



OBJECTIVES:

METHODOLOGY:

“A STUDY ON REASONS FOR CANCELLATION OF SCHEDULED CASES IN OPERATION THEATRE COMPLEX OF A TERTIARY CARE HOSPITAL”



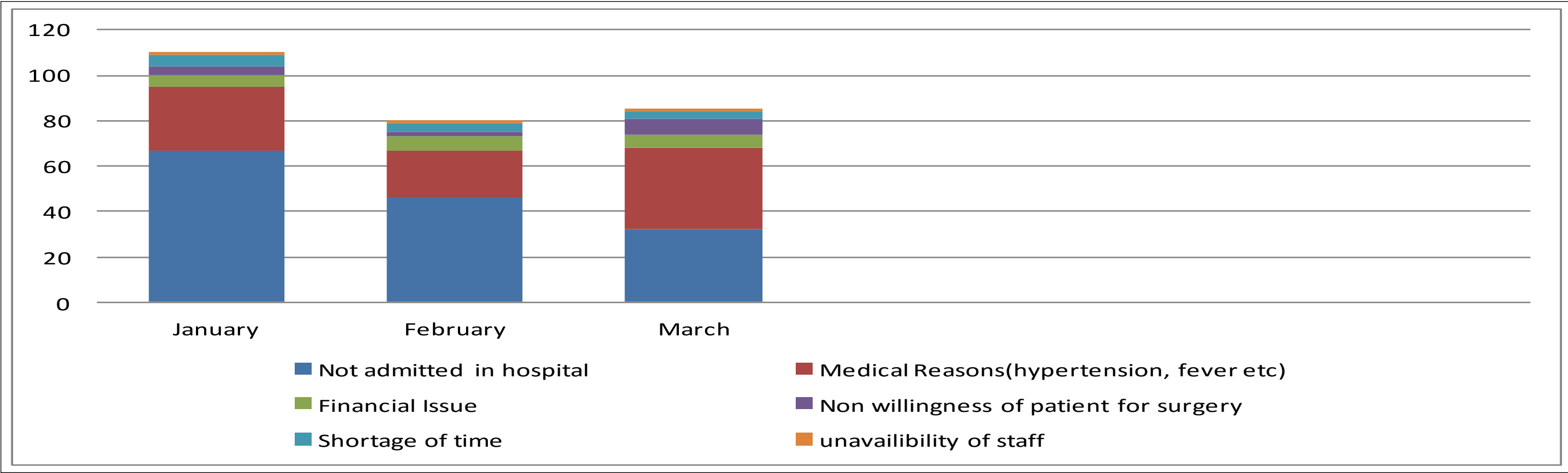
- 1.To assess the reasons for cancellation of scheduled OT cases
- 2.To determine the average utilization hours of Operation Theatres per working days

Study Type : Interventional Study  
Study Duration : JANUARY 2015 to MAY 2015  
Study Area : Muzumdar Shaw Medical Centre , Narayana Health City, Bangalore  
Target Population : All patients scheduled to undergo elective surgical procedures  
Data collected from the Operation Theatre (OT) list such as OT Cancellation list, OT Utilization hours list, Total cases done list from (Operation theatre database)  
Pre-Interventional Data Analysis was done in first 3 months (January, February and March) followed by Post-Interventional Data Analysis in next 2 months (April and May)

REASONS FOR OT CANCELLATION

In the Pre-Intervention period i.e. in the month of January, February and March, The total number of scheduled cases cancelled on the day of surgery was 348, resulting in an average of 4.64(348/75 working days) cancellations per day.

When we compare 3 consecutive months (January, February and March) OT cancellation reasons, then the two cancella-tion reasons are highest i.e. Patient not admitted in the hospital and Medical Reasons (hypertension, fever, high sugar etc)



PRE-INTERVENTION DATA ANALYSIS

| Month    | Procedures Performed | Procedures Cancelled | Percentage of Procedures Cancelled       |
|----------|----------------------|----------------------|------------------------------------------|
| January  | 780                  | 131                  | 17%                                      |
| February | 786                  | 112                  | 14%                                      |
| March    | 783                  | 105                  | 13%                                      |
| TOTAL    | 2349                 | 348                  | Percentage of procedures cancelled - 15% |

AVERAGE UTILIZATION HOURS OF 12 OPERATION THEATRES

A total of 4554 patients were scheduled for elective surgical procedures during 5-months study period. The total number of surgical operations performed was 4004 i.e.87.92% (4004/4554).The OT was func-tional for 126 days (Excluding Government Holidays and Sundays i.e., 11 hours per working days) during the study period, resulting in 31.77(4004/126 days) cases per day.

The Average Utilization hours of Operation Theatres per day is

**FORMULA:** *Average Utilization Hours /OT/Day =Total number of Utilized Hours/Number of OT/ Working Days*

In the month of JANUARY - 1843 utilized hours/12 OT/26 Working days = 5.9 hours  
In the month of FEBRUARY - 1819 utilized hours/12 OT/24Working days = 6.31 hours  
In the month of MARCH - 1860 utilized hours/12 OT/25Working days = 6.45 hours  
In the month of APRIL - 1834 utilized hours/12OT/25 Working days = 6.11hours  
In the month of MAY - 1906 utilized hours/12OT/26Working days = 6.10 hours

INTERVENTION

So, To reduce these two cancellation reasons, We had done the following Interventions

A) To avoid cancellations due to not admitted patients,

1.We had done OT Scheduling by collecting One week Prior Advanced Surgery list for planned surgical procedures from each department and followed the patients up to the time of surgery. So that Surgeons can book OT Slots in advance.

