

DISSERTATION IN
SONI MANIPAL HOSPITAL, JAIPUR

FEBRUARY – APRIL 2014

*“A STUDY TO IMPROVE THE UTILIZATION OF
OPERATION THEATRE IN THE MULTISPECIALITY
HOSPITAL”*

Submitted By: Akshita Shah

Overview:

- **Internship Report**

- Hospital profile
- Responsibilities assigned by the organization

- **Dissertation Report**

- Introduction
- Rationale
- Aim and objectives
- Study design
- Data collection
- Analysis
- Conclusion
- Recommendations
- Limitations of study

Internship Report

Hospital profile:

- Soni Manipal Hospital is a unit of Manipal group of hospital. It is the tertiary care hospital having 250 operational beds.
- Hospital provides oncology, radiology, cardiology, nephrology, gastroenterology, endocrinology, gynecology , pediatrics, neurology, pulmonology, urology, dermatology etc services.

Responsibilities assigned to me by the organization:

- To gathered the information about the Signage .
- To gather the information about the uniform required by staff.
- To identify the linen required in the hospital.
- To conduct floor Audits on daily basis.
- To identify the IP bed distribution in all departments.
- To identify the number of trolleys, wheelchairs and hydrolytic chairs.
- To assist in nursing service update as per the Manipal standards.
- To coordinate various meetings of the doctors.
- To understand the system of feedback forms.

DISSERTATION REPORT

A study to improve the utilization of operation theatre in a multispecialty hospital.

Introduction

- Operation theatre is the complex workshop in hospital which incurs huge cost.
- Operation theatre management requires the proper co-ordination between material and human resources
- Enhancing the efficiency is a challenging process due to the conflicting priorities among the stakeholders.

Rationale

- Number of surgery cases in one of the Manipal hospital unit with the similar number of beds strength was found to be 20 cases per day whereas it was approximately 7 cases per day in Soni Manipal hospital, Jaipur. Thus, it became essential to identify the gaps that catered for under utilization of the operation theatre.

Aims and objective:

- Aim:

To improve the Operation Theatre utilization in Soni Manipal Hospital, Jaipur.

- Objectives:

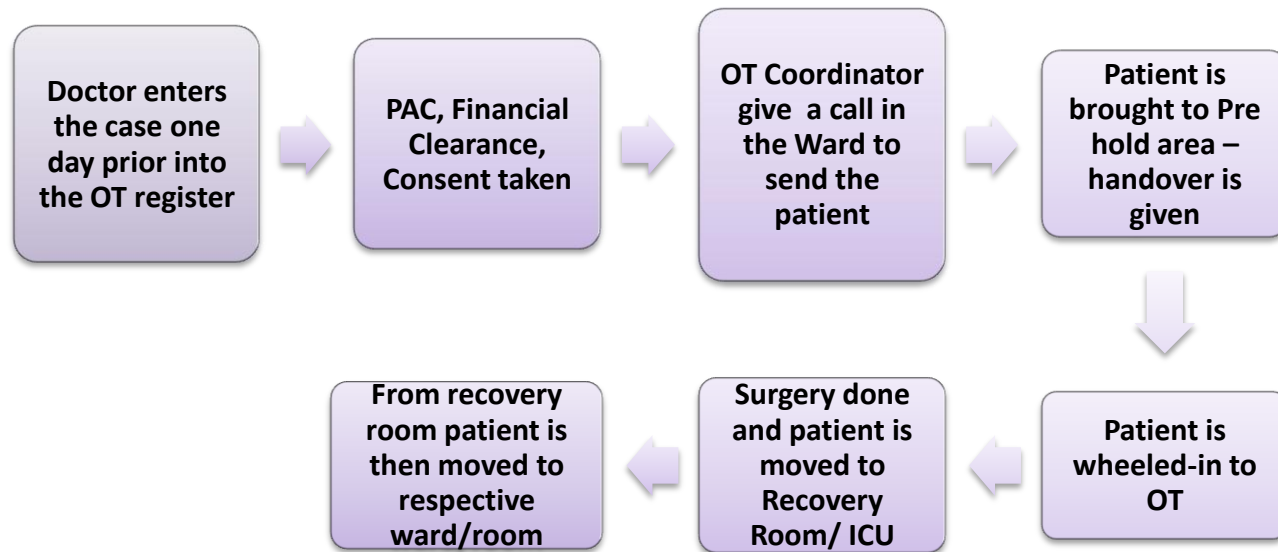
- To find out OT utilization rate at Soni Manipal Hospital, Jaipur.
- To identify the bottle necks in the system, for proper and efficient utilization of Operation Theatre
- To suggest remedial measures for improving the Operation Theatre Utilization.

