

LETTER TO EDITOR

Artificial intelligence and Nursing: Dawn of a new era?

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Dear Editor:

Artificial Intelligence (AI) has emerged as a transformative force across various industries and healthcare. With the ever-expanding capabilities of AI, there is growing interest in the exploration of its potential applications in nursing practice to enhance patient care, improve workflow efficiency, and possibly revolutionize healthcare systems (1). The integration of AI in clinical decision support systems has shown immense promise. AI algorithms can rapidly analyze vast amounts of patient data, symptoms, medical history, and treatment options to provide evidence-based recommendations to healthcare professionals. By augmenting clinical decision-making, AI-powered systems can assist nurses in making well-informed decisions, leading to more accurate diagnoses, personalized treatment plans, and improved patient outcomes (1, 2).

Moreover, AI technology has the potential to revolutionize patient monitoring and predictive analytics. Smart devices integrated with AI algorithms can continuously monitor patients' vital signs, detect abnormalities, and alert nurses in real-time, enabling early intervention and proactive care. Furthermore, predictive analytics can help identify high-risk patients, predict potential complications, and optimize resource allocation, leading to improvements in patient safety and resource management within healthcare facilities (3). Another thrilling application of AI in nursing is the utilization of virtual nursing assistants or chatbots. These AI-driven virtual assistants can provide patients with personalized health information, respond to their questions, and offer guidance on self-management of chronic conditions. By alleviating the

burden of routine nursing duties, virtual nursing assistants would allow nurses to focus more on direct patient care and complex tasks (4, 5). Despite the unquestionable potential benefits of AI implementation in nursing practice, it's essential to acknowledge certain considerations and challenges. Maintaining patient privacy and data security, addressing ethical concerns, ensuring the human touch in care delivery, and providing adequate training and support for healthcare professionals in adopting AI technologies are crucial aspects that need careful attention as we move forward.

In conclusion, it is evident that the application of AI in nursing practice holds immense promise and has the potential to herald a new era of healthcare. From clinical decision support systems to predictive analytics and virtual nursing assistants, AI can augment nursing practice, enhance patient outcomes, and optimize healthcare processes. However, it is imperative to proceed prudently, ensuring a delicate balance between technological advancements and empathetic human-centered care.

Declarations

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Conflict of interest

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Ethical statement

This article does not contain any studies with the human participant or animal performed by any of the authors.

Informed consent

This article did not require informed consent.

Availability of supporting data

No new data were created or analysis in this study. Data sharing is not applicable to this article.

Using artificial intelligence chatbots statement

Not used in this article.

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