Reviewer’s report

Title: Effect of Increased Left Ventricle Mass on Ischemia Assessment in Electrocardiographic Signals: Rabbit Isolated Heart Study

Version: 0 Date: 25 Apr 2017

Reviewer: Ljuba Bachárová

Reviewer's report:

Abstract:

The research problem is not clearly defined.

How is defined "increased LV mass"? - increased as compared to what? Has been the LV mass previously lower and now is increased? Was the study performed on healthy experimental animals or on animals with any pathology leading to the increase in LV mass?

The description of results is too general.

Calculating specificity and sensitivity from small numbers is questionable - the possible effect of small numbers.

Introduction:

Two terms are used as interchangeable - increased LV mass and LV hypertrophy, however they needs to be clearly defined. LV hypertrophy is associated with structural changes including interstitial fibrosis, ischemia, inflammation, apoptosis, etc., associated with electrical remodeling of myocardium; it is not a simple increase in the LV mass. Therefore the health conditions of the experimental animals needs to be clearly described.

Methods:

How was produced ischemia?

Was the effect of ischemia limited to the left ventricle or the whole heart?
What was the (possible) reason of the enlargement of the left ventricle? The same question: Was the study performed on healthy experimental animals or on animals with any pathology leading to the increase in LV mass?

The Methods part has to describe "what was done", please avoid reasoning and interpretation.

Results:

Results part has to describe "what was found", please avoid explanations, reasoning and interpretation.

Discussion and Conclusion:

The Discussion part and the Conclusion are too long, and there are speculations not supported with the results of the study.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Unable to assess

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics
Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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