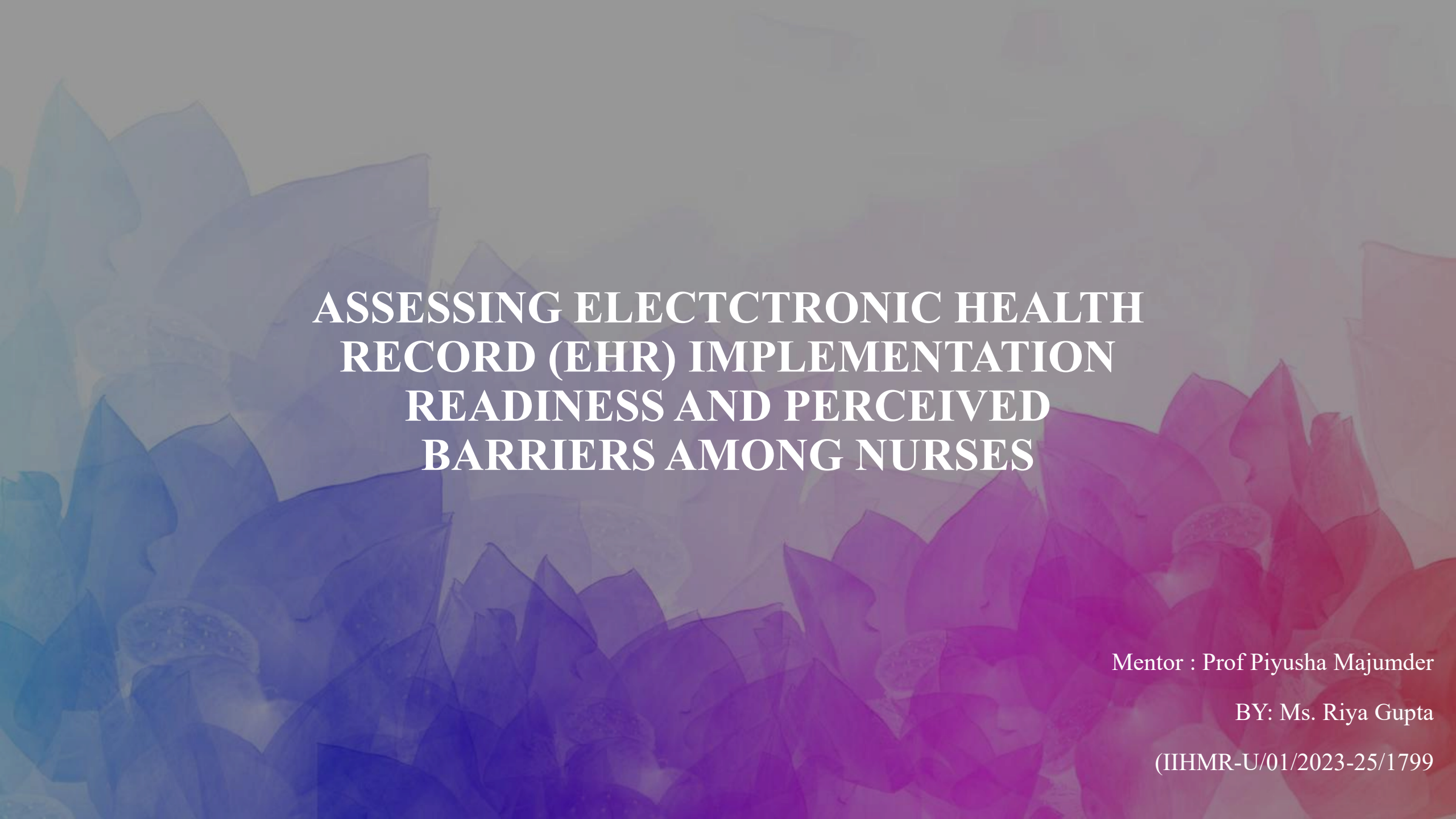




ASSESSING ELECTCTRONIC HEALTH RECORD (EHR) IMPLEMENTATION READINESS AND PERCEIVED BARRIERS AMONG NURSES

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About KareXpert



KareXpert Technologies Pvt. Ltd. is a pioneering **Digital Health Platform-as-a-Service (PaaS)** company that is transforming how healthcare is delivered in India. Backed by **Reliance Jio**, KareXpert offers an **AI-enabled, cloud-based hospital operating system (HOS)** designed to support end-to-end hospital digitalization without the need for coding, large infrastructure, or long implementation cycles.

- **Core Objective:**

