Reviewer’s report

Title: Acacia hydaspica R. Parker Prevents Doxorubicin-Induced Cardiac Injury by Attenuation of Oxidative Stress and Structural Cardiomyocyte Alterations in rats

Version: 1 Date: 31 May 2017

Reviewer: Protus Arrey Tarkang

Reviewer's report:

Title: The more appropriate word would be preferred to "abrogation", in describing the mode of action of A. hydaspica. Maybe "attenuation"

The role of ROS in DOX-induced cardiotoxicity remains a major concern in cancer chemotherapeutics. Therefore, the continuous search for antioxidants that attenuate this phenomenon is very important. Natural products have been known to be good sources of phenolic compounds with good antioxidant activities. In this regard, this study is very relevant.

However, the language of reporting is very poor and the manuscript generally needs extensive editing. Furthermore, the following issues need to be addressed before it can be considered for publication:

Material and Methods

Drug and plant dose preparation
- Line 26-30: Repetition

Acute toxicity evaluation
- The number of animals (6) per group for seven test groups is quite large. I suppose the OECD protocol describes a step-wise increase in dose testing of three animals at each dose.
- How do u observe neurological and autonomic effects in the test animals?
- The maximum tested dose in this study is 4000 mg/kg bwt and one fourth of this is 1000 mg/kg bwt as against 400 mg/kg bwt mentioned in line 54.
Experimental animals
- This section should come before the acute toxicity section and should also take into consideration the animals used for this test.

Sample preparation
- The section is poorly described.

Cardiotoxicity indices
- Give the details of AMP diagnostic kits.

Analysis of tissue antioxidant status and Oxidative stress markers
- Improve on the style of describing these methods.

Results
- Reporting of the results obtained is very poor and necessitates considerable improvement.

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.

Yes

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:

Not suitable for publication unless extensively edited

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