

Review Form 3

Journal Name:	Journal of Complementary and Alternative Medical Research
Manuscript Number:	Ms_JOCAMR_128372
Title of the Manuscript:	HISTOMORPHOLOGICAL IMPACT OF AQUEOUS EXTRACT OF TALINUM TRIANGULARE ON PARACETAMOL-INDUCED HEPATIC CELL INJURY IN WISTAR RATS
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript is important for the scientific community because it provides new insights into the hepatoprotective potential of <i>Talinum triangulare</i> against paracetamol-induced liver damage, a common yet critical health issue globally. By demonstrating the ability of this plant extract to promote liver healing through histomorphological analysis, the study contributes to the growing body of evidence supporting the use of natural and alternative therapies for liver diseases. These findings not only advance our understanding of <i>Talinum triangulare</i> 's medicinal properties but also offer potential for developing safer, cost-effective treatments for liver injury, encouraging further research in the field of phytotherapy and hepatology	
Is the title of the article suitable? (If not please suggest an alternative title)	Hepatoprotective Effects of <i>Talinum triangulare</i> Aqueous Extract on Paracetamol-Induced Liver Damage in Wistar Rats: A Histomorphological Study	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	<p>The abstract is generally clear and informative; however, there are some areas that could be improved for better clarity and comprehensiveness:</p> <ol style="list-style-type: none"> Objective: The objective of the study is mentioned but could be expressed more explicitly to emphasize the specific aim of investigating the hepatoprotective effects of <i>Talinum triangulare</i> extract against paracetamol-induced liver damage. For example: <i>'This study aims to evaluate the potential of Talinum triangulare aqueous extract in protecting and repairing liver damage induced by paracetamol through histomorphological analysis in Wistar rats.'</i> Methods: While the experimental design is briefly mentioned, it would be helpful to include a concise summary of the treatment groups and the key methodological steps. For example: <i>'Thirty-five Wistar rats were divided into five groups: a negative control, a positive control (paracetamol only), and three treatment groups receiving paracetamol followed by 100, 200, or 300 mg/kg body weight of T. triangulare extract for seven days.'</i> Results: The abstract already highlights the significant healing observed in the treatment groups, but it would be better to include a brief mention of specific findings, such as reduced necrosis, inflammation, or improved hepatocyte regeneration, to give readers a clearer picture of the outcomes. Conclusion: The conclusion could be made stronger by summarizing the key finding and its significance more effectively. For instance: <i>'The findings indicate that T. triangulare extract exhibits significant hepatoprotective effects, suggesting its potential as a natural remedy for managing paracetamol-induced liver injuries.'</i> <p>Overall, adding these points will make the abstract more comprehensive and provide readers with a clear overview of the study's purpose, methods, key findings, and significance</p>	

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<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>The manuscript appears to be scientifically correct overall; however, there are areas where additional clarity and verification could enhance its rigor:</p> <ol style="list-style-type: none"> Dose Selection: The manuscript does not provide sufficient information on how the doses of <i>Talinum triangulare</i> extract (100, 200, and 300 mg/kg) were determined. Clarifying whether these doses were based on previous studies, toxicity tests, or dose-response experiments would strengthen the scientific validity. Mechanisms of Action: While the study demonstrates the hepatoprotective effects of <i>Talinum triangulare</i>, the underlying mechanisms (e.g., antioxidant activity, anti-inflammatory properties) are not fully discussed. Including more references to support the mechanisms of action observed would provide a stronger scientific foundation for the results. Statistical Analysis: The manuscript does not mention whether statistical analysis was performed to compare results between groups. Adding statistical tests (e.g., ANOVA or t-test) to validate differences observed in histological findings will improve the reliability of the conclusions. Ki67 Marker Interpretation: The discussion on the Ki67 marker is brief. Since Ki67 is a proliferation marker, it would be helpful to explain more clearly how reduced expression indicates limited hepatocyte regeneration and its implications for liver recovery. Comparative Discussion: Strengthen the discussion by comparing the study results with findings from other studies on natural hepatoprotective agents or similar plant extracts. This will help place the current findings in a broader scientific context. <p>In conclusion, while the manuscript is scientifically sound, addressing these points will improve its overall clarity, robustness, and contribution to the field."</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>		
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language used in the article is generally understandable; however, there are areas where improvements could enhance clarity, readability, and suitability for scholarly communication:</p> <ol style="list-style-type: none"> Grammar and Sentence Structure: Some sentences are overly long or lack grammatical precision, which can make them difficult to follow. For example: <ul style="list-style-type: none"> "The extract was dissolved in water to appropriate concentration for administration." <ul style="list-style-type: none"> Could be revised to: "The extract was dissolved in water at an appropriate concentration for administration." Clarity and Conciseness: Certain phrases could be rephrased to improve clarity and conciseness. For example: <ul style="list-style-type: none"> "Histomorphological examination after the experimental period revealed serious liver deterioration in the untreated group (Group 2), but the <i>T. triangulare</i>-treated groups (Groups 3, 4, and 5) demonstrated significant healing." <ul style="list-style-type: none"> Suggested revision: "Histomorphological examination showed significant liver deterioration in the untreated group (Group 2), whereas Groups 3, 4, and 5 treated with <i>Talinum triangulare</i> extract exhibited notable recovery." Consistency in Terminology: Ensure consistent use of scientific terms and formatting throughout the manuscript. For instance, avoid switching between "paracetamol" and "acetaminophen" unless required for context. Academic Tone: While the manuscript maintains a formal tone, minor adjustments in word choice could elevate the scholarly quality. For example: <ul style="list-style-type: none"> Replace informal terms like "serious liver deterioration" with more precise alternatives such as "severe hepatic damage." Proofreading: It is recommended to perform a thorough proofreading or consider professional language editing services to ensure the manuscript meets the highest standards of academic English. <p>Overall, while the manuscript's language is adequate for general understanding, addressing these issues will enhance its suitability for scholarly communication, ensuring clarity, precision, and professionalism.</p>	
<p><u>Optional/General</u> comments</p>	<p>Overall, the manuscript presents interesting findings on the hepatoprotective effects of <i>Talinum triangulare</i> against paracetamol-induced liver damage. The experimental design is clear, and the histological analysis adds value to the study. However, I encourage the authors to explore the mechanisms of action (e.g., antioxidant and anti-inflammatory pathways) in more depth in future studies. Including biochemical markers, such as liver enzymes (ALT, AST), would further validate the findings and strengthen the conclusions. Additionally, improving the language for clarity and consistency will enhance the manuscript's quality for scholarly communication</p> <p>The manuscript has appropriately addressed ethical considerations. The authors have stated that ethical approval was obtained from the Research and Ethics Committee, University of Nigeria, Enugu. No ethical concerns are identified.</p> <p>The authors have appropriately addressed competing interests by clearly stating that they have no known financial, professional, or personal relationships that could influence the work. No competing interest issues are identified in this manuscript</p> <p>The manuscript shows no major concerns regarding plagiarism; however, there are instances of repetitive phrases, such as 'triangulare aqueous extract for 7 days.' I recommend reducing redundancy by paraphrasing and combining similar sentences to improve readability and maintain a scholarly tone.</p>	

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PART 2:

	<u>Reviewer's comment</u>	<u>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</u>
<u>Are there ethical issues in this manuscript?</u>	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	

Reviewer Details:

<u>Name:</u>	<u>Widy Susanti Abdulkadir</u>
<u>Department, University & Country</u>	<u>Universitas Negeri Gorontalo, Indonesia</u>