REVIEWER'S REPORT

Manuscript No.: IJAR-53766   Date: 10/09/2025

Title: Use of Combination of Vitamin D Powder with Gentamycin Injection in Management of Non-healing Wounds: A Case Report

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: 10/09/2025

Reviewer's Comment for Publication:
The paper presents an innovative, promising approach to managing non-healing wounds by combining local Vitamin D therapy with Gentamycin. While preliminary results are encouraging, further studies with larger sample sizes, control groups, and quantitative assessments are necessary to validate efficacy and safety comprehensively.

Reviewer's Comment / Report

Strengths:
1. **Innovative Approach:** The paper introduces a novel combination therapy using topical Vitamin D powder and Gentamycin injections for non-healing wounds, which is a promising and less-explored method.
2. **Clear Case Descriptions:** The case reports are detailed, including patient history, wound characteristics, treatment procedures, and outcomes, which provide valuable clinical insights.
3. **Integration of Micro-nutrient and Antibiotic Therapy:** Highlighting the potential synergistic effects of combining antimicrobial agents with immunomodulatory agents like Vitamin D adds depth to wound management strategies.
4. **Potential for Cost-effective Treatment:** The approach appears affordable and easily accessible, which is significant in resource-limited settings.

Weaknesses:
1. **Limited Sample Size:** The study is based on only one case each, which limits the generalizability of the findings and the strength of the conclusions regarding efficacy.
2. **Lack of Control Group:** Without comparative cases or control treatments, the observed improvements cannot definitively be attributed to the intervention alone.
3. **Absence of Quantitative Data:** The report does not include measurements of wound size reduction, bacterial load, or other objective metrics to substantiate healing progress.
4. **Insufficient Literature Context:** The discussion could be expanded to include more recent studies on topical Vitamin D use in wound healing, as well as existing evidence supporting combination therapies.
5. **Potential Confounding Factors:** Factors such as nutritional status, comorbidities, or concurrent treatments are not thoroughly discussed, which could influence healing outcomes.

Suggestions for Improvement:
1. **Expand Literature Review:** Incorporate more recent and comprehensive references to contextualize findings within current wound management research.

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2. **Include Quantitative Data:** Provide measurements such as wound size, bacterial load, or healing rate percentages to strengthen the evidence.
3. **Discuss Limitations:** Clearly acknowledge the limitations of case reports and the need for controlled, large-scale studies.
4. **Methodological Clarity:** Specify the concentration or dosage details of Vitamin D powder and Gentamycin, including preparation methods.
5. **Follow-up and Long-term Outcomes:** If possible, include longer-term follow-up data to assess the durability of healing and any potential complications.

Editorial and Language Corrections:

- Check for minor typos and grammatical errors throughout, such as inconsistent spacing, punctuation, and sentence structures.
- Standardize terminology (e.g., consistently use "Gentamycin" or "Genemicin" if that appears).
- Enhance clarity in some sentences for better readability, especially in the discussion section.