Submitted by

Atika Naushad (0293)

Master of Business Administration In Pharmaceutical Management

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Guided by

Mr. Surya Prakash

Assistant Professor

School Of Pharmaceutical Management

IIHMR UNIVERSITY, JAIPUR

The Role of Artificial Intelligence in Enhancing Healthcare Delivery and Improving Patient Outcomes

Introduction

Impact of AI in healthcare sector:

- have the potential to improve the skills of medical practitioners
- increase the accuracy of diagnoses
- simplify the therapeutic process
- ultimately result in better patient care

Objectives

- To investigate existing uses of AI in healthcare, such as patient care, therapeutic methods, and diagnostic accuracy.
- To evaluate the advantages and difficulties of AI integration in healthcare systems.
- To evaluate how AI is affecting patients, healthcare workers, and the overall standard of care.
- To look into the ethical issues and legal frameworks around the use of AI in healthcare.
- To identify potential future trends and possibilities that will help AI-driven healthcare improve.

AI in Healthcare

- Medical Imaging and Diagnostics
- Clinical Decision enhance Systems
- Electronic Health Records (EHR) and Medical Documentation
- Drug Discovery and Personalized Medicine
- Remote Patient Monitoring

Advantages of AI in Healthcare

- can improve healthcare practitioners' abilities
- AI systems are able to spot patterns and trends in patient data that might not be visible to humans, leading to early disease identification and better prognostic skills.
- AI can also automate administrative duties like data entry and documentation, freeing up the time of healthcare workers to focus on patient care.

Research Methodology

Objective

Primary Objective: To investigate and analyse the role of artificial intelligence (AI) in enhancing healthcare delivery and improving patient outcomes.

Secondary Objective: To identify the potential challenges and ethical considerations associated with the use of artificial intelligence (AI) in healthcare and propose strategies to mitigate them.

Methodology

Study Design: Descriptive Study

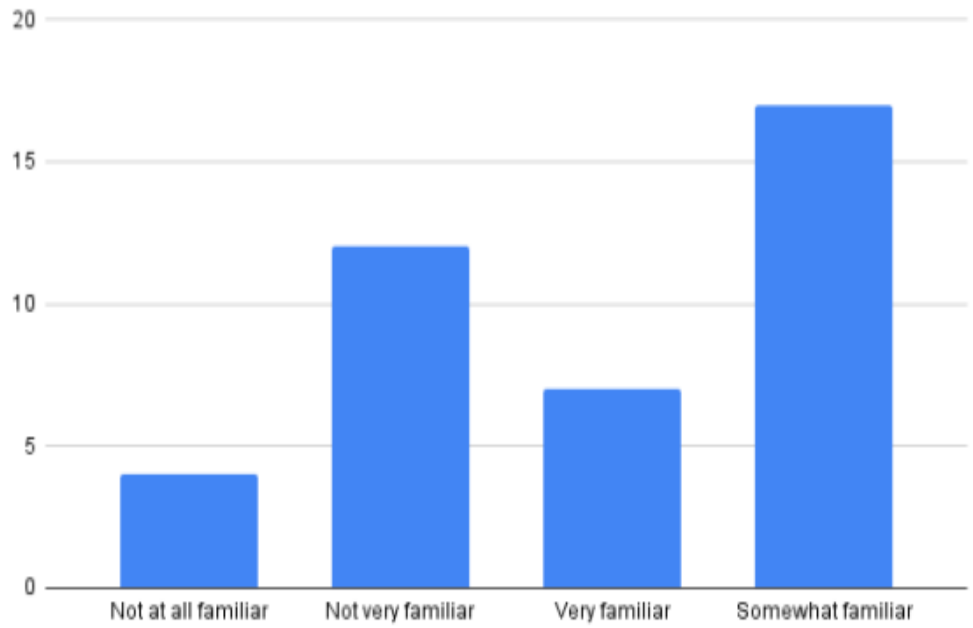
Sampling: Non- Probability Convenient sampling

Sample Size: Respondents: 170 respondents filled questionnaire.

