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REVIEWER'S REPORT

Manuscript No.: IJAR-56545

Title: "A Randomised Controlled Clinical study to evaluate the efficacy of Dashmooladi Kwath Kavala and Toothpaste having a desensitizing agent in Dentine Hypersensitivity"

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

Strengths of the Study

- The study addresses a relevant and practical issue of managing dentinal hypersensitivity using Ayurvedic therapy, which adds to the growing integration of traditional medicine with modern dental practices.
- The randomized controlled trial (RCT) design enhances the scientific validity of the findings.
- The study utilizes well-defined inclusion and exclusion criteria, ensuring a clear patient population.
- The intervention methods, including Kavala and toothpaste, are described in adequate detail for reproducibility.
- Multiple clinical parameters and tests were employed to assess the efficacy, providing a comprehensive evaluation of hypersensitivity symptoms.
- The results show statistically significant improvements, indicating the potential effectiveness of Dashmooladi Kwath Kavala.
- Ethical considerations are addressed, with mentions of ethical approval and trial registration.

Weaknesses of the Study

- The sample size of 70 patients may limit the generalizability of the findings and statistical power, especially given the short duration of 10 days.
- The follow-up period is limited to 10 days, with only a brief mention of follow-up assessments, lacking long-term efficacy data.
- The study does not include objective measures such as microscopic analysis of dentinal tubule occlusion, which could improve reliability.
- Potential biases, such as patient compliance and variations in oral hygiene practices, are acknowledged but not controlled or quantified in detail.
- No mention of randomization method or allocation concealment, which are important for ensuring unbiased group allocation.
- The statistical analysis, while showing significance, lacks detailed description of tests used for certain parameters, and there's no mention of power analysis.
- The language and grammar require editing for clarity and professionalism; some sentences are awkward or incomplete.
- The presentation of tables and figures could be improved for clarity.
- The references are comprehensive but could be properly formatted according to journal standards.

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Reviewer Comments

- **Title and Abstract:** The title is descriptive but could be more concise. The abstract effectively summarizes the objectives, methods, results, and conclusion but could improve clarity with better segmentation and grammatical correction.
- **Introduction and Objectives:** The background is relevant; however, it could better emphasize the novelty of using Dashmooladi Kwath Kavala specifically for dentinal hypersensitivity. Clear statement of hypothesis and objectives is present but can be articulated more explicitly.
- **Methodology and Statistical Analysis:** The methodology is generally described, but details about randomization, blinding, and allocation concealment are lacking. The assessment parameters are comprehensive; however, the statistical analysis section needs elaboration, including specific tests used per parameter and rationale.
- **Results and Discussion:** Results are well-organized, with significant findings; however, raw data, confidence intervals, and effect sizes would add depth. The discussion appropriately correlates findings with Ayurvedic principles but should compare findings more critically with existing literature.
- **Conclusion:** The conclusions are consistent with the data; however, the claims about long-term efficacy are limited due to the short follow-up. The discussion of limitations is appreciated but needs expansion.
- **Ethical Clearance:** The manuscript mentions ethical approval, but details such as approval authority, clearance number, and informed consent procedures are limited.
- **Language:** The manuscript contains grammatical errors, typos, and awkward phrasing that should be addressed for clarity and professionalism.
- **Formatting and References:** Tables and figures need consistent formatting, proper labeling, and clearer presentation. References are extensive but need formatting according to journal guidelines.