KareXpert's primary goal is to enable hospitals, clinics, and healthcare networks to transition from traditional, paper-based or fragmented IT systems to a **fully integrated digital hospital environment**, improving **patient experience, clinical efficiency, and operational transparency**.



Vision

To transform healthcare by making it **digital, accessible, and patient-centric**, enabling hospitals and clinics to deliver efficient, technology-driven care through a unified digital platform.

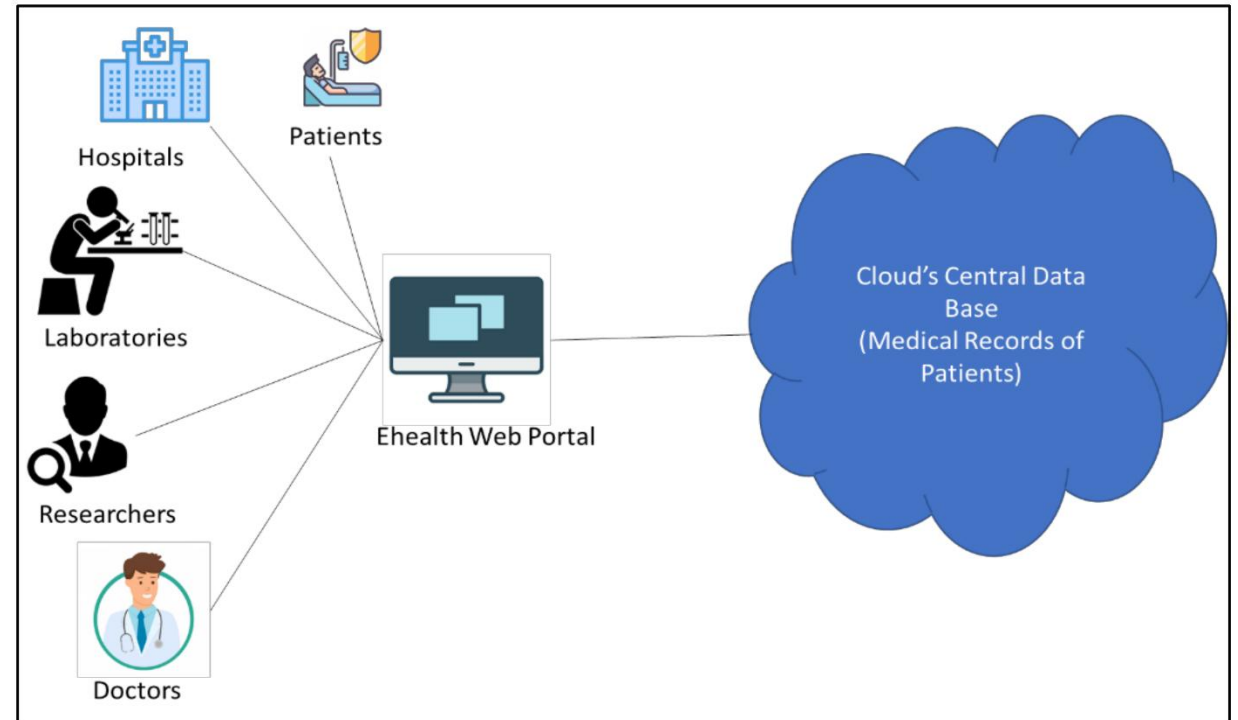


Mission

To **empower healthcare providers** with intelligent, cloud-based tools that enhance care quality, streamline operations, and improve patient outcomes – supporting the overall **welfare of the healthcare community**.

