Reviewer's report

Title: Long-Term Survival after Mitral Valve Surgery for Post-Myocardial Infarction Papillary Muscle Rupture

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Reviewer: Nicolas Doll

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REVIEW

Long-Term Survival after Mitral Valve Surgery for Post-Myocardial Infarction Papillary Muscle Rupture

This study aimed to identify independent survival predictors for patients who underwent mitral valve surgery for post myocardial infarction papillary muscle rupture. Data was collected from 1990 until 2014 from 50 consecutive patients who underwent surgery at a single center. Apart from EuroSCORE >40% and EuroSCORE II > 25% the authors identified preoperative inotropic drug support and MV replacement without preservation of the subvalvular apparatus (SA) as independent predictors of a lower overall long-term survival and concluded that preservation of the SA should be attempted in these patients.

comments:

1. very good paper with excellent structure, clear concept and thorough discussion bringing up all relevant points and recent literature.
2. would definitely recommend publication without any hesitation.
3. authors might want to add in their Surgical Technique description whether the entire subvalvular apparatus was preserved in all cases of MVR, or if in some cases only anterior or posterior SA structures were preserved, and if so, if they consider preservation of the entire vs. partial SA as a relevant factor in terms of ventricular function and patient outcomes.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I have no competing interests