

SYNOPSIS

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TITLE: Enhancing Maternity Care: On Spot Lab Home Sample Collection Conversion in a Maternity Hospital

Introduction

Maternity care is crucial for ensuring the well-being of both mother and child during pregnancy, childbirth, and the postpartum period. Timely and accurate diagnostic tests play a pivotal role in managing maternal health. The introduction of on spot home sample collection services in maternity hospitals aims to streamline healthcare delivery by providing convenient access to diagnostic tests for pregnant women and new mothers. This study explores the implementation and impact of this service, emphasizing its potential to improve patient satisfaction, accessibility to healthcare services, and overall maternal health outcomes.

Research Question

What are the feasibility and effectiveness of implementing on spot home sample collection services in a maternity hospital setting?

Objectives

1. To assess patient satisfaction with on spot home sample collection services.
2. To evaluate the accessibility of diagnostic tests for maternity patients through home sample collection.
3. To determine the impact of on spot home sample collection on turnaround times for diagnostic results in maternity care.

Hypothesis

Implementation of on spot home sample collection services will lead to increased patient satisfaction, improved accessibility to necessary diagnostic tests, and reduced turnaround times for diagnostic results in maternity care settings.

Material and Methods

- **Study Design:** This study will employ a prospective observational study design.
- **Setting:** The study will be conducted at Cloudnine hospital , a super speciality care maternity hospital with a high volume of maternity patients.
- **Study Population:**
 - **Inclusion Criteria:** Pregnant women and new mothers visiting the maternity hospital.
 - **Exclusion Criteria:** Patients unwilling to participate in the study.
- **Study Tools:** Structured questionnaires for patient surveys, interview guides for qualitative data collection, and diagnostic test kits as required.
- **Duration of Study:** The study will be conducted over a period of 3 months.
- **Sample Size:** A sample size of 200 maternity patients will be included, using convenient sampling due to accessibility and logistical constraints.
- **Data Collection Procedure:** Data will be collected through surveys administered to patients after home sample collection visits and through interviews with healthcare providers. Diagnostic test results and patient feedback will also be documented.
- **Operational Definitions:** Patient satisfaction will be measured by responses on a Likert scale (1-5), accessibility will be assessed based on the time taken from test request to sample collection, and turnaround time will be defined as the interval from sample collection to delivery of test results.

Data Analysis Plan

Data will be analysed using SPSS version 25. Descriptive statistics will be used to summarize patient demographics, satisfaction levels, and turnaround times. Inferential statistics such as t-tests or chi-square tests will be employed to compare variables of interest.

Ethical Considerations

Informed consent will be obtained from all participants. Measures will be taken to ensure data security, privacy, and confidentiality of patient information. The study will adhere to ethical guidelines.

Implications of Research

This research is expected to contribute valuable insights into optimizing maternity healthcare services by integrating on spot home sample collection. Positive outcomes could lead to enhanced patient experience, improved maternal health monitoring, and potentially better health outcomes for mothers and babies.

References

- Royal College of Obstetricians and Gynaecologists. Information for you: Routine blood tests in pregnancy. RCOG; 2019.
- Guest G, Bunce A, Johnson L. How many interviews are enough? An experiment with data saturation and variability. *Field Methods*. 2006;18(1):59-82.