

REVIEWER'S REPORT

Manuscript No.: IJAR-59375

Title: STUDY OF THE FRUIT PULP OF WILD RAPHIA SESE (Arecaceae): NUTRITIONAL VALUE AND PHYSIOLOGICAL EFFECTS ON BLOOD GLUCOSE REGULATION

Recommendation:

- Accept as it is
 Accept after minor revision.....
 ✓ Accept after major revision
 Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance		✓		

Reviewer Name: Dr S. K. Nath

Detailed Reviewer's Report

Strength of the study:

- Relevant topic with nutritional and pharmacological importance
- Includes both nutritional and experimental investigations
- Plant material and animal characteristics are described
- Different extract doses are evaluated
- Glibenclamide is included as a positive control
- Nutritional, mineral and phytochemical analyses are presented
- Blood glucose was monitored at multiple time points
- Tables provide detailed experimental observations
- The study explores a traditionally used plant resource

Weakness of the study:

- Major inconsistencies are present in the glucose results
- Dose response findings are contradictory across tables
- Statistical methods are inadequately described
- Animal ethical approval is not reported
- The glucose model is insufficiently described
- Sample size is very small for each treatment group
- Some tables contain unclear or incorrect values
- Nutritional energy values appear inconsistent
- Therapeutic claims for diabetes are excessive
- Grammar, spacing and formatting require extensive correction

Reviewers Comments:

The manuscript addresses an interesting topic and provides useful preliminary information on the nutritional composition and possible hypoglycaemic activity of *Raphia sese* fruit pulp. However, major revision is required because important methodological and numerical inconsistencies affect the reliability of the conclusions. The study uses 30 mice divided into five groups, but the statistical approach and assumptions are not adequately explained. More importantly, the reported blood glucose findings are inconsistent between Tables II, III and IV. The statement that higher doses produced greater glucose reduction is not consistently supported by the reported values. Ethical approval for the animal experiment and details regarding animal welfare should also be clearly provided. The experimental model should be described more precisely, particularly because a glucose load was used rather than a clearly established diabetic model. The conclusion recommending the pulp for people with diabetes is too strong for a small animal study. The manuscript also requires extensive grammar, terminology, table, reference and formatting corrections.

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Previously Published anywhere/Plagiarism check:

An exact-title search did not identify an obvious publication with the same title. However, closely related research on the same *Raphia sese* fruit pulp has already been published, including a 2026 study evaluating acute and subacute toxicity of its hydroalcoholic extract in Wistar rats. The present manuscript also cites earlier work on the physiological effects of *Raphia sese* pulp. Therefore, a formal similarity check and clarification of the originality and relationship with previous studies are recommended before publication.