Synopsis for Dissertation Submitted

The IIHMR University, Jaipur

for the partial fulfilment for the award of the degree of

Master of Business Administration (MBA)

in

Hospital and Health Management

By

Akankhya Jena

2024

SYNOPSIS

"Implementation of Green Healthcare Practices: Reducing Environmental Impact in Hospitals"

INTRODUCTION

Healthcare facilities, while essential for providing care, can have significant environmental impacts due to high energy consumption, waste production, and extensive use of resources. The implementation of green healthcare practices aims to mitigate these impacts by promoting sustainability through energy-efficient technologies, waste reduction strategies, and resource conservation. This study explores the benefits and challenges of adopting environmentally friendly practices in hospitals, focusing on their potential to reduce the environmental footprint of healthcare operations. The relevance of this study is underscored by the increasing global emphasis on sustainability and the healthcare sector's responsibility to contribute to environmental stewardship.

RESEARCH QUESTION

How does the implementation of green healthcare practices in hospitals reduce environmental impact?

OBJECTIVES

1. To identify current environmental practices in selected hospitals.
2. To evaluate the impact of green healthcare initiatives on energy consumption.
3. To assess the effectiveness of waste reduction strategies in hospitals.
4. To measure the environmental benefits of resource conservation practices.
5. To provide recommendations for effective green healthcare practices that can be adopted by hospitals.

HYPOTHESIS

The implementation of green healthcare practices in hospitals significantly reduces environmental impact.

MATERIAL AND METHODS

STUDY DESIGN

A mixed-methods study combining quantitative and qualitative approaches.

Setting

The study will be conducted in multiple hospitals that have recently adopted or are in the process of implementing green healthcare practices.

Study Population

Inclusion Criteria:

- Hospitals that have initiated green healthcare practices.
- Hospital staff involved in implementing and managing green practices.
- Patients receiving care in participating hospitals.
- Participants willing to provide informed consent.

Exclusion Criteria:

- Hospitals that have not considered or implemented any green practices.
- Participants who decline to participate in the study.

Study Tools

- Structured surveys for hospital staff and patients.
- Energy consumption records.
- Interviews with key stakeholders involved in green practice implementation.

Duration of Study

The study will be conducted over a period of three months, from April 2024 to June 2024.

Sample Size

A sample size of 5 hospitals, 50 hospital staff, and 100patients will be included, based on anticipated variability and a confidence level of 95%.

Sampling Technique

Purposive sampling will be used to select hospitals and participants that meet the inclusion criteria.

Data Collection Procedure

- Quantitative data will be collected through surveys and analysis of energy and waste records.
- Qualitative data will be gathered through interviews with staff and patients.
- Environmental benefits will be assessed using pre- and post-implementation data on energy use and waste production.

Operational Definitions

- Green Healthcare Practices: Environmentally sustainable practices aimed at reducing energy consumption, waste, and resource use in healthcare settings.
- Environmental Impact: The effect of hospital operations on the natural environment, measured through energy use, waste generation, and resource conservation.

- Energy Consumption: The amount of energy used by the hospital, measured in kilowatt-hours (kWh).

DATA ANALYSIS PLAN

Quantitative data will assess changes in environmental impact pre- and post-implementation of green practices Descriptive statistics will summarize energy consumption, waste production, and resource conservation metrics. Qualitative data from interviews will be analysed thematically to identify key factors contributing to successful green practice implementation.

ETHICAL CONSIDERATIONS

Informed consent will be obtained from all study participants. The study will ensure confidentiality and privacy of data, adhering to ethical standards and regulations

IMPLICATIONS OF RESEARCH

This research aims to provide valuable insights into the benefits of green healthcare practices, demonstrating their potential to reduce the environmental impact of hospital operations. The findings can inform hospital administrators, policymakers, and healthcare professionals, promoting the adoption of sustainable practices across the healthcare sector, ultimately contributing to environmental preservation and improved public health outcomes.

REFERENCES

1. Bosch, S., & Pearce, A. R. (2003). Sustainability in Public Buildings: The Role of Green Building Rating Systems in Healthcare Facilities.
2. Chow, H. K. H., & Wang, W. Y. C. (2016). Exploring the Benefits and Challenges of Green Hospitals in China: A Case Study of a Tertiary Hospital.
3. Rashid, M., & Zimring, C. (2008). A Review of the Empirical Literature on the Relationships Between Indoor Environment and Stress in Healthcare and Office Settings: Problems and Prospects of Sharing Evidence.
4. James, J. P., & Karmarkar, S. (2014). Implementation of Green Building Design in a Hospital in Mumbai, India: A Case Study.
5. Kumar, R., & Sharma, S. (2017). Green Hospitals in India: An Overview and Case Study.
6. Houghton, A., & Macintyre, S. (2012). The Scottish Healthcare Environment: Exploring the Contribution of Green Hospitals to Sustainable Development.
7. Singh, R., & Bhattacharya, J. (2018). Energy Efficiency Measures in a Green Hospital: A Case Study from New Delhi.
8. Kothari, A., & Gupta, P. (2015). Greening Hospitals: A Case Study of Environmental Initiatives at a Healthcare Facility in Rajasthan, India.
9. Larsson, N., & Bagheri, M. (2007). A Comparative Study of Energy Performance in LEED and Non-LEED Hospitals.

10. Jain, N., & Saha, P. (2019). Reducing the Carbon Footprint of Healthcare Facilities: A Case Study from a Green Hospital in Bangalore, India.