Chapter 11
Active Strategies in the AI Era:
Can ChatGPT Help or Hinder Nursing Education?

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ABSTRACT

Active pedagogical strategies have enabled a paradigm shift in educational approaches, making a significant contribution to transforming knowledge-centered pedagogy into learner-centered approach. These active methods have become the most recommended for nursing education. Actually, healthcare science education has undergone a significant transformation due to current technological advancements. In fact, the launch of ChatGPT by OpenAI has revolutionized the world of teaching and learning. This chatbot quickly became the most popular, as it possesses promising features. The use of ChatGPT offers personalized learning tailored to each learner's pace, which helps to enhance motivation and autonomy. Furthermore, ChatGPT can encourage educators to develop innovative teaching practices, which positively impacts the quality of education. In summary, ChatGPT appears to be

a promising means of transforming active pedagogy. In this regard, this chapter aims to adopt a holistic view of the potential integration of ChatGPT into active pedagogical strategies in nursing education.

INTRODUCTION

The healthcare field has experienced continuous changes due to several factors, including the growth in population demands, the increase in emerging diseases, and current technological advancements. To address these challenges, nursing education must continuously evolve and adapt to technological advancements, notably by integrating innovative care models such as advanced nursing practices (Giuffrida et al., 2023). The aim of this evolution is to train competent nurses capable of handling difficult and complex care situations (Sharma et al., 2023).

Active teaching methods, originally developed by John Dewey, are highly recommended for nursing education, particularly in advanced nursing practice (Doolittle et al., 2023; Giuffrida et al., 2023). These innovative, learner-centered methods have contributed to a paradigm shift in education, transforming traditional methods into more innovative approaches that engage learners actively in their learning process. These methods include problem-based learning, case-based learning, flipped classrooms, simulation, team-based learning, project-based learning, game-based learning, and mind mapping based-learning (Bouriami et al., 2024; Ghezzi et al., 2021). These active methods enhance learner engagement and motivation through real learning situations, providing contextualized learning. Additionally, they facilitate the development of skills such as communication, teamwork, and critical thinking. (Bouriami et al., 2024; Culha, 2019; Konopka et al., 2015).

Actually, artificial intelligence has revolutionized several fields of education (Maney, 2023), including nursing science (Sharma et al., 2023). It is a discipline aimed at automating tasks that rely on human intelligence. Undoubtedly, artificial intelligence will bring inevitable changes to our future lives (Sharma et al., 2023). This revolution culminated in the launch of ChatGPT, a language model introduced by OpenAI at the end of November 2022, which offers impressive functionality. It can generate paragraphs on a wide range of topics in response to a text query in just a few seconds (Tam et al., 2023). In March 2023, a more advanced version, ChatGPT-4.0, was released. This is a paid version that offers additional features (Athilingam & He, 2023).

A chatbot based on artificial intelligence is a computer system capable of accurately and coherently responding to complex textual queries and engaging in interactive, real-time conversations on a variety of topics. These capabilities are due

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