Study Design

- **Study Setting:** Soni Manipal Hospital, Jaipur.
- **Study Period:** Feb 1st to April 30th 2014
- **Study Population:** In patients and outpatient Surgery Cases.
- **Study Sample:** All surgery cases in period between Feb. to April 2014 were taken.
- **Study design:** Descriptive study

Data collection:

- **Primary data:**
 - Records and reports that were made on daily basis for all seven OT's.
 - Total data was collected from all the OT's for all the surgery performed during the period February to March.
- **Secondary data:**
 - Process mapping in which the total manpower available in operation theatre.
 - Process flow



Analysis

- **Objective 1-** Estimation of OT utilization:

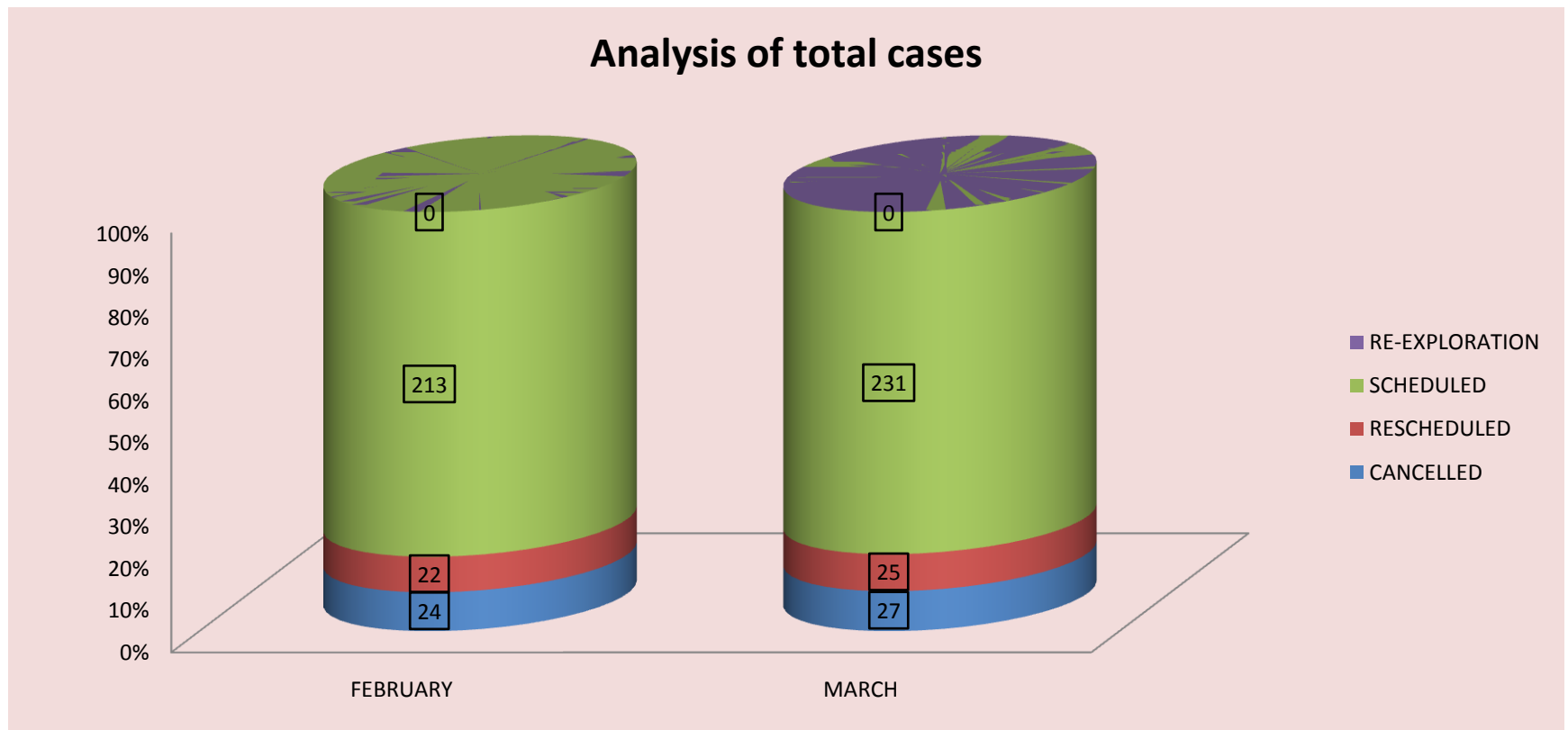
$$\text{Utilization} = \frac{\text{Total time taken for surgery} + \text{Total time taken for cleaning(in hrs)}}{\text{Total hrs available for theatres}}$$

