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REVIEWER'S REPORT

Manuscript No.: IJAR-54962

Title: Nephroprotective Potential of Biskhapra (Trianthemaportulacastrum Linn.) Leaves Extract in Cisplatin-Induced Acute Kidney Injury in Wistar Albino Rats: An Experimental Study

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 **Date:** 25.11.25

Detailed Reviewer's Report

Strengths of the Paper

- **Clear Aim and Objectives**: The study explicitly states its aim to evaluate the nephroprotective effects of Biskhapra (Trianthemaportulacastrum Linn.) leaves against cisplatin-induced acute kidney injury in rats.
- **Use of Multiple Analytical Approaches**: The research combines biochemical, histopathological, and phytochemical analyses, providing a robust evaluation of the extract's effects.
- **Standardized Methodology**: The experimental design adheres to standard protocols, including appropriate control and treatment groups, and statistical analysis through ANOVA with post hoc testing.
- **Phytochemical Profiling**: The detailed phytochemical analysis, including HPTLC profiling, supports the standardization and reproducibility of the herbal extract.
- **Alignment with Traditional Medicine**: The study effectively links traditional Unani medicine concepts to modern pharmacological validation, adding cultural relevance.
- **Potential Clinical Implication**: Findings suggest that Biskhapra could be a promising natural nephroprotective agent, opening avenues for further research.

Weaknesses of the Paper

- **Limited Explanation of Mechanisms**: While antioxidative and anti-inflammatory effects are suggested, the molecular mechanisms underlying nephroprotection are not extensively explored.
- **Absence of Human Data**: The study is confined to animal models, and there is no discussion of potential translation to human treatments.
- **Incomplete Methodological Details**: Specific information on dosage selection, duration of treatment, and extraction protocols could be expanded for clarity and reproducibility.
- **Lack of Standard Drug Comparison**: The study mentions nephroprotective effects but does not directly compare the herbal extract with known standard nephroprotective agents besides brief references to silymarin.
- **Limited discussion on safety profile**: The safety and toxicity of the extracts at the given doses are not addressed.
- **Figures and Tables**: Some figures mentioned (e.g., figure 6) are referenced but not visually provided within this document for independent assessment.

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Reviewer Comments

- **Ethical Clearance**: The paper mentions that the study was conducted according to institutional guidelines and received approval from the Institutional Animal Ethics Committee. This is appropriate and necessary for animal studies.
- **Methodology Issues**: The extraction and treatment protocols are outlined but could benefit from more detailed descriptions, including specific doses, duration, and controls for reproducibility.
- **Typographical Mistakes**: Minor typographical errors are present, for example, inconsistent spacing and occasional formatting issues, which should be corrected.
- **Language Quality**: The English language quality is generally good, but some sentences could be refined for clarity and conciseness.
- **Formatting**: The paper exhibits some formatting inconsistencies, especially in headings and figure references, which should be standardized.
- **Clarity**: The objectives, methods, results, and conclusions are generally clear but could be strengthened with more explicit descriptions of the experimental procedures and statistical significance levels.
- **References**: The references appear relevant but are limited. An expanded list incorporating recent studies on herbal nephroprotection would be beneficial.
- **Missing Information**: Details such as the exact doses of the extracts, duration of treatment, and control group descriptions are either incomplete or missing in some sections.