

Review Form 3

Journal Name:	Journal of Complementary and Alternative Medical Research
Manuscript Number:	Ms_JOCAMR_120547
Title of the Manuscript:	Sub-chronic Hepatotoxicity Assessment of Ghana Cleanser® in Exposed Wistar Rats
Type of the Article	

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

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Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.		
Are subsections and structure of the manuscript appropriate?		
Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. =		

Review Form 3

<p>Minor REVISION comments</p> <p>Is language/English quality of the article suitable for scholarly communications?</p>		
<p><u>Optional/General</u> comments</p>	<p>Here are some suggestions for correcting and improving the manuscript:</p> <p>Title: "Sub-chronic Hepatotoxicity Assessment of Ghana Cleanser® in Exposed Wistar Rats"</p> <p>Abstract:</p> <p>Change "thirty (30) male and female rats" to "thirty male and female rats".</p> <p>Specify that "10.0 mL/kg distilled water" refers to the control groups' treatment.</p> <p>Clarify "A modified Lorke's method" as "a modified Lorke's method" for consistency.</p> <p>The phrase "Results suggest caution in the long-term use of the polyherbal mixture due to its hepatotoxic potential" should be emphasized more clearly.</p> <p>Introduction:</p> <p>Correct minor grammatical errors, such as changing "predates human civilization" to "dates back to pre-human civilization times".</p> <p>Enhance clarity by rewriting: "The World Health Organization estimates that about 75% of the world population consumes herbal remedies for health and recreational purposes^{2,3}" to "The World Health Organization estimates that approximately 75% of the world population uses herbal remedies for health and recreational purposes".</p> <p>Remove redundancy, e.g., "potentially leading to impurities and contaminants such as heavy metals and microorganisms (bacteria and viruses) harmful to consumers".</p> <p>Rephrase "the consumption of herbal preparations persists due to their availability and folkloric use in treating many ailments" to "the widespread use of herbal preparations persists due to their availability and traditional use in treating various ailments".</p> <p>Specify the significance of "North-Central Nigeria" and add context where necessary.</p> <p>Materials and Methods:</p> <p>Clarify "The stock concentration was obtained following the method of reference 5" by providing more context or explanation.</p> <p>Ensure consistent and clear units, e.g., "The animals were kept under ideal conditions (ULTIMA Feeds, Nigeria Ltd)" should</p>	

Review Form 3

	<p>specify "ideal laboratory conditions".</p> <p>Correct grammar in "The LD50 of the polyherbal preparation was calculated as 3740 mg/kg (oral)" to "The oral LD50 of the polyherbal preparation was calculated to be 3740 mg/kg".</p> <p>Reformat tables to be more readable and ensure proper alignment.</p> <p>Results:</p> <p>Make the biochemical results section clearer by presenting them in a more structured way.</p> <p>Ensure that all units and statistical significances are clearly stated and explained.</p> <p>Reformat Table 3 for consistency and clarity.</p> <p>Discussion:</p> <p>Rephrase to enhance readability: "This study's findings indicate potential hepatotoxic effects, particularly at higher doses" could be "The findings of this study indicate potential hepatotoxic effects, especially at higher doses".</p> <p>Strengthen the link between biochemical markers and histopathological changes by providing more detailed explanations and context.</p> <p>Conclusion:</p> <p>Emphasize key findings and implications more strongly, ensuring the conclusion is impactful and highlights the importance of the study.</p> <p>References:</p> <p>Ensure all references are formatted consistently according to the journal's style guide.</p> <p>Verify that all references are accurate and complete, and consider updating any outdated references if more recent research is available.</p> <p>Detailed Line-by-Line Corrections:</p> <p>Abstract:</p> <p>"Polyherbal formulation doses of 374.0 mg/kg and 187.0 mg/kg were administered to groups 2-3 and 5-6, respectively."</p> <p>Change to: "Polyherbal formulation doses of 374 mg/kg and 187 mg/kg were administered to groups 2-3 and 5-6, respectively."</p> <p>"The LD50 of the polyherbal preparation was calculated as 3740 mg/kg (oral)."</p> <p>Change to: "The oral LD50 of the polyherbal preparation was</p>	
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Review Form 3