2.We had done Advanced OT Booking by providing Advanced OT coupons of Rupees 2000/- to patients at the time of Estimation to avoid last minute cancellation and assurance of patients for surgery

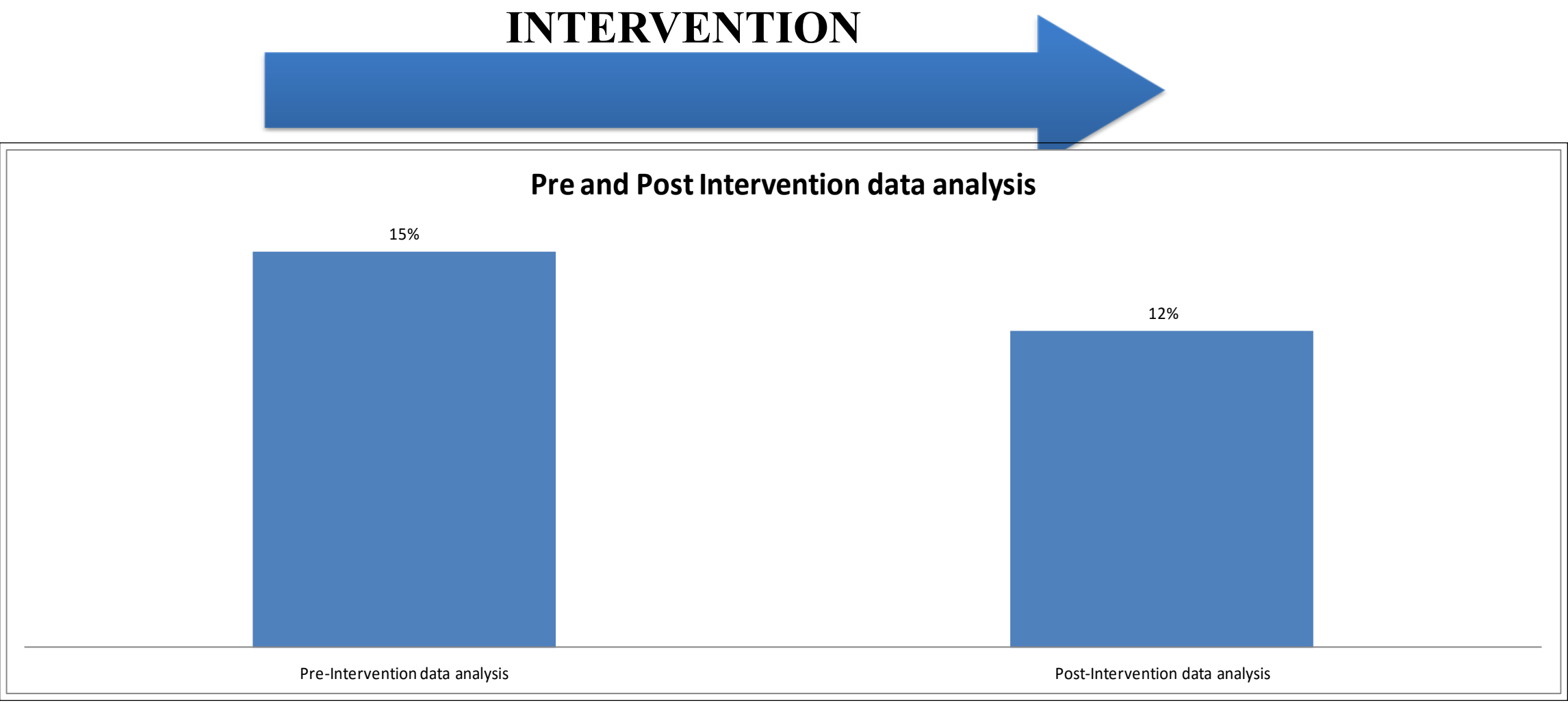
3.We had given 5% discount to those patients who were not admitting for surgery due to Financial problem

B) To avoid cancellations due to medical reasons (hypertension, fever, high sugar etc)

We had arranged a pre-operative visit by anesthesiologist and the surgeon 12hours prior to scheduled surgery.

RESULT

POST-INTERVENTION DATA ANALYSIS



| Month | Procedures Performed | Procedures cancelled | Percentage of the Procedures cancelled   |
|-------|----------------------|----------------------|------------------------------------------|
| April | 775                  | 91                   | 12%                                      |
| May   | 880                  | 111                  | 13%                                      |
| TOTAL | 1655                 | 202                  | Percentage of procedures cancelled - 12% |

RECOMMENDATIONS

- 1. To avoid last minute cancellation due to patient’s last minute doubt and fears,. Efforts should be made to facilitate their compliance with scheduled procedures .
- 2. To avoid shortage of time, Induction of anesthesia while the previous patient is still in the Operating Room has to be analyzed to increase the Operation Room productivity by decreasing the non-operative time.
- 3. At least once in a month meeting to be held between all surgical departments heads and management team to overcome with problem of cancellation of scheduled OT cases and also to discuss OT related issues.
- 4. Audit should be carried out at regular intervals to find out the effective functioning of the Operating Room .

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