASCAL system demonstrated favourable safety and sustained MR reduction accompanied by significant symptomatic and quality-of-life improvements.

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MR: mitral regurgitation; FMR: functional mitral regurgitation; DMR: degenerative mitral regurgitation ¹Lurz P. One-year outcomes for transcatheter mitral repair from the MiCLASP study. PCR London Valves 2022

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