Month	OT Utilization
February	34.52%
March	32.55%

Analysis Of Total Cases

Total cases(February)- 259

Total cases(March)- 283



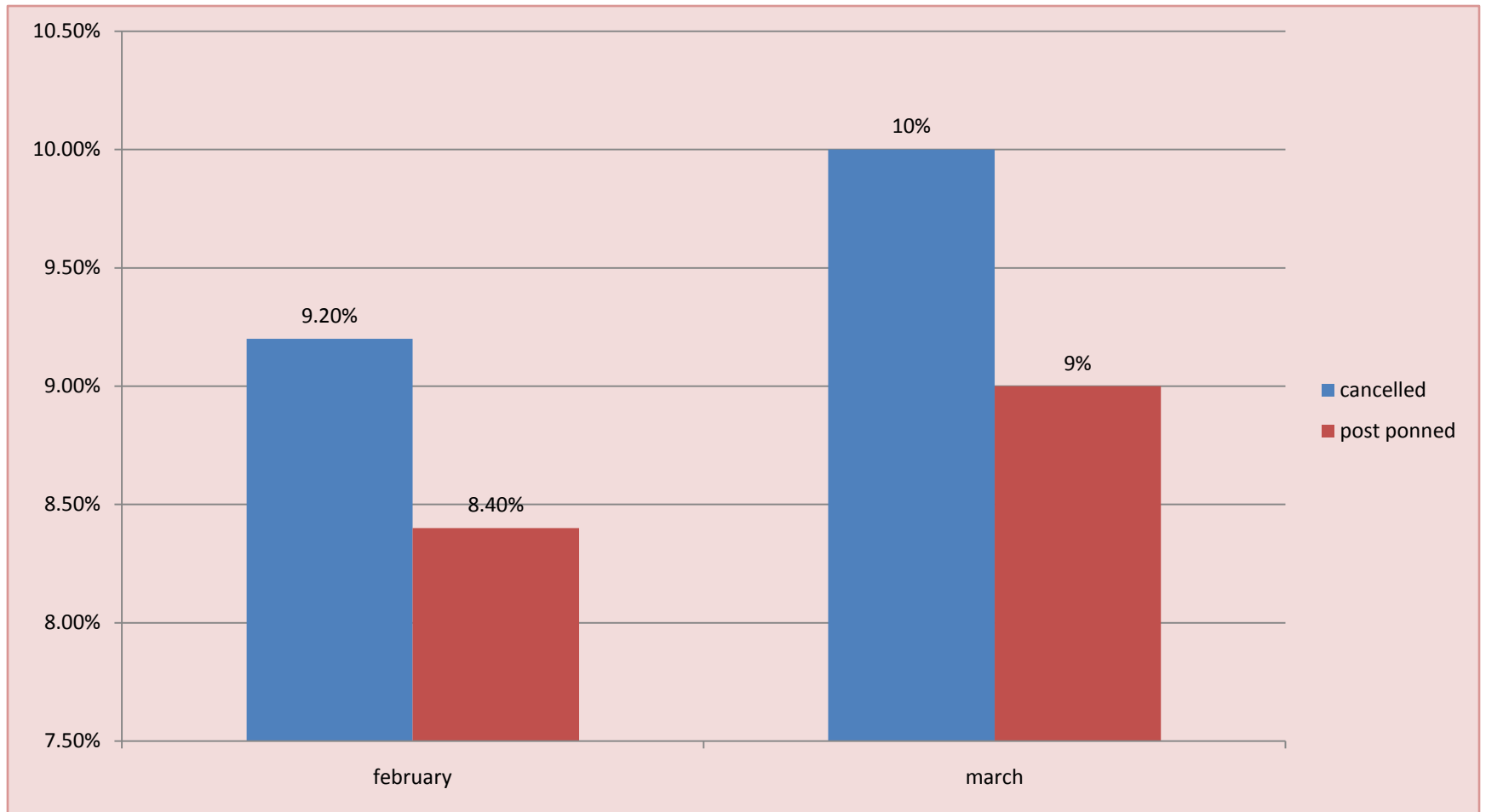
Analysis

- **Objective 2-** Gaps identified for the under utilization of operation theatre.
 1. In OT booking: Incomplete information
 2. In clearance
 - a. Pre anesthetic check up
