Reviewer’s report

Title: Combined One-Stage Minimally Invasive Surgery for Primary Pulmonary Carcinoma and Mitral Regurgitation

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Reviewer: Hiroyuki Nakajima

Reviewer's report:

I appreciate for opportunity of reviewing an interesting paper regarding simultaneous mitral valve repair and lung lobectomy. One-stage surgery with small skin incision was successful.

Previously, so many lung lobectomy concomitant with cardiac surgery had been reported. The authors mentioned that this paper can be the first case of MICS and lobectomy.

In common, cardiopulmonary bypass and cardiac arrest time of MICS were significantly longer than standard valve surgery. In addition, MICS may have the increased risk of pulmonary edema, stroke, aortic dissection, and possibility of dissemination into pericardial cavity during operation. I cannot agree with reduced morbidity by this approach. The authors should discuss about several disadvantages of this strategy, and who can benefit from such one-stage operation.

Mitral regurgitation was occasionally found by holosystolic murmur. Necessity of early surgery for asymptomatic mitral regurgitation was not clearly demonstrated.

I agree with the cosmetic advantage of this strategy. In my opinion, indications for combined operation should be strictly considered only for selected patients.

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Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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