INTRODUCTION

Electronic Health Records (EHRs) are essential for digital transformation in healthcare, improving documentation, coordination, and patient safety. However, successful implementation depends largely on the **readiness of nursing staff**, who are primary users of these systems. This study focuses on assessing **EHR implementation readiness and perceived barriers among nurses** at Dr. Vasant Rao Pawar Medical College, Nashik. Understanding their preparedness and challenges is crucial to ensure effective adoption and improved care delivery.



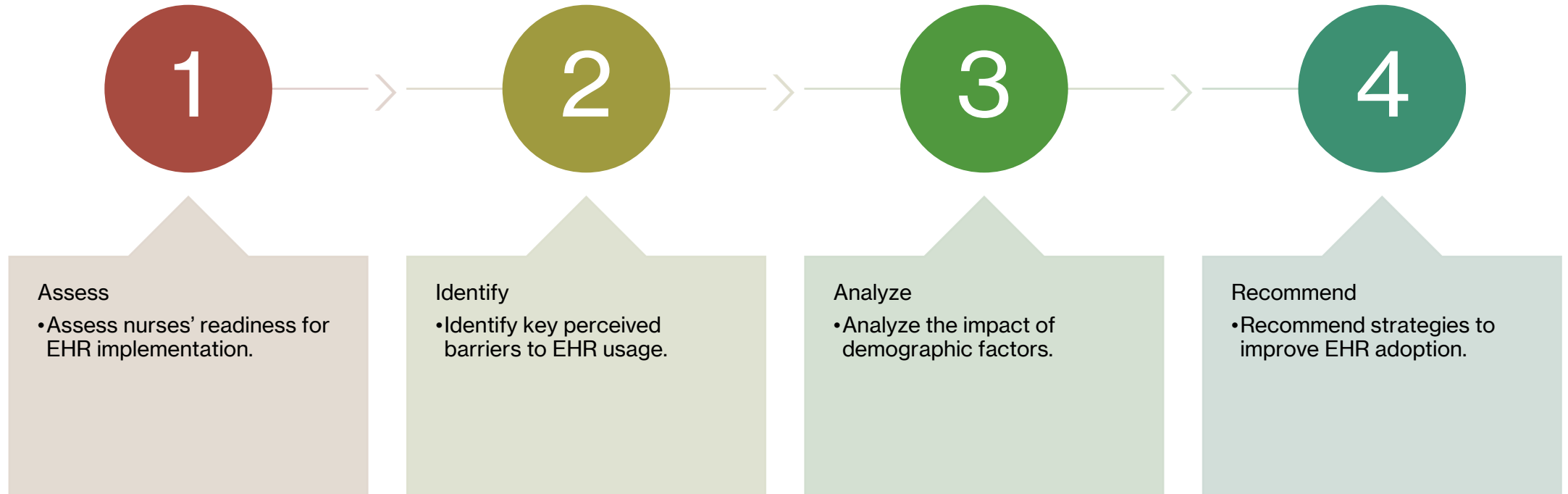
Problem Statement

- Despite the benefits, EHR implementation faces **resistance** from nursing staff.

