

REVIEWER'S REPORT

Manuscript No.: IJAR-53128

Date: 04/08/2025

Title: Although the exact title is not explicitly listed in the provided pages, the content suggests that the study pertains to osteomalacia, its association with vitamin D deficiency, microfractures, and radiological findings.

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: 05/08/2025

Reviewer's Comment for Publication:

The paper underscores the critical importance of recognizing osteomalacia, especially in young individuals with bone pain and gait disturbances. It highlights the radiological features, including microfractures, and emphasizes the role of vitamin D deficiency—common in regions like India due to cultural and lifestyle factors—in the pathogenesis of osteomalacia. The case demonstrates that appropriate supplementation with vitamin D and calcium can lead to significant clinical and radiological improvement. It advocates for increased awareness, early diagnosis, and preventive strategies to address vitamin D deficiency-related bone disorders.

Reviewer's Comment / Report

Strengths:

- Comprehensive Case Details:** The paper provides detailed clinical, radiological, and laboratory data, contributing to a clear understanding of the case.
- Radiological Evidence:** Use of MRI imaging to demonstrate the microfractures and structural bone changes effectively supports the diagnosis and adds visual clarity.
- Pathophysiological Explanation:** The discussion links clinical findings with the biochemical basis of osteomalacia and vitamin D deficiency, stressing the importance of sunlight exposure and nutrition.
- Relevance and Public Health Significance:** The paper highlights high prevalence and risk factors for vitamin D deficiency in India, emphasizing the importance of awareness and preventive measures.

Weaknesses:

- Limited Scope:** As a case report, the findings may lack generalizability without a larger sample or comparative analysis.
- Lack of Long-term Follow-up:** Although one-month follow-up shows improvement, long-term outcomes, recurrence risk, and functional recovery details are lacking.
- Absence of Treatment Details:** The specific management plan beyond vitamin D and calcium supplementation is not elaborately discussed; for instance, rehabilitation strategies or monitoring plans are not described.
- Limited Reference to Literature:** The bibliography is minimal, and there's little discussion of how this case compares with existing literature or how it adds novel insights.
- No Quantitative Data on Improvements:** The paper notes clinical improvement but lacks objective measures such as gait analysis, muscle strength quantification, or follow-up imaging.