

Letter to the editor

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We are writing this letter to congratulate you on the paper ‘Nurses’ perceptions of artificial intelligence (AI) integration into practice: An integrative review’ by Lora and Foran, recently published in your journal. In this paper the authors synthesise remarkable, valuable and challenging aspects of the new era of artificial intelligence (AI) in the clinical practice of nursing. AI has been introduced into the most diverse areas of knowledge, opening a vast range of possibilities. This integrative review makes a timely and relevant contribution to the growing body of literature on the intersection between nursing and AI. The authors show that the practice of nursing, especially in the perioperative environment, is no exception.

The authors show that the integration of AI into clinical practice has made possible the support of clinical decision-making based on data from informatics systems optimising the accuracy of diagnosis, treatment, risk control and therapeutic management. This, in turn, contributes to large scale improvements in workflow efficiency and patient outcomes.

Despite the benefits, the authors’ review also highlights that there is still suspicion about AI among some nurses, and that it is essential to develop organisational strategies based on leadership, culture, training and education to help improve attitudes towards it. In addition, it is crucial to reflect how AI implementation can be optimised and its long-term sustainability ensured, based on synergies between human resources and the integration of AI in care contexts.

We believe it would be crucial to consider not only the education and training, referenced by the authors, but also the conviction, knowledge and skills of the elements involved. As Leary et al.¹ describe, the ability of nurses to deal with innovation depends on a set of personal and organisational characteristics. It is crucial that leadership take these characteristics into account when considering how to integrate AI into clinical practice context to optimise the initial uptake of AI and influence its future in practical contexts.

Another relevant aspect that the authors’ review has shown is the importance of education and training, which we also consider fundamental. However, we believe it is necessary to consider integrating innovation, technology, AI, creativity and critical thinking into undergraduate nursing studies to deepen students’ understanding of these aspects. This approach would promote the development of comprehension and skills that are more closely aligned to present and future practices at an early stage of nurses’ professional development.

In summary, we congratulate the authors on their review and encourage the scientific community to explore and discuss the individual characteristics that enable some professionals to embrace and facilitate the implementation of AI into clinical practice, as well as possible strategies to enable the development of related and necessary skills into nursing study programs. Thanks for publishing such a thought-provoking and evidence-based article.

Reference

1. Leary M, Demiris G, Carthon J, Cacchione P, Aryal S, Bauermeister J. Determining the innovativeness of nurses who engage in activities that encourage innovative behaviors [Internet]. Nurs Rep. 2024[cited 2025 Apr 11];14:849–70. DOI: 10.3390/nursrep14020066

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DOI: 10.26550/2209-1092.1380