Reviewer’s report

Title: The role in surgical and pathological classification of echocardiography in patients with ruptured mitral chordae tendineae: a large sample study

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Reviewer: João Carlos Leal

Reviewer’s report:

After reading the paper, I have some important considerations to make. The subject of the paper is new, interesting and has great scientific, educational and practical value. The use of TEE intraoperationally is a routine among the procedures for mitral valve repair. Determining an echocardiographic classification to improve diagnosis of chordae tendinae rupture will be really useful.

Concerning methods and data, there are two important aspects to consider (major compulsory revisions):

a. The authors haven’t used the ASE (American Society Echocardiograph) classification to the evaluation of the degree of mitral valvular regurgitation in a complete way.

b. The authors have used as a measure to the left atrium the diameter. I do recommend the volume as a more confident to measure the size and severity of the mitral valvular regurgitation.

Besides that, data are sound and seem well controlled.

The paper is relevant both to cardiovascular surgery and clinical cardiology as well. The results should be present in the general literature. However, I suggest the authors to remove/extract the text part “Patients and clinical characteristics”, because I believe information and data here should be part of “Materials and methods” (Minor Essential Revisions)

In general, the discussion is well conducted in a clear and adequate way, having as its basis the evidences and data from the study results.

I consider the conclusions logically valid and justified by the evidences.

On the other hand, a correction of the paper is essential for its publication. The article is original; the title brings the most important idea of the research and the abstract is well-written (it has a good structure and all the needed information about the whole article.

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 declare that I have no competing interests'