	<p>calculated to be 3740 mg/kg."</p> <p>"Histopathological assessment of hepatocytes showed no significant damage at 187 mg/kg in rats of both sexes compared to their respective controls, while degrees of pathologies such as hepatocyte inflammation, hyperplasia, and congestion were recorded at 374 mg/kg in rats of both sexes."</p> <p>Change to: "Histopathological assessment of hepatocytes showed no significant damage at 187 mg/kg in rats of both sexes compared to controls. However, at 374 mg/kg, pathologies such as hepatocyte inflammation, hyperplasia, and congestion were observed in rats of both sexes."</p> <p>Introduction:</p> <p>"The use of plants for medicinal purposes predates human civilization."</p> <p>Change to: "The use of plants for medicinal purposes dates back to pre-human civilization times."</p> <p>"Traditional medicine practices form a significant percentage of the healthcare system in many developing countries in Asia and Sub-Saharan Africa¹."</p> <p>Change to: "Traditional medicine practices constitute a significant portion of the healthcare system in many developing countries across Asia and Sub-Saharan Africa¹."</p> <p>"The World Health Organization estimates that about 75% of the world population consumes herbal remedies for health and recreational purposes^{2,3}."</p> <p>Change to: "The World Health Organization estimates that approximately 75% of the global population uses herbal remedies for health and recreational purposes^{2,3}."</p> <p>"However, the claim that herbal formulations are potent against an array of ailments and safe for human consumption due to their 'natural' origin has not been scientifically validated."</p> <p>Change to: "However, claims that herbal formulations are effective against a variety of ailments and safe for human consumption due to their 'natural' origin lack scientific validation."</p> <p>"Moreover, the production process of these herbal formulations (HF) often lacks standardization, necessary machinery, and hygiene, potentially leading to impurities and contaminants such as heavy metals and microorganisms (bacteria and viruses) harmful to consumers."</p> <p>Change to: "Furthermore, the production process of these herbal formulations (HFs) often lacks standardization, necessary machinery, and hygiene, potentially resulting in impurities and contaminants such as heavy metals and harmful microorganisms."</p> <p>"The cost of conventional healthcare also contributes to the</p>	
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Review Form 3

	<p>increased use of more affordable herbal remedies."</p> <p>Change to: "The high cost of conventional healthcare also contributes to the increased use of more affordable herbal remedies."</p> <p>Materials and Methods:</p> <p>"Preparation of Stock Solution: The herbal formulation (Batch number G43221, NAFDAC registration number A7-9528 L) was purchased from a pharmacy outlet in Mararaba, Nasarawa State."</p> <p>Change to: "Preparation of Stock Solution: The herbal formulation (Batch number G43221, NAFDAC registration number A7-9528 L) was procured from a pharmacy outlet in Mararaba, Nasarawa State."</p> <p>"The stock concentration was obtained following the method of reference 5."</p> <p>Change to: "The stock concentration was prepared following the method described in reference 5."</p> <p>"The animals were kept under ideal conditions (ULTIMA Feeds, Nigeria Ltd), with a 12-hour light/12-hour dark cycle."</p> <p>Change to: "The animals were kept under optimal laboratory conditions, with a 12-hour light/12-hour dark cycle and fed with ULTIMA Feeds (Nigeria Ltd)."</p> <p>"The LD50 of the polyherbal preparation was calculated as 3740 mg/kg (oral)."</p> <p>Change to: "The oral LD50 of the polyherbal preparation was determined to be 3740 mg/kg."</p> <p>Results:</p> <p>"Table 3 presents the biochemical results for ALT, AST, and ALP activities. Elevated enzyme activities suggest potential hepatotoxic effects at higher doses."</p> <p>Change to: "Table 3 presents the biochemical results for ALT, AST, and ALP activities. The elevated enzyme activities observed suggest potential hepatotoxic effects, particularly at higher doses."</p> <p>"Histological examination revealed no significant damage at 187 mg/kg doses. However, 374 mg/kg doses showed inflammation, hyperplasia, and congestion, indicating dose-dependent hepatotoxicity (Figures 1-3)."</p> <p>Change to: "Histological examination revealed no significant damage at the 187 mg/kg dose. However, at the 374 mg/kg dose, inflammation, hyperplasia, and congestion were observed, indicating dose-dependent hepatotoxicity (Figures 1-3)."</p> <p>Discussion:</p> <p>"This study's findings indicate potential hepatotoxic effects,</p>	
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Review Form 3

	<p>particularly at higher doses."</p> <p>Change to: "The findings of this study indicate potential hepatotoxic effects, especially at higher doses."</p> <p>"Elevated serum transaminase and alkaline phosphatase activities suggest liver injury, consistent with histopathological findings."</p> <p>Change to: "Elevated serum transaminase and alkaline phosphatase activities suggest liver injury, which is consistent with the histopathological findings."</p> <p>"Although the formulation is registered and purported to be safe, these results underscore the need for caution and further comprehensive toxicological evaluations to ensure public safety."</p> <p>Change to: "Although the formulation is registered and purported to be safe, these results underscore the need for caution and further comprehensive toxicological evaluations to ensure public safety."</p> <p>Conclusion:</p> <p>"The sub-chronic hepatotoxicity assessment of Ghana Cleanser® in Wistar rats indicates dose-dependent liver injury, evidenced by elevated biochemical markers and histopathological changes."</p> <p>Change to: "The sub-chronic hepatotoxicity assessment of Ghana Cleanser® in Wistar rats indicates dose-dependent liver injury, as evidenced by elevated biochemical markers and histopathological changes."</p> <p>"These findings suggest that while the product may have therapeutic benefits, its long-term use at higher doses may pose hepatotoxic risks."</p> <p>Change to: "These findings suggest that while the product may have therapeutic benefits, its long-term use, particularly at higher doses, may pose hepatotoxic risks."</p> <p>References:</p> <p>Ensure that all references are formatted consistently according to the journal's style guide.</p> <p>Verify that all references are accurate and complete, and consider updating any outdated references if more recent research is available.</p> <p>By implementing these suggestions, the manuscript will be more clear, concise, and consistent.</p>	
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Review Form 3

PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Ved Bhushan Sharma
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