Barriers include:

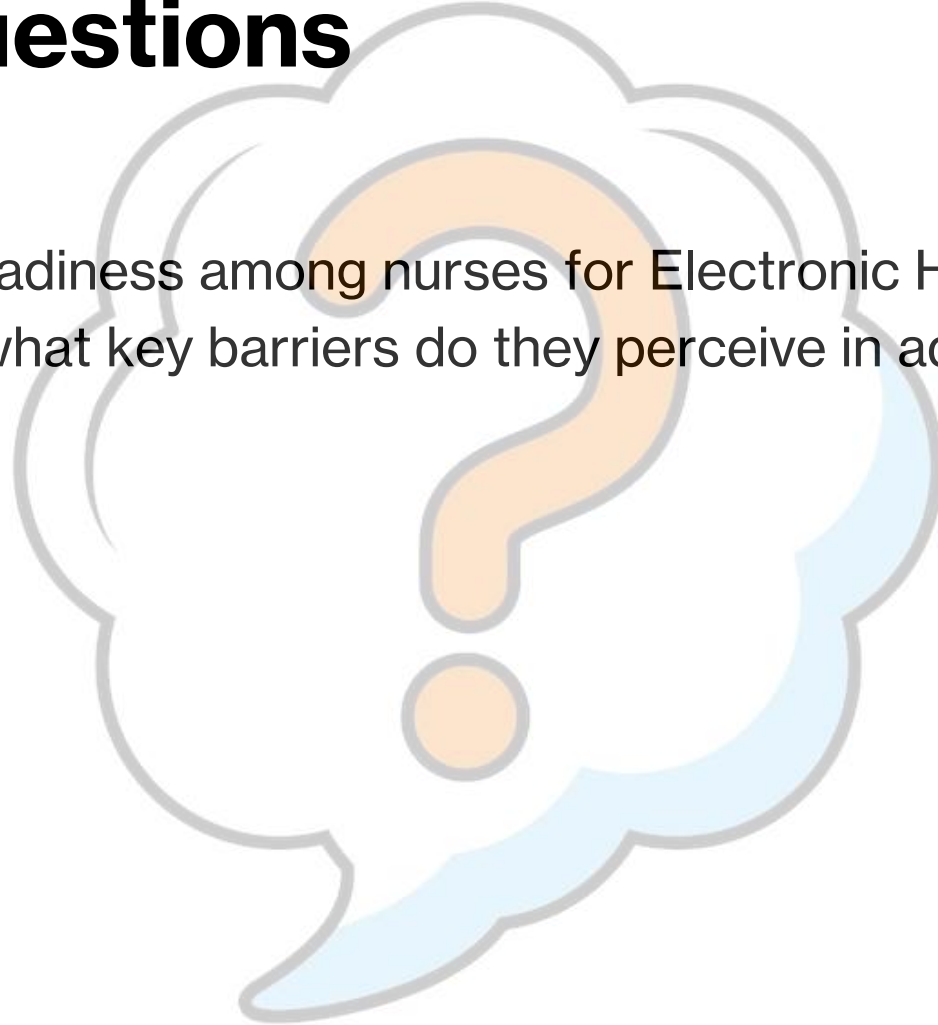
- Lack of technical training
- Increased documentation workload
- Poor system usability
- Limited involvement in planning

Objectives



Research Questions

- What is the level of readiness among nurses for Electronic Health Record (EHR) implementation, and what key barriers do they perceive in adopting the system effectively?"



Significance of the Study



Nurses are key users of EHRs but often overlooked.



Understanding their challenges can:

Improve adoption success

Enhance care quality

Inform policy and training strategies

Methodology



Design: Mixed-method
(Quantitative +
Qualitative)