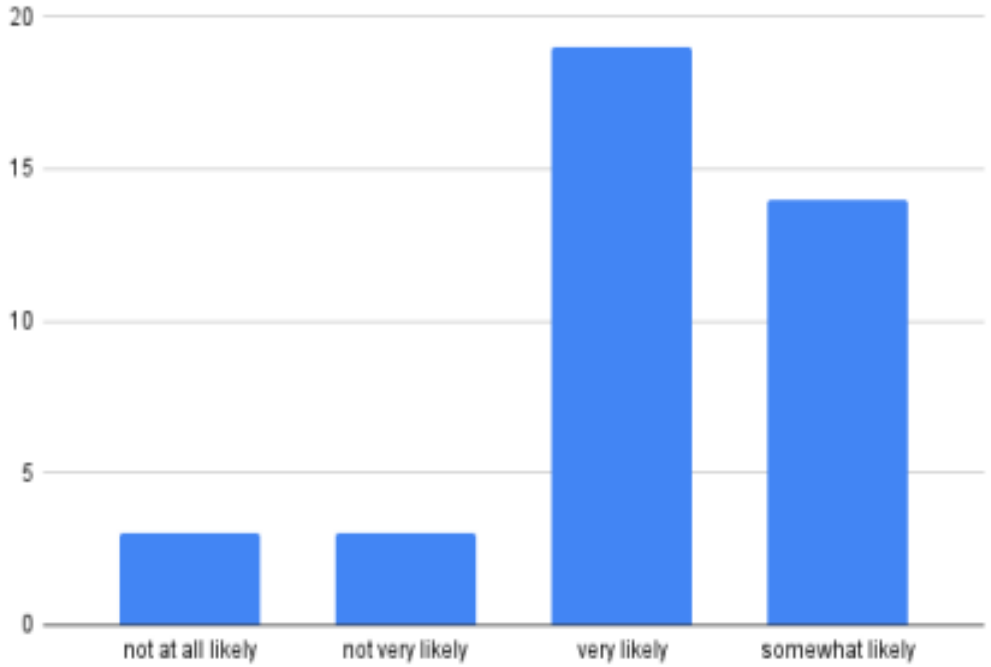
Sample Area- Pan India

Result & discussion

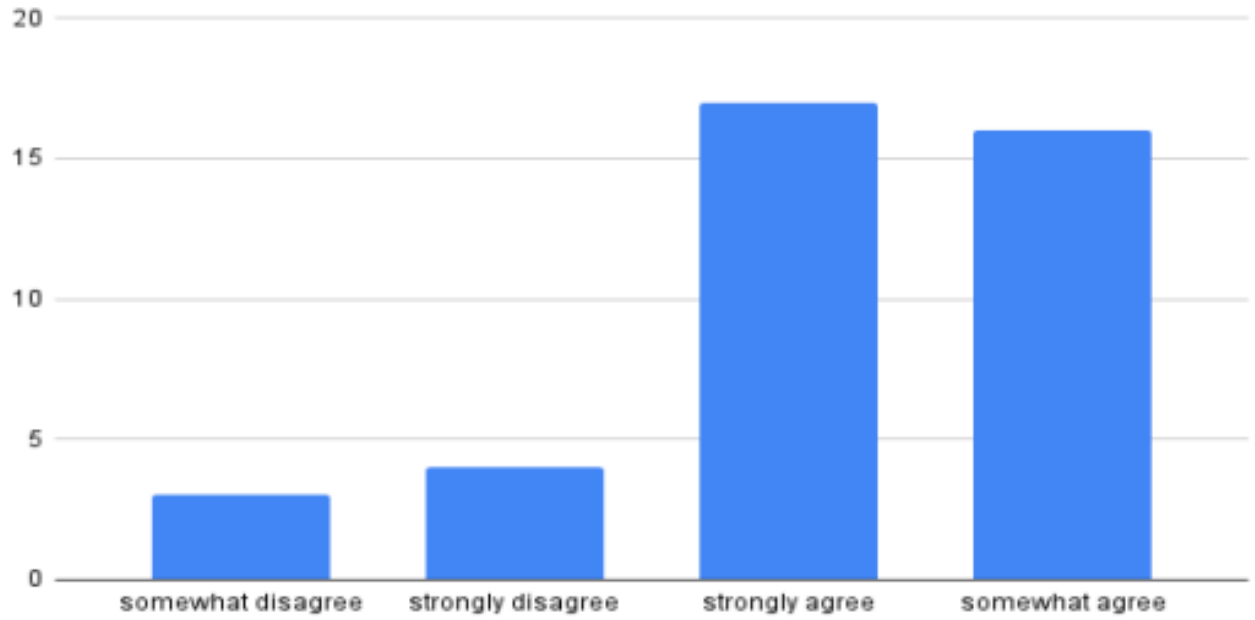
Question 1: How well the patients and healthcare professionals are familiar with the application of AI in healthcare?



