Reviewer’s report

Title: Caffeoylquinic acid derivatives Rich Extract from Gnaphalium pensylvanicum willd. Ameliorates Hyperuricemia and Acute Gouty Arthritis in Animal Model

Version: 2 Date: 04 May 2017

Reviewer: Xiaoming Jin

Reviewer's report:

Limited treatment is available for hyperuricemia and gout. Based on their previous work, the authors report results of analysis of Gnaphalium pensylvanicum, and show its effect in improving uric acid metabolism and kidney histology, and reducing inflammatory responses. While this work has interesting clinical significance, several issues need to be addressed.

1. The manuscript needs to be further and heavily revised and improved in writing. There are many errors in sentence structures and grammar, which greatly affect result interpretation and the quality of the paper. For example, every acronym (such as mGLUT9, mOAT1 and mURAT1) should be spelled out at the first time it appears in Abstract and in the text.

2. The second and third paragraphs of the Discussion should be moved to the Introduction, because they justify why these tests on OAT1, GLUT9 etc. and TNF and IL-1b were done.

3. In Figure 5, the "Paw Thickness (CM)" was between 2.4-3.0 cm. 3 centimeters is about two-finger width. Should this be mm? Also, were the researchers blinded to group assignment and treatment condition?

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.

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:

Needs some language corrections before being published

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