Reviewer’s report

Title: Possible involvement of caveolin in attenuation of cardioprotective effect of ischemic preconditioning in diabetic rat heart

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Reviewer: Amteshwar jaggi

Reviewer’s report:

The authors have tried to establish the link between nitric oxide and ischemic preconditioning in diabetic rats. The work is good, however, some suggestion are there to improve the paper.

1. The authors should have included the group “ischemia reperfusion injury in diabetic rats” to differentiate the effect of diabetes on ischemia reperfusion injury and ischemic preconditioning. The lack of cardioprotective effects of IPC in diabetic rats may also be due to exaggerated myocardial injury in diabetic rats.
2. The authors should added data of heart rate as it independently depicts the extent of myocardial injury.
3. The authors must also added the data of mortality due to diabetes both short term i.e., within two-three days as well as long term i.e., between one week to end of study. Long standing hyperglycemia is detrimental to overall health of rats which is very critical.
4. For LDH and CK estimations, the authors should two way ANOVA.
5. There are number of errors in English e.g. in abstract itself there are errors like “Nitric oxide (NO) has been noted to produces”, “the expression of caveolin is increases” etc. In discussion section like “caveolin in diabetic rat heart may be responsible of the attenuated cardioprotective effect of IPC”, “sodium nitrite (a precursor of NO) followed by IPC, significantly restore the attenuated”

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