



## PERCEPTION ON ARTIFICIAL INTELLIGENCE IN FUTURE NURSING PRACTICES AMONG NURSES

### Nursing

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### ABSTRACT

**Introduction:** Artificial Intelligence (AI) is a set of technologies that enable computers to perform a variety of advanced functions, including the ability to see, understand and translate spoken and written language, analyze data, make recommendations, and more. Artificial Intelligence (AI) is developing at a rapid pace and finding new applications across the health service team. Artificial Intelligence (AI) holds the promise of supporting nurses' clinical decision-making in complex care situations or conducting tasks that are remote from direct patient interaction, such as documentation processes. There has been an increase in the research and development of AI applications for nursing care, but there is a persistent lack of an extensive overview covering the evidence base for promising application scenarios. **Objective of the study** The main objective of the study is to assess the perception on integration of AI in to nursing practice. **Methodology** The investigator utilized a descriptive survey approach in order to assess the perception on integration of AI in to nursing practices. Participants were selected using a non-probability convenience sampling approach. Based on the objectives, baseline Performa and structured rating scale was prepared in order to collect the data. The study data were gathered through an online survey administered via google forms and responses were collected electronically from eligible participants who voluntarily consented to participate. **Result** The finding of the study shows that 60% nurses had good perception, 24% had moderate perception and only 16% had poor perception regarding implementation of Artificial Intelligence in future nursing practices. **Conclusion** The conclusion of this study is the maximum number of nurses had positive perception for implementation of Artificial Intelligence in future nursing practices.

### KEYWORDS

Artificial Intelligence, Perception, Nursing Practices

### INTRODUCTION

Artificial Intelligence (AI) is developing at a rapid pace and finding new applications across the health service team. Some professionals have voiced concerns over the implementation of AI, whilst others predict greater job opportunities in the future. Nursing practice will be directly affected and further information is required on the knowledge and perceptions of nurses regarding the integration of AI in practice. The healthcare landscape is rapidly evolving, with Artificial Intelligence (AI) emerging as a transformative force. In this context, understanding the viewpoints of nursing professionals regarding the integration of AI in future nursing care is crucial.

### MATERIALS AND METHODS

#### Objectives of the Study

1. To assess the perception of Artificial Intelligence in future nursing practices among staff nurses.

The conceptual framework used in this study was based on Becker's Health Belief Model. The investigator utilized a descriptive survey approach in order to assess the perception of Artificial Intelligence in future nursing practices. By using the convenience sampling technique, a sample of 100 staff nurses were selected. Based on the objectives, baseline proforma and structured rating scale was prepared in order to assess the level of perception of Artificial intelligence. The coefficient of internal consistency of the psychological problems and coping rating scale was checked by using Cronbach's alpha. The reliability for rating scale was found to be 0.82. A pilot study was conducted among 10 samples and participants who have signed informed consent were introduced to study tools and data were collected.

### RESULT

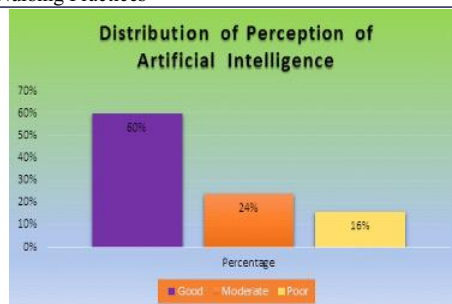
The gathered data were organized in logical systematic manner and SPSS 22 version was used to analyze. The analyzed data presented in following manner:

#### Section I : Percentage distribution of perception level of Artificial Intelligence in nursing practice.

**TABLE 1: Percentage distribution of perception level of Artificial Intelligence in nursing practice.**

| Category  | Responses obtained | Total Responses | Percentage |
|-----------|--------------------|-----------------|------------|
| Agree     | 240                | 400             | 60 %       |
| Uncertain | 96                 | 400             | 24 %       |
| Disagree  | 64                 | 400             | 16 %       |

**Figure 1 : Bar diagram showing percentage distribution of perception score of Nurses regarding Artificial Intelligence in nursing practices.**



### DISCUSSION

The findings of the present study revealed that majority of the nurses had good perception (60%) moderate perception (24%) and 16% of the nurses had poor perception.

### CONCLUSION

The findings of the study revealed that the majority of participants demonstrated good level of perception regarding Artificial Intelligence in nursing practices. This suggests that the participants possess adequate understanding and positive viewpoints related to the subject under investigation. The overall findings reflect satisfactory awareness among the study population and emphasize the importance of sustaining and further strengthening this positive perception through continuous education, awareness programmes, and evidence-based interventions.

### CONFLICT OF INTEREST: None

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