

Title: Artificial intelligence as an innovative approach for investment in the future of healthcare in Egypt

Eman Salman Taie

Helwan University, Egypt

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Background: Artificial Intelligence (AI) is receiving a lot of attention from investors, the press, and the labor force across all industries. While AI has already achieved widespread adoption in specific sectors, the complexities of healthcare have resulted in slower adoption. **Aim:** To explore the emerging of artificial intelligence as an innovative approach for investment in the future of healthcare in Egypt. **Method-** The study is quasi-experimental conducted in Shams Specialized Hospital, Dar el-Shefaa hospital in Cairo, and Dar El Foad Hospital. Study subjects were composed of two groups: managers (nurse and medical) and patients. Three questionnaires were used for data collection (Managers' knowledge about artificial intelligence, Managers' perception of artificial intelligence, and patients' perception about the application of AI in healthcare). **Results–** All of the managers, either nurse or medical, had a lack of knowledge about AI. Nurse Managers perceived most items positively regarding the application of artificial intelligence in nursing, while medical managers perceived all items positively regarding the application of artificial intelligence in medicine. On the same line, the highest percentage of patients agreed upon the application of artificial intelligence in healthcare. **Conclusion-** There was a highly significant difference ($p < 0.001$) between managers' knowledge about AI before and after awareness sessions. The majority of nurses and medical managers' perceived the application of AI positively in nursing and medicine. Also, patients perceived the application of AI in healthcare positively. **Recommendations-** Restructuring of nursing and medical curricula to introduce the AI concept in healthcare, development and adoption of new staffing and training strategies to use technology in healthcare and utilization of high-performing and reliable network capabilities to fit using AI.

Keywords: Artificial Intelligence, healthcare, nurse manager, medical manager, patients.

Biography

Professor Eman Salman Mohamed Salman Taie is professor of Nursing Administration - Faculty of Nursing- Helwan University- Cairo- Egypt. She was Ex. Head of Nursing Administration Department in Faculty of Nursing – Helwan University. She is International Certified Trainer and Human Resource Development Consultant in International Board for Certified Trainer (IBCT). She has more than 25 international published researches and four international published books. She is reviewer and member in the editorial board in many of the international journals.