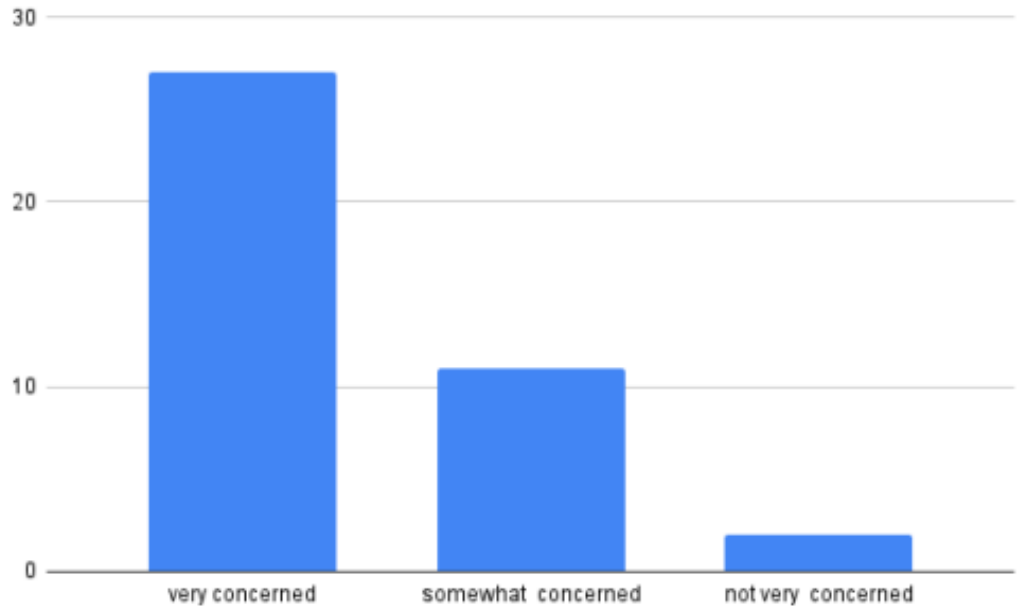
Question 2: will you use healthcare AI application in future?



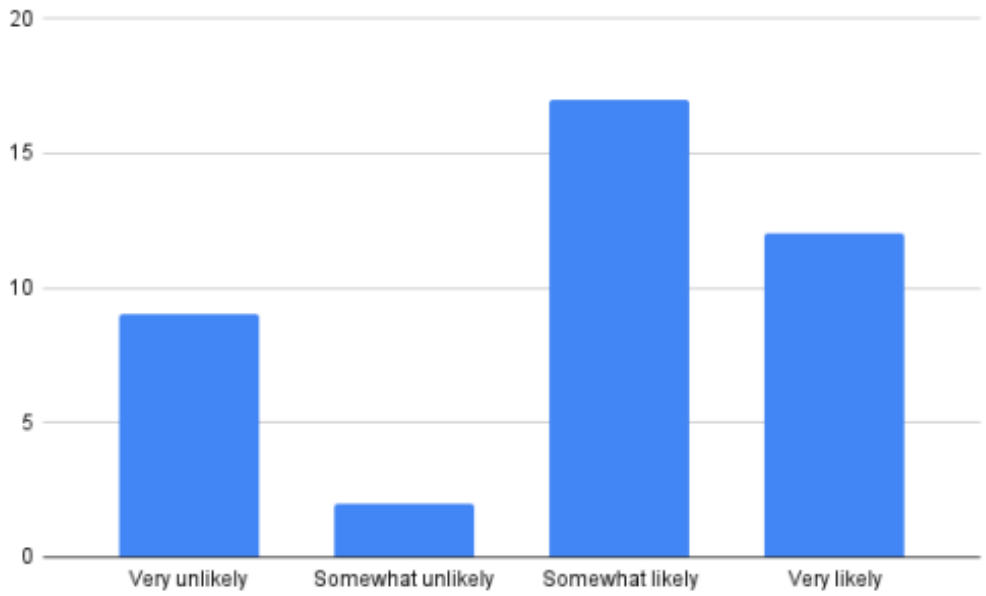
Question 3: Does AI as the potential to improve the patient's outcomes in the healthcare industry?



Question 4: Are everyone in the healthcare industry concern about the privacy and security of your personal healthcare tools & applications?



Question 5: Patients and healthcare professionals trust towards the AI generated treatment recommendation?



Conclusion

- AI is having a substantial impact in fields like diagnosis and treatment, personalised medicine, decision support systems, patient monitoring, and remote care.

- AI has the ability to promote cost-effectiveness and resource optimisation, which will benefit patients as well as healthcare organisations.

- The research described here serves as a starting point for additional investigation and the creation of policies and suggestions that will influence the direction of AI-driven healthcare in the future.

Limitations

- Healthcare data can occasionally be erroneous, missing, and fragmented
- The effectiveness and application of AI algorithms may be impacted by variations in patient demographics, healthcare procedures, infrastructure, demanding additional validation and adaption in various circumstances.
- Concerns about trust, acceptability as sometimes it may be difficult to understand the algorithms of AI.
- Issue of privacy
- Implication is expensive