



IMPROVING OT EFFICIENCY BY MANAGING MEDICAL CONSUMABLES AT PSRI HOSPITAL, DELHI



BRIEF HISTORY

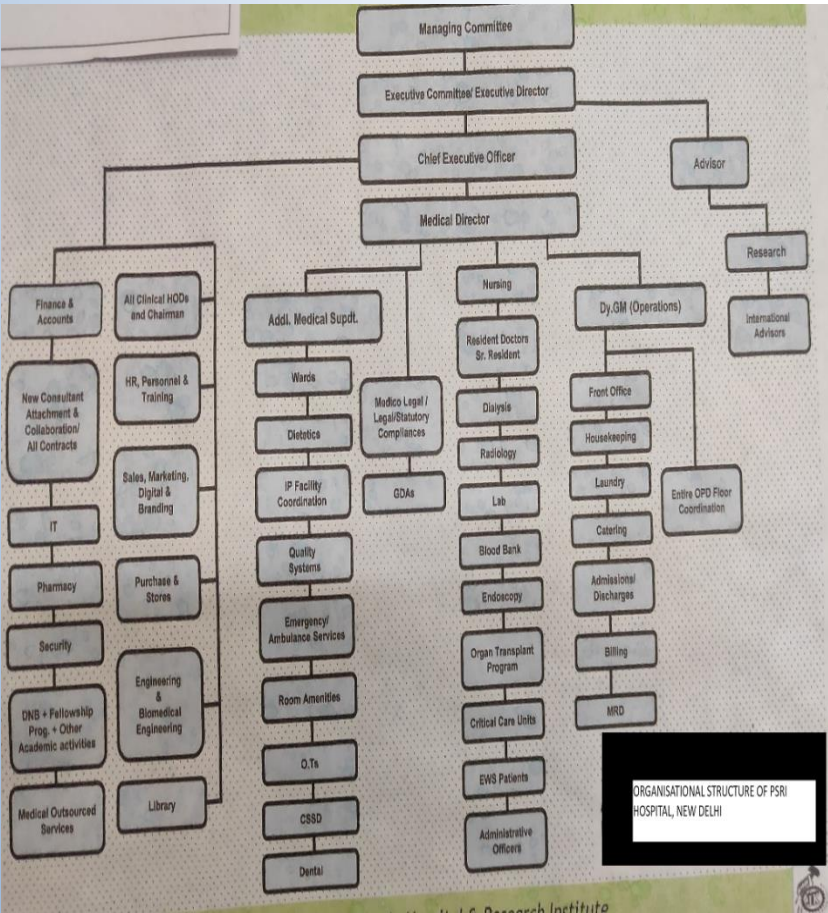
Pushpawati Singhania Research Institute (PSRI) Hospital in Delhi is a renowned multi-specialty healthcare institution established in 1996. Founded with the primary aim of offering specialized and advanced medical care, PSRI initially focused on nephrology, urology, and gastroenterology. Over the years, it has expanded its services to include cardiology, orthopedics, neurology, oncology, and various other specialties. The hospital is well-known for its state-of-the-art facilities, highly skilled medical professionals, and a patient-centric approach. PSRI continues to be a leading healthcare provider in India, committed to excellence in medical care and research.

MISSION & VISION

VISION- To achieve excellence in the health care delivery system through hard work and human touch.

MISSION- To help the ailing people through our chosen specialties. Devote ourselves to professional excellence through original research and academic activities. To work in a team to provide quality services at the most affordable cost.

ORGANOGRAM OF THE PSRI HOSPITAL



INTRODUCTION

In the dynamic healthcare industry, managing costs while ensuring high-quality patient care is paramount. Operating Theatre (OT) consumables represent a significant expense for hospitals. This internship project at PSRI Hospital that aims to reduce OT consumable usage to boost profit margins without compromising care quality. By analyzing usage patterns, identifying wastage areas, and implementing optimization strategies, the project seeks to balance cost control with clinical excellence. Leveraging data-driven insights and inventory management best practices, this initiative aims to achieve substantial cost savings and improve the institution's financial health, contributing to sustainable and efficient healthcare delivery.

