

**1. TITLE: Trend Analysis of New Registrations and Deliveries from December to May at Cloudnine Hospital, Bangalore: A Study on Dropout Percentage**

**2. INTRODUCTION:**

Antenatal care is an essential aspect of maternal health services, with OPD registrations serving as the initial point of contact. However, not all registered cases convert into deliveries at the hospital. Understanding this dropout trend is crucial for improving patient retention, service delivery, and operational planning. This study aims to analyze the trend of new OPD registrations and deliveries over six months and identify reasons for dropouts using specific parameters such as Booked cases, un-booked cases, deliveries at other facilities, deliveries at native etc.

**3. RESEARCH QUESTION:** What are the trends and reasons behind dropouts among new antenatal registrations at Cloudnine Hospital, Bangalore, from December to May?

**4. OBJECTIVES:**

- To analyze the trend of new antenatal registrations and deliveries from December to May.
- To determine the dropout percentage based on defined parameters.
- To identify the most common reasons for patients not delivering at Cloudnine Hospital.
- To provide actionable insights for reducing dropouts and improving retention.

**5. HYPOTHESIS:** There is a significant difference in the dropout rates of antenatal cases based on categorized reasons.

**6. MATERIAL AND METHODS:**

- **STUDY DESIGN:** Descriptive and retrospective study.
- **SETTING:** Cloudnine hospital, Bangalore.

- **STUDY POPULATION**

- **Inclusion criteria:**

- 1. Pregnant women with antenatal registration during the study period.
  - 2. Cases with complete registration data and expected delivery dates (EDD)

- **Exclusion criteria:**

- 1. Non- pregnant patients (Gynaec/ MTP)
  - 2. Other department patients.
  - 3. Cases with incomplete registration data and expected delivery dates (EDD)

- **Study tools:**

- 1. -Hospital Management Information System (HMIS)
  - 2. Excel database
  - 3. Follow-up call records (for 'no response' cases)

- **DURATION OF STUDY:** 3 months

- **SAMPLE SIZE:** All antenatal registrations during the study period.

- **SAMPLING TECHNIQUE:** Total Enumeration sampling.

- **DATA COLLECTION PROCEDURE:**

- 1. Going to deliver at native place
  - 2. Second Opinion
  - 3. Going to deliver at another hospital
  - 4. No response from patient.

- **OPERATIONAL DEFINITIONS:**

- 1. Antenatal Registration:

- The initial outpatient registration of a pregnant woman in the obstetrics department of Cloudnine Hospital, recorded with her Expected Date of Delivery (EDD).

- 2. Dropout:

- Any antenatal registered patient with an EDD during the study period who did not deliver at Cloudnine Hospital.

3. Native Place Delivery:

A dropout case where the patient chooses to return to her hometown or maternal residence for childbirth due to cultural or familial preferences.

4. Other Hospital Delivery:

A dropout case where the patient delivers in a different non-Cloudnine healthcare facility.

5. No Response from Patient:

Cases where the hospital was unable to confirm delivery details after multiple follow up attempts via phone or CRM system due to non-responsiveness.

6. Second opinion- Cases where the patients have registered but not sure whether they will do the delivery at the registered center.

**7. DATA ANALYSIS PLAN:**

Data will be entered and analyzed using Microsoft Excel. Descriptive statistics (counts, percentages) will be used to analyze trends. Bar graphs and pie charts will be used to visualize dropout reasons.

**8. ETHICAL CONSIDERATIONS:**

1. Data confidentiality will be maintained with no personal identifiers used.
2. Permission will be obtained from the hospital administration for use of patient records.
3. The study is for academic purposes only.

**9. IMPLICATIONS OF RESEARCH:**

This study will help identify key reasons behind patient dropouts in antenatal services, enabling targeted interventions to improve retention and increase institutional deliveries at Cloudnine Hospital.

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