 - b. Financial clearance
 3. In Investigation: Delay in reports
 4. In taking the consent
 5. In shifting of patient from ward to OT and vice versa.

Reasons for under utilization of OT

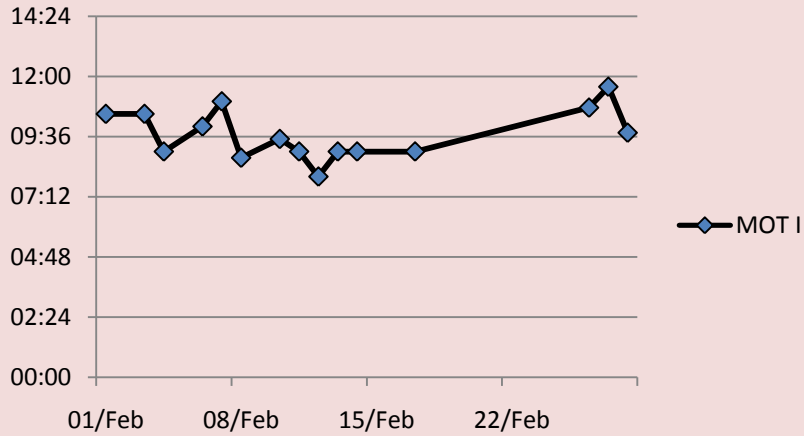
- Cancellation of cases
- Postponement of cases
- Delay / Preponement of Scheduled cases.
- Late start of OT for the day