Setting: Dr. Vasant
Rao Pawar Medical
College, Nashik



Sample: 50 nurses

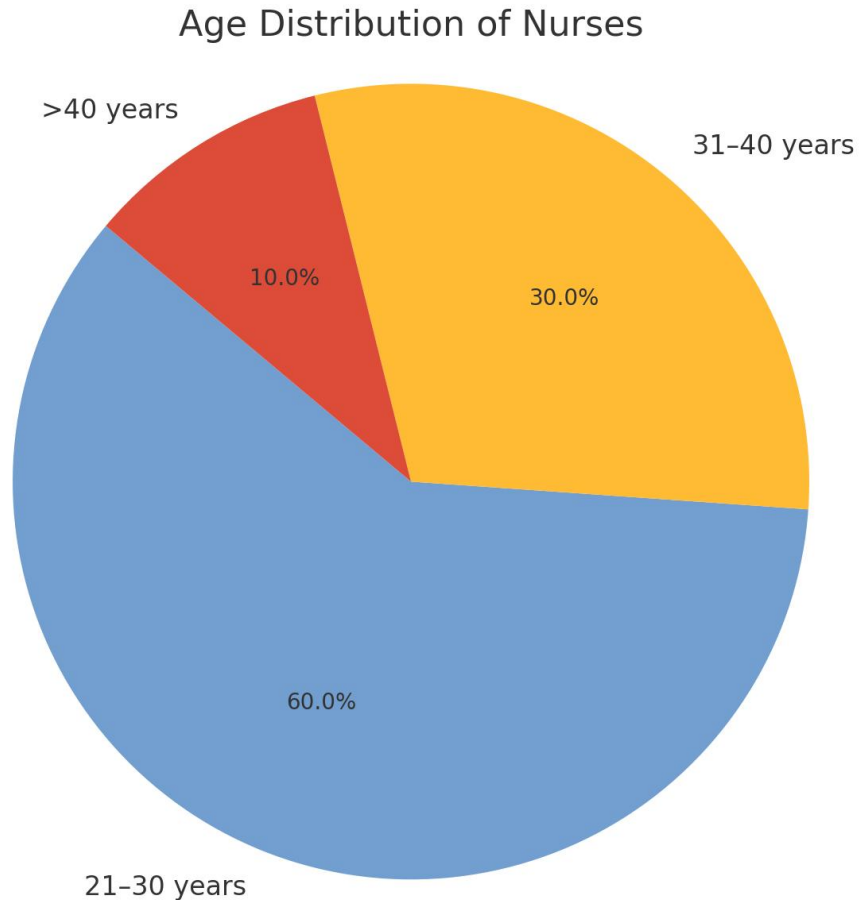


Data Tools:
Questionnaire + Semi-
structured interviews



Analysis: Descriptive
statistics, correlation,
thematic analysis

