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REVIEWER'S REPORT

Manuscript No.: IJAR-59613

Title: Wound Healing Efficacy of Methanolic Extract of Abhal (Juniperus communis): A Topical 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

Detailed Reviewer's Report

Strength of the study:

• Investigates a traditional Unani medicine using an experimental animal model.
• Includes 36 Wistar rats divided into three groups.
• Compares the extract with framycetin sulphate cream and an untreated control.
• Reports wound contraction at different time points.
• Measures the time required for complete epithelialization.
• Includes photographs, tables and graphs showing wound healing progress.
• Reports institutional animal ethics approval.
• Identifies the need for further dose response and safety studies.

Weakness of the study:

• The concentration and dose of extract applied to each wound are unclear.
• No vehicle control is included for the DMSO preparation.
• Histopathological confirmation of tissue repair is absent.
• No systematic assessment of local irritation or toxicity is reported.
• The sample size calculation is not described.
• Some statistical comparisons and significance values require clarification.
• Results contain inconsistencies in wound area reporting.
• Grammar, spacing, tables and references need substantial correction.

Reviewers Comments:

The manuscript evaluates the wound healing potential of methanolic Abhal extract in rats and reports wound contraction of 97.50% by day 16, close to the 98.87% observed with framycetin. The inclusion of an untreated control, a standard treatment group and serial wound photographs is useful. However, important methodological details need clarification, particularly the amount of extract applied, its final topical formulation and the possible effect of DMSO. The reported wound area values and statistical comparisons should be checked for consistency. Histopathological assessment and local safety evaluation would strengthen the findings. Institutional animal ethics approval is reported, which is appropriate. The study is limited by the absence of dose response testing and by the use of a single wound model. The discussion also makes mechanistic claims that were not directly measured. The manuscript contains frequent grammatical errors, inconsistent spacing and incomplete references. Overall, the study is promising but requires major methodological clarification and careful editing before publication.

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Previously Published anywhere/Plagiarism check:

A web search identified earlier studies on Juniperus species and wound healing, including a 2012 study evaluating Juniperus essential oils and a 2025 study of Juniperus polycarpos extract in diabetic rats. These studies are related but do not establish plagiarism. The authors should clarify the novelty of using methanolic Juniperus communis fruit extract and complete a formal similarity check before publication.