



A SYSTEMATIC REVIEW OF HEALTHCARE PROFESSIONALS' VIEWS ON ELECTRONIC MEDICAL RECORDS

Presented by:
Tejashree Ajit Kanzarkar
Enrollment No.: 1431
MBA Health Management (HM 26)

Guided by:
Dr. Varshu Tanu

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Introduction

The Indian healthcare system needs electronic medical records (EMRs) to

- Improve patient care,
- Upgrade healthcare delivery, and
- Boost efficiency.

Nevertheless, more research is still needed into how India's healthcare professionals view EMR deployment.



Introduction

EMR: EMR stands for **electronic medical records**, which are the digital equivalent of paper records, or charts at a clinician's office.

EMRs typically contain general information such as treatment and medical history about a patient as it is collected by the individual medical practice



Advantages of EMR

EMRs allow doctors to:

- Monitor data throughout the time
- It is simple to determine whether people require preventative screens or checks.
- Check the accuracy of the patient's blood pressure, vaccination results
- Observe and enhance the practice's overall level of patient care

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RESEARCH QUESTION

What are the factors that influence healthcare professionals' perceptions of and experiences with EMRs in India?



Objective

- To identify the factors that affect the adoption and implementation of EMRs among healthcare professionals in India
- To understand the challenges healthcare professionals face in adopting EMRs and explore potential solutions to these challenges

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Methodology

Research Design- A Systematic review was done for this study

Study Setting- The study was conducted online. The study is based on secondary research. A comprehensive search of databases (Google Scholar, PubMed, Scopus, Elsevier) was conducted with the keywords: EMR, EHR, India, and Perception.

Sample size- A total of 100 articles were found as per the selection criteria. Selection criteria included articles that highlighted the Indian situation of adaptivity, usability, and perception of electronic health/medical records in India.

Inclusion criteria

- The article had to focus on EMRs in India
- The study population must have been healthcare professionals,
- The study design should include original and primary research

Exclusion criteria

- Articles that are not relevant to the objective
- Articles that are commentaries, editorials, or book chapters
- Articles that were conducted on regions outside India.



Results



13 articles met the inclusion criteria out of 100 articles, that were further analyzed.
Following are the results concluded:

- The attitude of healthcare professionals towards EMRs can also influence the adoption rate. Healthcare professionals with a positive attitude towards technology can positively impact EMR adoption, while a negative attitude can hinder the adoption of EMRs.
- Overall, healthcare professionals in India hold a positive attitude toward EMRs and recognize the benefits they offer

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- The knowledge gaps and reluctance to EMR is found due to the following reasons:
 - Concerns regarding job security
 - Need for further training
 - Need to address a number of issues, including high implementation costs, a lack of IT infrastructure, and inadequate governance frameworks, which might act as substantial roadblocks to the adoption of EMR.



Barriers

- Expenses associated with establishing and maintaining an EMR
- Lack of information
- Lack of public awareness of EMR's advantages
- Insufficient training
- Worries about data security data and privacy

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Limitations of the study

- The study was limited to looking at how Indian healthcare professionals perceived electronic medical records. The study did not examine other stakeholders' perspectives, such as those of patients, policymakers, and healthcare organizations.
- Studies that were carried out and published in Indian languages may not have been included
- Studies conducted before recent improvements in EMR may be out-of-date in terms of the technology they covered



Conclusion



- The use of EMR systems has the potential to improve patient care, lower prescription error rates, and save a considerable amount of money and time in the Indian healthcare system.
- Despite the great potential benefits of EMRs, the study's findings show that adoption and successful use of them in India's healthcare system face major obstacles.
- The study's key finding is that healthcare professionals are reluctant to utilize electronic medical records because they lack formal training and skill in using these technical tools.
- These issues can be resolved through enhanced technical infrastructure and proper training.



Recommendations



- Investing in Training and Education Programs and Raise Awareness
- Prioritize Technical Infrastructure Improvements
- Identify and address EMR system adoption and implementation resistance among healthcare workers
- Prioritize EMR security
- Conduct Further Research

Thank you!