

ReviewForm3

JournalName:	SouthAsianResearchJournalofNaturalProducts
ManuscriptNumber:	Ms_SARJNP_130661
TitleoftheManuscript:	EFFECTSOF THE ADMINISTRATIONOF VARIOUSFORMULATIONSOFCOCOYAM-BAMBARAGROUNDNUT-SOYABEANFLOUR BLENDS ON THE SERUM LIPIDS & INFLAMMATORY BIOMARKERS OF STREPTOZOTOCIN-INDUCED DIABETIC RATS.
TypeoftheArticle	OriginalResearchArticle

PART1: Comments

	Reviewer'scomment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that a author 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.	<p>This manuscript provides valuable insights into the potential of a readily available and affordable dietary intervention for diabetes management. The findings demonstrate that a specific formulation of the cocoyam- bambara groundnut-soya bean flour blend can effectively modulate key metabolic parameters in diabetic rats, including inflammatory biomarkers, serum lipids, and bilirubin levels. These results contribute significantly to the growing body of evidence supporting the use of plant-based diets to prevent and manage chronic diseases like diabetes. Furthermore, this research encourages further investigation into these plant-based interventions' underlying mechanisms of action and their potential for translation into human clinical trials.</p> <p>The study emphasizes the importance of exploring and utilizing readily available and affordable natural resources for addressing global health challenges like diabetes. This research has the potential to inform the development of novel and sustainable dietary strategies for diabetes management, particularly in resource- limited settings.</p>	Okay noted
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, while informative, could be more concise and impactful- "Hypoglycemic and Anti-inflammatory Effects of a Cocoyam-Bambara Groundnut-Soya Bean Flour Blend in Streptozotocin-Induced Diabetic Rats"	Done as suggested

ReviewForm3

<p>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>	<p>The current abstract is generally comprehensive, but it could be improved with a few additions:</p> <ol style="list-style-type: none">1. Briefly mention the hypoglycemic effects: While the abstract focuses on serum lipids, inflammatory markers, and bilirubin, it doesn't explicitly mention the hypoglycemic effects of the flour blend, which is a crucial aspect of diabetes management.2. Quantify the effects of the most effective formulation: Instead of just stating that "Formulation 1 showed more potent hypercholesterolaemic and anti-inflammatory activities," it would be beneficial to quantify the observed effects. For example, "Formulation 1 significantly reduced total cholesterol by X% compared to the diabetic control group."3. Briefly mention the potential clinical implications: The abstract could end with a concise statement about the potential clinical implications of the findings. For example, "These findings suggest that a cocoyam-bambara groundnut-soya bean flour blend may be a promising dietary adjunct for the management of diabetes mellitus, warranting further investigation in human clinical trials."	
<p>Is the manuscript scientifically correct? Please write here.</p>	<p>Explores a potentially valuable area of research– the use of locally available and affordable plant-based foods for diabetes management. This aligns with the growing interest in natural and integrative approaches to healthcare. If the findings are replicated in humans, this research could have significant implications for developing cost-effective and accessible dietary interventions for diabetes management, particularly in resource- limited settings. The study investigates multiple parameters related to diabetes, including inflammatory markers, serum lipids, and bilirubin, providing a more comprehensive understanding of the flour blend's effects.</p> <p>Limited Scope: The study utilizes an animal model (streptozotocin-induced diabetic rats), which may not fully reflect the complex pathophysiology of human diabetes. The 28-day intervention period may not be sufficient to fully assess the long-term effects of the flour blend. Only a limited number of flour blend formulations were tested.</p> <p>The study primarily focuses on the outcomes without delving deeply into the underlying mechanisms of action. Understanding the specific biochemical pathways involved in the observed effects would strengthen the findings. Direct translation of these findings to human populations requires further investigation through human clinical trials.</p> <p>Overall, the manuscript presents interesting preliminary findings suggesting the potential benefit of a specific flour blend in managing diabetes in an animal model. However, further research is needed to:</p> <ul style="list-style-type: none">• Confirm these findings in human subjects.• Investigate the underlying mechanisms of action.• Explore the long-term effects and safety of the flour blend.• Optimize the formulation and dosage for optimal efficacy in humans. <p>This research serves as a valuable starting point for further investigation into the potential of plant-based dietary interventions for diabetes management.</p>	Noted
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Too many references are included. Please add only recent references. Arrange references as chronologically either in year wise or alphabetically</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language quality of the provided manuscript has some areas that could be improved to meet the standards of scholarly communication. Some sentences are overly long and complex, making them difficult to read and understand. Consider breaking down long sentences into shorter, more concise ones.</p> <p>Minor grammatical errors (e.g., subject-verb agreement, punctuation) and typographical errors may be present. Maintain a formal and objective tone throughout the manuscript</p>	Done as suggested
<p><u>Optional/General</u> comments</p>		

ReviewForm3

PART 2:

	Reviewer's comment	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)
Are there ethical issues in this manuscript?	(If yes. Kindly please write down the ethical issues here in details)	