25TH NATIONAL & 11TH INTERNATIONAL ANNUAL CONGRESS | ON RESEARCH AND TECHNOLOGY OF IRANIAN MEDICAL SCIENCES STUDENTS
URMIA UNIVERSITY OF MEDICAL SCIENCES, URMIA, IRAN

# Role of Artificial Intelligence in Improving Nursing Services: A Systematic Review

Amir Mohammad Nejadsheikh*, Amir Hosein Jalili, Maryam Mamlekatkhah

Student Research Committee of Khalkhal University of Medical Sciences, Khalkhal, Iran

**OPEN ACCESS**

***Corresponding Author:**
Student Research Committee of Khalkhal University of Medical Sciences, Khalkhal, Iran

**Citation:**
Nejadsheikh Am, Jalili AH, Mamlekatkhah M. Role of Artificial Intelligence in Improving Nursing Services: A Systematic Review. *Iranian biomedical journal*. Supplementary (12-2024): 275.

**ABSTRACT**

**Introduction:** As the first line of defense against diseases, nurses perform exhausting services, which in the long run causes nurses to burn out. In order to reduce the pressure on jobs, facilities such as artificial intelligence (AI) can be used. The purpose of this research was to determine the impact of AI in improving nursing services.

**Search Strategy:** In the current review, articles published from 2000 to October 2023 were used in the databases PubMEd, SID, Science Direct, Magiran, Google scholar. The keywords used were [("Artificial Intelligence" OR "Machine Intelligence") AND ("Nursing services" OR "Nursing")] and ("Nursing" "Artificial Intelligence" "Services"). The criteria for including articles in the review were that the clinical trial must be a controlled case, available in both Farsi and English, and must conforms to the established criteria.

**Results:** Based on the searches conducted in the specified databases, 339 articles were identified. Among these, the following topics were included in the study and reviewed: (1) the promotion of management in critical situations, and (2) the Promotion of nursing.

**Conclusion and Discussion**: According to the available studies, AI has enhanced the work of nurses by reducing errors, increasing focus, and improving patient satisfaction with the services provided. Some studies indicates that AI contributes to the overall health of both nurses and patients while also decreasing the time required for nursing tasks. However, certain studies have noted that AL is unable to perform complex and specialized nursing procedures, such as resuscitation. Additionally, many studies emphasize that nursing ethics are often overlooked in the application of AL due to its rapid advancement. The lack of sufficient research and the critical need to prevent burnout among nurses suggest that further studies in this area are necessary.

*Keywords:* Artificial intelligence, Nursing, Nursing services

[ Downloaded from ibj.pasteur.ac.ir on 2026-09-10 ]

[ DOI: 10.61186/ibj.25th-11th-IACRTIMSS ]