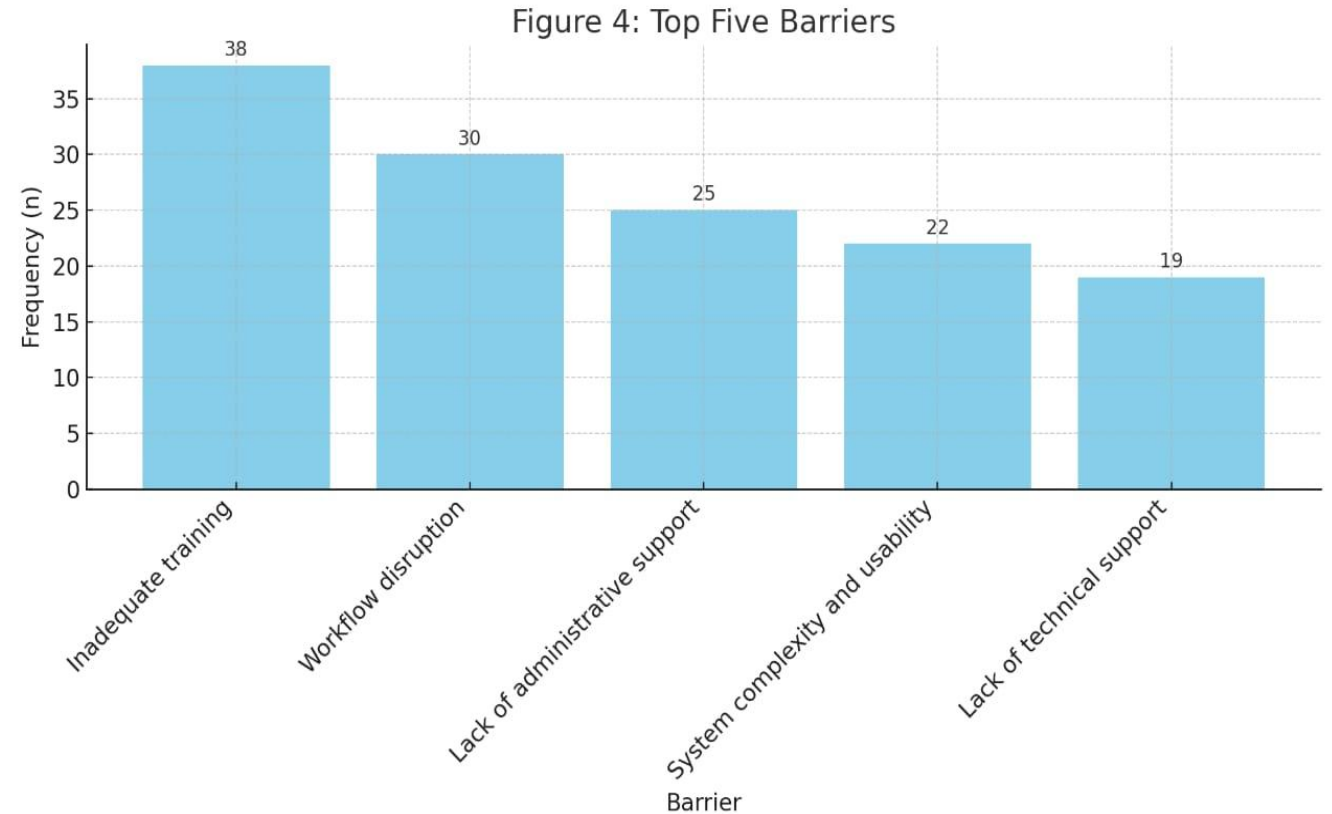
Demographic Profile



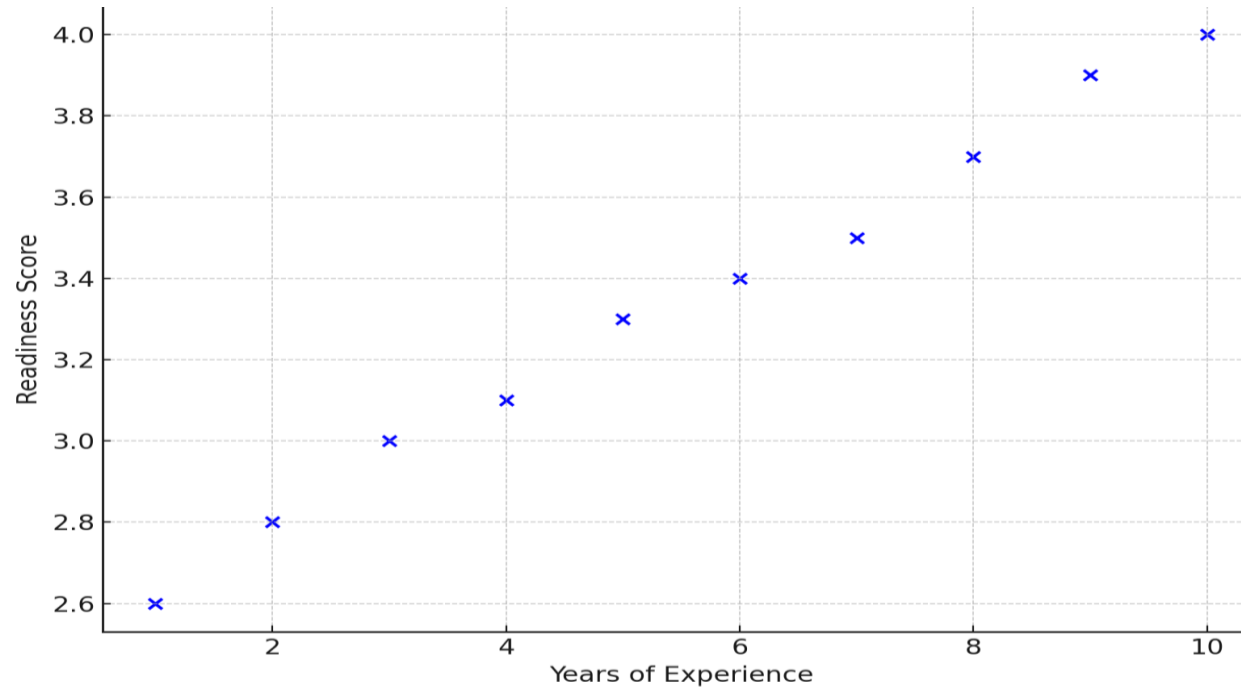
- **Age:**
 - 60% aged 21–30
 - 30% aged 31–40
 - 10% aged above 40
- **Gender:** 84% female, 16% male
- **Experience:**
 - <1 year: 16%
 - 1–5 years: 44%
 - 5 years: 40%

