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Editorial

Revolutionizing scholarly publishing by integrating artificial intelligence into editorial and peer review processes

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The advancement of artificial intelligence (AI) heralds an exciting era. A search for AI within the context of periodontics and implants reveals a plethora of scholarly articles. Similarly, an exploration of the *Journal of Periodontal and Implant Science* (*JPIS*) for research on AI uncovers significant findings in the fields of periodontics and implants [1-4]. It has been noted that AI can significantly aid in the diagnosis and prediction of periodontally compromised teeth [3]. Furthermore, AI has been used to identify different dental implant systems using panoramic radiographic images, achieving accuracy and performance comparable to that of board-certified periodontists [4]. This suggests AI's potential as a valuable aid in diagnosis and decision-making [2]. Additionally, recent studies have emphasized the role of AI-powered chatbots in helping patients better understand their health conditions and make informed decisions [1].

We believe it is crucial for editorial boards to carefully consider the role of AI, particularly generative AI. Despite the growing interest in generative AI, its use in scientific research, and especially in the writing of scholarly papers, must be approached with caution. We agree with the view that generative AI should be seen as a tool rather than a scholarly contributor [5]. There is a concern that generative AI might compromise the integrity and authenticity of academic work, rather than support it, casting a shadow over its use in formal scientific communication [6]. On a personal level, we consider generative AI to be a valuable auxiliary resource for research discovery and manuscript preparation [7]. With the rapid advancement of generative AI technology, it is expected that AI will soon make even greater contributions. Therefore, researchers should adopt a more open and transparent approach regarding the role of AI in their studies. Ultimately, authors are responsible for the accuracy and reliability of their work when incorporating AI tools, and we urge reviewers to apply the same level of scrutiny. Moreover, if AI is to be used in the review process, it should be approached with caution to prevent any breaches of confidentiality.

We believe that AI has not yet been extensively integrated into the editing process, as a human editorial board still oversees the finalization of manuscripts. This approach is expected to yield better outcomes. However, it is anticipated that the role and influence of AI in the review and editing stages will increase over time. The verification of an author's intent before final publication becomes essential, as AI's involvement might not accurately reflect the author's original meaning, despite producing textually similar content. In response to this, the editorial board members at *JPIS* are actively engaging with these issues, gathering feedback, and developing preemptive strategies and guidelines for the journal.

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