

REVIEWER'S REPORT

Manuscript No.: IJAR-59097

Title: Robotics in endodontics: an integrative review of autonomy and translational readiness.

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:

- Relevant and emerging topic in endodontics
- Clear review objectives
- Useful dual axis autonomy framework
- Covers both macro and micro robotics
- Maps robotics across the endodontic workflow
- Technology readiness levels are discussed
- Evidence strength is considered
- Regulatory, economic and training issues are addressed
- Future research priorities are clearly suggested

Weakness of the study:

- Search was mainly limited to PubMed
- Engineering literature may be incompletely covered
- Study selection was purposive rather than exhaustive
- Selection bias is possible
- Reviewer assessment was not independently duplicated
- No inter reviewer agreement was reported
- Only English language studies were included
- Some conclusions depend on limited clinical evidence
- Several statements require stronger supporting evidence

Reviewers Comments:

The manuscript addresses a timely and important topic and provides a thoughtful overview of robotics across different stages of endodontic treatment. The proposed dual axis framework and technology readiness assessment are useful features. Ethical clearance is appropriately considered not applicable because the work is based entirely on published literature and involves no human or animal participants. However, major revision is recommended. The purposive search and selection process introduces a risk of selection bias, and the absence of Scopus, Web of Science and IEEE Xplore may have missed important engineering studies. The authors acknowledge these limitations appropriately. The evidence base is also dominated by laboratory studies and case reports, so clinical claims should remain cautious. Grammar, sentence construction, spacing and scientific writing are generally good but require careful editorial polishing. Overall, the manuscript is interesting, well structured and potentially valuable, but methodological limitations should be addressed before publication.

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Previously Published anywhere/Plagiarism check:

An exact title search did not identify the same publication. However, closely related reviews on robotics in endodontics have already been published, including a 2025 comprehensive scoping review and a 2024 scoping review. The present manuscript has a different focus on autonomy and translational readiness. A formal similarity check is recommended before publication.