Key Barriers Identified

- Inadequate training – 76%
- Workflow disruption – 60%
- Lack of admin support – 50%
- System usability issues – 44%
- Lack of tech support – 38%



Correlation with Demographics



Age: Weak, negative correlation ($r = -0.12$)

Experience: Moderate positive correlation ($r = +0.24$, $p = 0.04$)

Previous IT exposure: Strong positive correlation ($r = +0.41$, $p = 0.001$)

Qualitative Themes

- **Theme 1:** Need for hands-on training
"We need more hands-on training."
- **Theme 2:** Lack of inclusion in planning
"No one asked for our input."
- **Theme 3:** System inefficiency
"Too many clicks and delays."

EHR Barriers from Nurse Perspectives



RESULT & DISCUSSION

RESULTS:

- 24% High, 56% Moderate, 20% Low readiness

- Barriers: training gaps, workflow disruption, low admin support

- Readiness positively correlated with IT exposure & experience

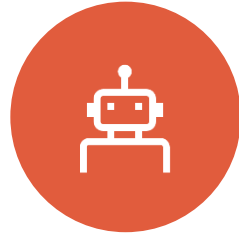
Discussion:

Technological literacy and involvement in planning improve readiness. Training and admin support can reduce resistance and improve adoption.

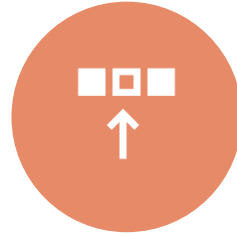
Recommendations



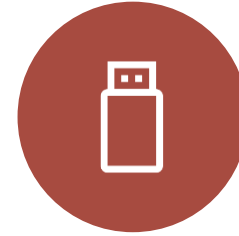
Hands-on and role-specific training programs



Involve nurses in system design and decision-making



Simplify system interfaces for better usability



Set up peer-support and feedback mechanisms



Administrative and IT backing during and after rollout

Implications



Practice:

Better nurse engagement
Reduced workflow disruptions



Policy:

Standardized training
Mandatory nurse participation in digital transitions

Limitations

Single-site study

Small sample size (n=50)

Cross-sectional design – no long-term tracking

Self-reported data – possible response bias

Conclusion

The study revealed that while a majority of nurses demonstrated moderate readiness for EHR implementation, significant barriers such as inadequate training, system complexity, workflow disruption, and limited administrative support hinder adoption. Nurses with more clinical experience and prior IT exposure showed higher readiness levels, highlighting the importance of background and digital literacy in successful EHR adoption. Furthermore, qualitative insights emphasized nurses' need for hands-on training, involvement in system planning, and simplified, user-friendly interfaces. Overall, the findings underline that technical readiness must be matched with organizational support and inclusive planning to ensure a smooth transition to digital health systems. Addressing these factors can enhance EHR adoption, improve care delivery, and strengthen the foundation of digital transformation in healthcare.

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Thank
You