Reviewer’s report

Title: The effect of Liv-52 on liver ischemia reperfusion damage in rats

Version: 0 Date: 17 Sep 2019

Reviewer: Giovanni Dothel

Reviewer's report:

Phenolic compounds contained in herbal extracts are currently under study for their possible clinical application in anti-inflammatory therapy and, lately, in liver damage. Recently, Liv-52, an ayurvedic herbal formula, showed scavenging activities in hepatic oxidative stress. These properties are noteworthy in the therapy of surgery-related complications such as hepatic ischemia/reperfusion injury.

In the present study the authors used a rat model of liver ischemia/reperfusion to analyze the activity of Liv-52 on hepatic enzymes and tissue morphology, through spectrophotometry and histology.

Although the adequate experimental design, some concerns arise from the methods and formal dissertation presented by the author:

Given the low experimental number (N=6) used, a table presenting raw data of the biochemical analysis could be added in the supplementary material, in order to ease a comparison with previous analogous studies (Oguz A PMID: 31436305; Kim SK PMID: 31493918) the number of experimental replicates are not clearly mentioned.

In addition, a formal revision, especially of the material and method, as well as the result paragraphs, is mandatory.

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.

Yes

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 recommend additional statistical review

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

Not suitable for publication unless extensively edited

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