



REVIEWER'S REPORT

Manuscript No.: IJAR-58191

Title: Resin Infiltration in Non-Surgical Caries Management: A Contemporary Review.

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's ID: JPR-130

Detailed Reviewer's Report

Overall Evaluation

The manuscript entitled "Resin Infiltration in Non-Surgical Caries Management: A Contemporary Review" addresses a highly relevant and contemporary topic in minimally invasive dentistry. The review is comprehensive and systematically organized, covering the biological basis, mechanism of action, clinical protocol, indications, comparative effectiveness, limitations, safety considerations, future directions, and clinical implications of resin infiltration. The authors have incorporated a substantial number of recent and relevant references, including randomized clinical trials, systematic reviews, and meta-analyses, which enhance the scientific value of the review. The manuscript is well structured, logically presented, and clinically meaningful. However, the review remains largely descriptive, with limited critical analysis of the available evidence. Minor improvements in language, presentation, and discussion would further strengthen the manuscript. Overall, the manuscript has good publication potential after suitable revisions.

Strengths

- The manuscript addresses an important and current topic in contemporary minimally invasive dentistry with significant clinical relevance.
- The review is comprehensive, covering all major aspects of resin infiltration, including biological rationale, mechanism of action, clinical procedures, indications, comparative effectiveness, limitations, safety considerations, and future developments.

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- The content is organized in a logical sequence, allowing readers to follow the progression from fundamental concepts to clinical applications and future perspectives.
- The manuscript includes numerous recent references (2023–2026), demonstrating that the review is based on up-to-date scientific evidence.
- Clinical applications are clearly described, making the review useful for both clinicians and postgraduate students.
- The discussion on emerging areas such as artificial intelligence-assisted diagnosis, bioactive infiltrants, and combination therapies adds value and reflects current advancements in the field.
- The manuscript presents a balanced overview by discussing both the advantages and limitations of resin infiltration.

Areas for Improvement

- The review would benefit from a more critical evaluation of the available literature rather than primarily summarizing previous studies. Highlighting conflicting findings and discussing the quality of evidence would improve its scientific depth.
- A brief description of the literature search strategy, including databases searched and article selection criteria, would enhance the transparency and credibility of the review.
- The inclusion of summary tables comparing resin infiltration with other non-surgical treatment modalities would improve readability and facilitate quick comparison of clinical evidence.
- Some concepts, particularly those related to minimally invasive dentistry, lesion arrest, and preservation of tooth structure, are repeated throughout the manuscript. Reducing redundancy would improve the overall flow.
- Several paragraphs are lengthy and could be divided into shorter sections to improve readability.
- Minor grammatical errors and inconsistencies in sentence construction should be corrected through careful language editing.
- The manuscript would be strengthened by including illustrative figures or schematic diagrams explaining the mechanism of resin infiltration, clinical protocol, and treatment indications.
- Additional discussion on long-term clinical outcomes, cost-effectiveness, patient-reported outcomes, and practical challenges in routine clinical implementation would further enhance the review.