

SYNOPSIS

1. Title

Assessing Patient Safety in MRI Procedures Using CAHO-Validated PREM Tool

2. Introduction

MRI is a non-invasive diagnostic modality, but it poses safety risks related to magnetic fields, contrast agents, and patient anxiety. Patient-Reported Experience Measures (PREMs) serve as vital tools to evaluate patient experiences and uncover gaps in communication, consent, and procedural clarity. Using CAHO-validated PREM tools ensures standardized, quality-focused insights into MRI safety procedures.

3. Research Question

How effectively do CAHO-validated PREM tools assess patient safety and communication during MRI procedures?

4. Objectives

- To Assess patient awareness about MRI procedures.
- To Evaluate communication effectiveness between healthcare providers and patients.
- Ensure informed consent and understanding of safety precautions.
- identify knowledge gaps regarding contrast risks and procedural guidelines.
- Improve patient preparedness and comfort during the MRI process.
- Enhance post-scan understanding and expectations.

5. Hypothesis

H1: Use of CAHO-validated PREM tools can significantly identify safety and communication gaps in MRI procedures, leading to measurable improvements in patient preparedness and satisfaction.

6. Materials and Methods

a. Study Design

Prospective observational study using CAHO-validated PREM questionnaires.

b. Settings

Radiology Department, EHCC Hospital, Jaipur.

c. Study Population

Inclusion Criteria:

- Adults (≥ 18 years) undergoing MRI procedures.
- Patients who provide informed consent.

Exclusion Criteria:

- Emergency cases, Incapacitated Patients, children under the age of 9 years and patients under sedatives.

Study Tools:

CAHO-validated PREM questionnaire.

7. Duration of Study: 2 months

8. Sample Size: 100 patients

9. Sampling Technique

Purposive sampling of patients undergoing MRI during the study period.

10. Data Collection Procedure

Participants will be informed and consented pre-MRI.

PREM tools will be administered post-procedure to assess experiences.

Operational Definitions:

PREM: Patient-Reported Experience Measure; feedback on the experience of care.

MRI Safety: Compliance with procedural protocols, informed consent, and patient comfort.

11. Data Analysis Plan

Descriptive statistics for demographics and response frequencies.

Thematic analysis for qualitative feedback.

Bar charts to represent satisfaction levels and awareness gaps.

12. Ethical Consideration

Informed consent will be obtained from all study participants.

Participants' confidentiality and anonymity will be strictly maintained throughout the study.

Ethical clearance will be obtained from the Institutional Ethics Committee of EHCC Hospital.

13. Implications of Research

Enhances understanding of patient perspectives on MRI safety.

Identifies critical gaps in communication and informed consent.

Provides insights for training radiology staff.

Supports CAHO accreditation and quality improvement initiatives.

14. References

CAHO Guidelines for Patient Experience Measurement

WHO: MRI Safety Manual

ACR Manual on MRI Safety (American College of Radiology)

Institute of Medicine (IOM): Patient-Centred Care Framework

Relevant peer-reviewed articles on PREMs and MRI safety