Reviewer’s report

Title: Therapeutic Effects of Hydro-Alcoholic Extract of Achillea Wilhelmsii on Indomethacin-Induced Gastric Ulcer in Rats: A Proteomic and Metabolomic Approach

Version: 2 Date: 30 May 2019

Reviewer: Peter Achunike Akah

Reviewer's report:

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Please overwrite this text when adding your comments to the authors. Plant names not properly written. "wilhelmssi" should start with lower case w and not upper case W.

In the introduction line 73, the subtype of muscarinic receptor in parietal cells mediating acid secretion is M1 and not M2, hence selective M1 receptor blockers such as pirenzepine are used in ulcer treatment.

The last line (sentence) of introduction is very clumsy and does not reflect the aim/objective of the study.

800 mg/kg appears to me as a non pharmacological dose (very high). What is the LD50 of the extract.

The experimental groupings are should be rearranged for better understanding, eg Gp1 Normal control (Distilled water,.dose), Gp 2 Vehicle control (CMC...Dose), Gp 3 Indomethacin 45 mg/kg, Gp 4 Indomethacin (45 mg/kg) + AW (800 mg/kg).

Why are you specific on indomethacin-induced ulcer? Many ulcers are not indomethacin or NSAIDs-induced. You should also employ other ulcer models eg alcohol, histamine and stress-induced ulcer models for your conclusion be more scientific and acceptable.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

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

No

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:

Needs some language corrections before being published

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