OBJECTIVES OF THE STUDY:-

- To analyze the consumables used by doctors during surgery
- To analyze the consumables items amount with profitability of hospital

METHODOLOGY:-

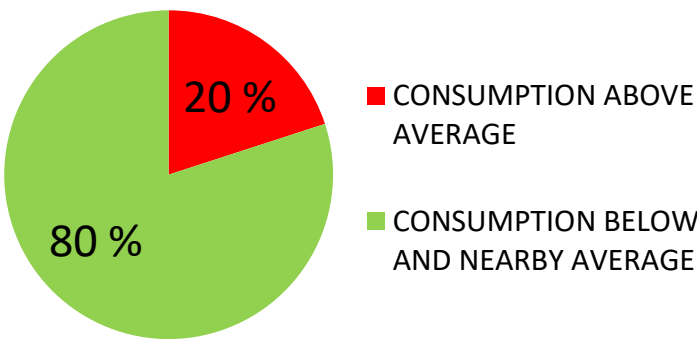
- RESEARCH DESIGN**
Observational perspective study.
- TIME OF STUDY**-data was collected around the period in month of June.
- PLACE AND DURATION OF STUDY**- Operation theater of PSRI hospital.
- INCLUSION CRITERIA**- Laparoscopic cholecystectomy surgery.
- TYPE OF DATA**- Real time data based on observational studies.
- DATA COLLECTION METHOD**- Operation theater consumables list & Final consumable billing details from IPD billing.

KEY FINDINGS

➤ Table of consumable amount and bill

PATIENT NUMBER	CONSUMABLE AMOUNT	FINAL BILL
1	38000	79572
2	36000	96906
3	23000	79907
4	23273	84978
5	18582	80621
6	25486	244828
7	22681	118893
8	22682	85398
9	24511	195258
10	23189	120966
11	19961	98378
12	30064	151871
13	23799	82729
14	25605	169545
15	19075	79485
AVERAGE	25060	117955

(By considering 10% of average consumable amount which is 27566 insights can be understood)



PERCENTAGE OF MEDICAL CONSUMPTION OF LAPROSCOPIC CHOLECYSTECTOMY SURGERY

- Percentage of criteria **RED** i.e. consumable amount exceeding from average amount is 20% (based on the patient condition and clinical reasons the consumable amount has been increased, surgery with consumable amount 38000,36000 was performed by TEAM A and surgery with consumable amount 30064, was performed by TEAM B)
- Percentage of criteria **GREEN** i.e. consumable amount lesser from average amount is 80%

SWOT ANALYSIS OF ORGANIZATION

STRENGTH

- Skilled health care professionals.
- Coordinator and support workers are available
- Good work culture.

WEAKNESS

- Longer waiting time in specific department.
- Shortage of staff.
- Less digitalization.

OPPORTUNITIES

- Cooperation with both private and public companies.
- Expansion of services.
- Establishing a great brand reputation.

THREATS

- Complex infrastructure of the hospital.
- Expensive charges for patients without panels.

LEARNING & VALUE ADDITION

- Learning about different type of departments.
- Understanding the OPD and IPD process.
- Team skilled work
- Understanding the working of OT.

THEORETICAL EXPOSURE V/S PRATICAL EXPSOURE

Theoretical knowledge at the university helped us understanding the fundamental concepts and principles about functioning of a hospital.
The practical exposure demonstrated how the knowledge learnt needs to be implemented in a specific hospital scenario

USEFULLNESS OF INTERNSHIP

- Corporate exposure.
- Patient interaction and experience.
- Proper exposure of the hospital and its functioning.

CHALLENGES FACED

- Limited period.
- More departments can be covered but due to confidentiality issues in organization, could not explore.

SUGGESTION

- Implement standardized surgical kits.
- System for monitoring material usage and providing feedback to surgical team.
- Regular review and update inventory to avoid under stocking.
- Use evidence based guidelines to determine essential material for surgery.

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Organization mentor- Dr. Kaushalendra Singh