Cancelled and Postponed Cases

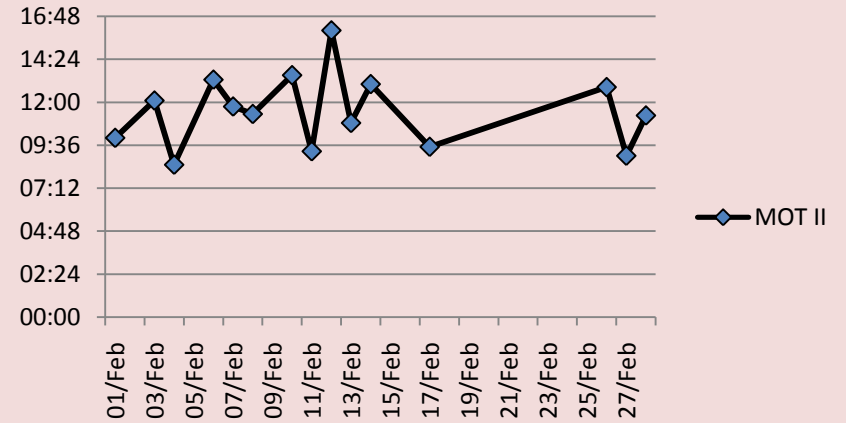


Late start of OT

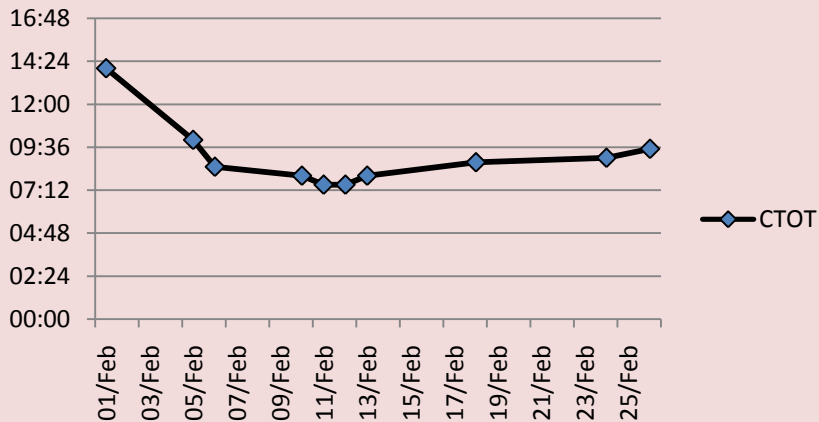
Modular OT I



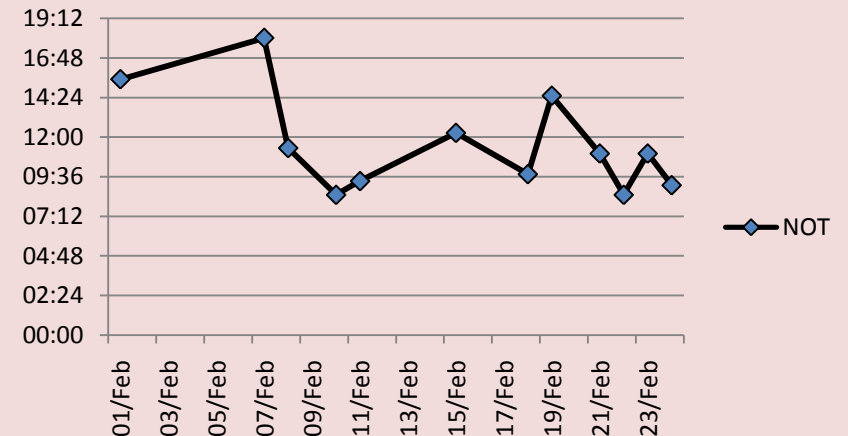
Modular OT II



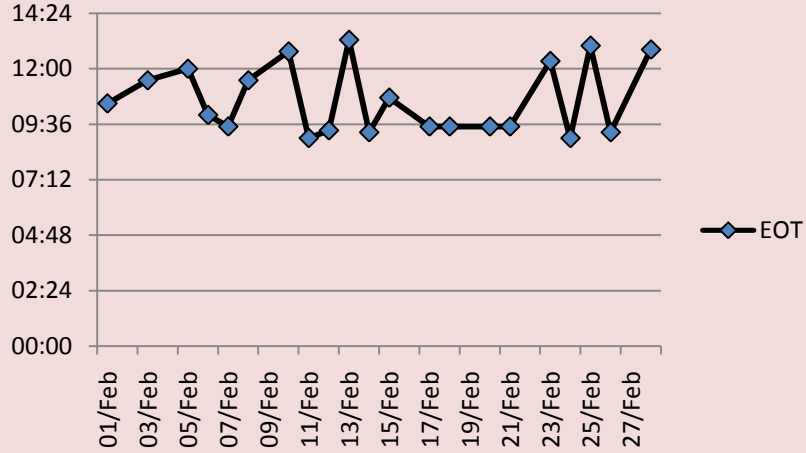
Cardio Thorasic OT



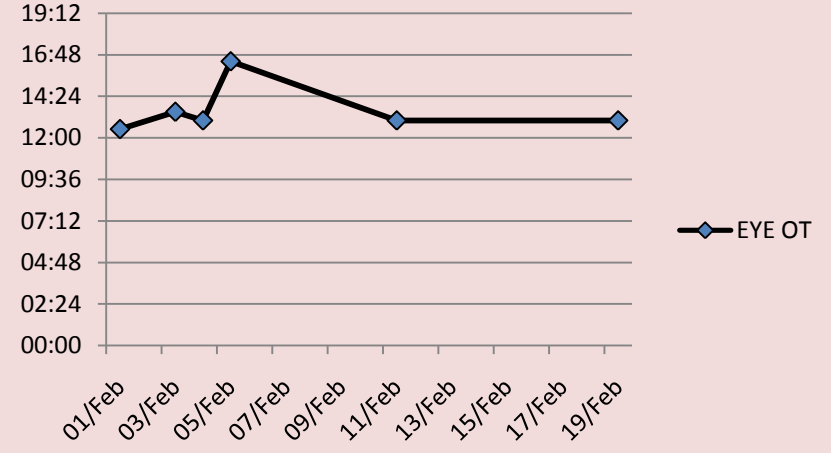
Neuro OT



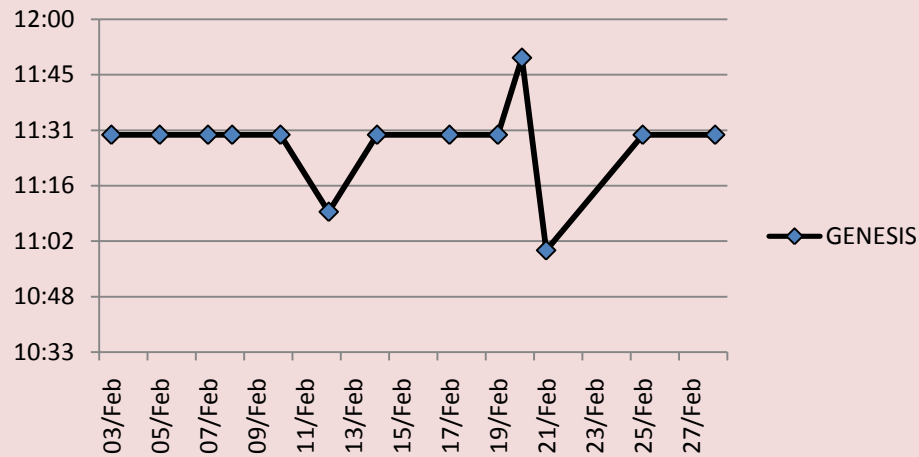
Emergency OT



EYE OT



GENESIS



Conclusion

- OT utilization rate was found to be 34.52% in month of February and 32.55% in month of March.
- On an average there was two hour delay in start of OT.
- Lack of communication was there in booking of OT's.
- Proper scheduling of the cases was not there.
- OT was booked before getting the all the clearance.
- There was a significant delay in shifting of patients.

Recommendations

Remedial measures for improving the OT utilization

- HMIS should be used to book the cases for surgery.
- OT should be booked one day prior to surgery till 4:00PM only.
- OT booking should be done after getting the TPA approval only.
- PAC should be done one day prior to the surgery.
- Ward boys from the OT complex should be responsible for shifting of the patients.
- Some amount should be deposited at the time of booking, to avoid cancellations.

Limitations of the study

- From the patients end:
 - Late arrival of patient despite patient education and counseling.
 - Non submission of documents on time leading to late approval.
 - Change in decision for having surgery .

THANK YOU