

SYNOPSIS

TITLE : Exploring the Attitudes and Perceptions of Healthcare Workers Toward Digital Health Technologies

INTRODUCTION: Digital health technologies—such as electronic health records, telemedicine, and AI-assisted tools—are increasingly reshaping modern healthcare delivery. While these innovations offer potential benefits like improved efficiency, access, and patient care, their successful implementation depends largely on the acceptance and readiness of healthcare professionals.

This study aims to explore the attitudes and perceptions of healthcare workers toward digital health technologies. Understanding their views is essential to identifying barriers and opportunities in adopting digital solutions. The findings will support efforts to design effective training, policy, and implementation strategies for digital transformation in healthcare.

RESEARCH QUESTION: What are the attitudes and perceptions of healthcare workers toward the adoption and use of digital health technologies?

OBJECTIVES: • To assess the level of awareness among healthcare workers regarding digital health technologies,

- To explore the attitudes and perceptions of healthcare workers toward the adoption and use of digital technologies
- To examine the factors influencing the acceptance or resistance

STUDY DESIGN : The present study will adopt a **cross-sectional descriptive design** to explore the attitudes and perceptions of healthcare workers toward digital health technologies. Data will be collected at a single point in time using a structured questionnaire designed to capture both quantitative and qualitative insights. The survey will include multiple-choice questions, Likert-scale items, and open-ended responses to assess awareness, attitudes, perceived benefits, and concerns related to digital tools such as electronic health records, telemedicine, and AI-assisted systems. This design is appropriate for obtaining a snapshot of current perceptions and identifying key factors influencing the acceptance or resistance to digital transformation within healthcare settings.

INCLUSION CRITERIA:

- Healthcare professionals currently employed in clinical or administrative roles.

- Involved in patient care or healthcare service delivery (directly or indirectly)

EXCLUSION CRITERIA:

- Individuals not currently working in a healthcare setting.
- Individuals not proficient in the language of the survey.

SAMPLE SIZE:

104 responses were initially collected. After excluding incomplete responses, 100 complete datasets were included in the final analysis.

SAMPLING TECHNIQUE

Convenience sampling method.

DATA COLLECTION TECHNIQUE

The online questionnaire was circulated via email and professional WhatsApp groups. Participants responded anonymously and voluntarily.

DATA COLLECTION PROCEDURE :

- Data for this study will be collected through two primary methods: a structured online survey and a review of existing research literature.
- A self-administered questionnaire will be created using Google Forms and distributed to healthcare professionals through email, messaging platforms, and professional networks.
- The survey will include both closed-ended (Likert scale, multiple choice) and open-ended questions to gather insights on attitudes, awareness, and perceived barriers related to digital health technologies.
- In addition to primary data, secondary data will be collected from published research papers, journal articles, and reports relevant to digital transformation in healthcare.
- Keywords like *"digital transformation adoption," "healthcare worker perception," "telemedicine,"* and *"technology in healthcare"* will guide the literature search.

DATA ANALYSIS PLAN:

Data were exported to Microsoft Excel and analyzed with descriptive statistics (percentages, frequencies). Graphical display (bar charts, pie charts, radar charts) was employed to visually summarize:

- Cross-departmental differences
- Prevalence of barriers
- Trends in awareness and attitudes

Ethical Considerations:

- As the study involves secondary data analysis, there are minimal ethical concerns.
- Proper citations and acknowledgments will be provided for all data sources to maintain academic integrity