SYNOPSIS

TITLE: Impact of EMR Implementation on Hospital Workflows, Staff Adoption, and Training Usefulness.

INTRODUCTION: Electronic Medical Records (EMR) systems are transforming healthcare delivery by enhancing data management, improving patient care, and streamlining workflows. However, EMR adoption often faces challenges such as staff resistance, operational disruptions, and workflow inefficiencies. This study aims to evaluate the impact of EMR implementation on hospital workflows, identify key challenges faced during and after its deployment, and assess staff adoption and training usefulness. Understanding these aspects will help improve EMR integration strategies and ensure smoother transitions for healthcare facilities.

RESEARCH QUESTION:

1. How does EMR implementation impact hospital on workflows?
2. How useful was the staff training in ensuring successful adoption of EMR implementation?
3. What were the key challenges faced during EMR implementation?

OBJECTIVES:

1. To analyze the impact of EMR implementation on hospital workflows.
2. To identify key challenges faced during and after EMR implementation.
3. To assess the usefulness of staff training in ensuring successful implementation of EMR
4. To assess the level of staff adoption and satisfaction with use of EMR.

HYPOTHESIS:

1. EMR implementation significantly impacts hospital workflows by altering process efficiency, patient data management, and interdepartmental coordination.
2. Effective staff training plays a crucial role in ensuring the successful adoption of EMR by improving user proficiency and reducing resistance to change.
3. Key challenges during EMR implementation include technical issues, user resistance, and workflow disruptions, which affect the overall efficiency of hospital operations.

MATERIAL AND METHODS:

STUDY DESIGN: Descriptive observational study.

SETTING: Fortis Hospital OPD Department.

STUDY POPULATION:

Inclusion Criteria:

- Healthcare professionals directly involved in using the EMR system (e.g., doctors, nurses, and administrative staff).
- Staff members who participated in EMR training sessions.

Exclusion Criteria:

- Staff who have minimal or no interaction with the EMR system.
- Temporary staff or interns with limited exposure to EMR processes.

STUDY TOOLS:

- Structured questionnaires for staff feedback.
- EMR data.
- Interviews with key stakeholders (e.g., doctors).

DURATION OF STUDY: 2 months

SAMPLE SIZE: Approximately 30-40 staff members across different departments in OPD involved in EMR usage.

SAMPLING TECHNIQUE: Convenience sampling from staff actively involved in EMR workflows.

DATA COLLECTION PROCEDURE:

- Conduct interviews with staff to understand workflow changes and challenges.
- Distribute structured questionnaires to assess user satisfaction and training effectiveness.
- Observe hospital workflows pre- and post-EMR implementation for process changes.

OPERATIONAL DEFINITIONS:

- **Workflow Efficiency:** Time spent on key processes like patient registration, nursing assessment, clinician's documentation including prescription filling and investigations.
- **User Satisfaction:** Evaluated through questionnaire responses on EMR usability, interface design, and system reliability.

DATA ANALYSIS PLAN:

- Descriptive statistics (percentages, mean, and standard deviation) for analyzing questionnaire data.

- Simple tabular comparisons for workflow efficiency assessment before and after EMR implementation.

ETHICAL CONSIDERATIONS:

- Informed consent will be obtained from all participants.
- Participant data will be anonymized to ensure privacy and confidentiality.

IMPLICATIONS OF RESEARCH: The study will provide insights into improving EMR implementation strategies by identifying key challenges and highlighting the importance of effective training. The findings will help Fortis Hospital and similar institutions refine their EMR deployment processes, ensuring minimal disruptions and better staff engagement.

REFERENCES:

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