



REVIEWER'S REPORT

Manuscript No: IJAR-56536

Title: Artificial Intelligence in Digital Dentistry: Imaging to Risk Prediction.

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. Amina

Reviewer's Comment for Publication.

The manuscript presents a comprehensive review of the applications of artificial intelligence in digital dentistry, focusing on diagnostic imaging, risk prediction, and clinical decision support. The topic is timely and relevant given the rapid expansion of AI technologies in healthcare and dentistry. The paper effectively summarizes the role of deep learning techniques, particularly convolutional neural networks, in dental imaging modalities such as radiography and cone-beam computed tomography (CBCT). It also discusses the use of AI for clinical workflow optimization and patient management, highlighting both technological potential and practical challenges.

The manuscript successfully integrates recent methodological frameworks such as TRIPOD-AI, PROBAST-AI, PRISMA-AI, and CLAIM, which strengthens the discussion regarding transparency, validation, and reporting standards in AI-based medical research. The inclusion of future directions and ethical considerations provides a balanced perspective on the responsible adoption of AI in dental practice. Additionally, the reference list is relevant and reflects important contributions in the field.

However, some minor revisions are recommended before publication. Certain sections could benefit from improved sentence structure and grammatical corrections to enhance readability. The transitions between sections, particularly between imaging applications and workflow integration, could be slightly refined for better logical flow. In addition, the manuscript would benefit from clearer explanations of some technical concepts to ensure accessibility for a broader dental audience that may not have extensive expertise in artificial intelligence or machine learning methodologies.

Overall, the manuscript provides a useful overview of current developments and challenges related to artificial intelligence in digital dentistry. With minor improvements in language clarity, structure, and presentation, the paper will be suitable for publication.