Review of: "Hepatoprotective Effect of the Ursolic Acid-Oleanolic Acid Mixture Administered Intragastrically in Mice with Liver Damage Induced by Anti-TB Drugs"

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Potential competing interests: No potential competing interests to declare.

The article sought to investigate the Hepatoprotective Effect of the Ursolic Acid-Oleanolic Acid Mixture Administered Intragastrically in Mice with Liver Damage Induced by Anti-TB Drugs. The author obtained the UA/OA mixture from the methanolic extract (MeOH) of Rosmarinus officinalis and administered the mixture intragastrically to mice at different concentrations. The authors were able to demonstrate that the mixture was able to prevent hepatic damage in the mice.

However, I will suggest that this manuscript be rejected.

Major comments:

This article is similar to another article published in the Journal of the Asian Pacific Journal of Tropical Medicines. The only difference is that the route of administration of the UA/OA mixture was S.C. The author might want to re-explain the rationale of this study based on this key fact, and more data should be added to demonstrate the novelty of the study.

Other comments:

1. Why use extra virgin olive oil to dissolve the UA/OA mixture? It would be good for this to be included in the manuscript. Also, while using the olive oil to dissolve the UA/OA mixture, the author used a different solvent instead of the solvent used to dissolve the UA/OA mixture. A rationale for this is needed.
2. There is no need for the author to state the results of the study in the introduction part of the article.
3. There are a few grammatical errors in the manuscript that need to be checked.
4. It would be good to describe the histological analysis and the quantification of parameters of oxidative stress sections briefly.
5. What is the meaning of GPC? This should be included in the manuscript upon first usage.
6. Concerning the ‘Obtaining and identification of the UA/OA mixture’ section of the manuscript, detailed results in figure form would be good to understand the results of the study, especially the spectral data from the Hydrogen Nuclear Magnetic Resonance (1H- RMN) analysis.
7. How were hepatic hematopoiesis, hepatic microabscesses, lymphoid infiltrate, steatosis, and centrilobular hydropic degeneration evaluated? It would be good to indicate each parameter on the figure with the help of arrows.
8. Citations have been poorly cited in the manuscript.
9. What were the criteria for choosing the 10mg/kg and 20mg/kg doses of UA/OA?

10. The number of mice used in each group is not enough to yield definitive results. The age of the mice has not been given.