

Topic of Study: Improving Operation Theatre Utilisation in Rukmani Birla Hospital Jaipur

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ABOUT RUKMANI BIRLA HOSPITAL

RBH (Rukmani Birla Hospital) is a 230 bedded hospital situated near Gopalpura flyover, Triveni Nagar, Jaipur. It a part of CK Birla hospitals and it opened in 2016.

CEO of CK Birla Hospitals is Dr. Simmardeep Singh Gill.

Vision: To provide best of Patient Service & Clinical Excellence.

Mission: To create Clinical Centres of Excellence on a strong backbone of research, academics and evidence-based medicine for best clinical and patient outcome.

INTRODUCTION

OT(operation theatre) is a specialized facility of the hospital where life saving or life improving procedures are carried out

Rukmani Birla Hospital, Jaipur has 6 operation theatres divided based on procedures that are undertaken there, namely:

- OT – 1: Orthopedics
- OT – 2: Neurology
- OT – 3: Obstetrics and Gyanecology + General Surgery
- OT – 4: Cardiothoracic and Vascular Surgery
- OT – 5: Orthopedics
- OT – 6: Urology + Obstetrics and Gyanecology

Utilisation Percentage Calculation formula:

[Total hours of surgery + cleaning time of OT/total operational hours]

OBJECTIVE

- To increase the OT utilization % from the current level to as near to the benchmark % of 85%
- To find out and solve the issues that lead to delay in OT cases and under utilization of OT

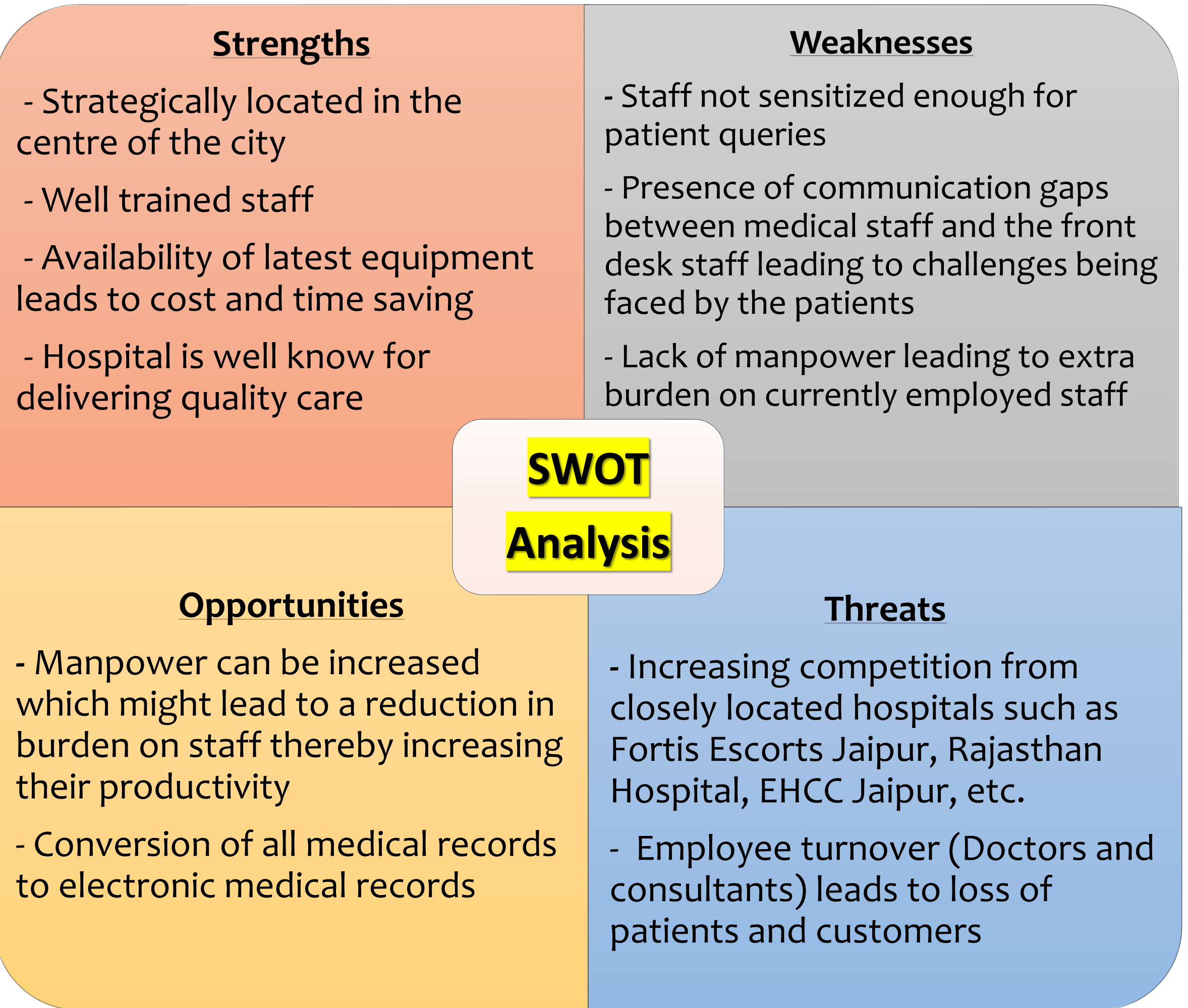
METHODOLOGY

Study Design	Prospective and Analytical study
Study Time period	April to May 2022
Sampling	Simple Random Sampling
Sample Size (No. of patients operated in April and May 2022)	855



WORK DONE AS AN INTERN

- Daily monitoring of OT cases and checking & recording the reasons for delay in the tracker.
- Coordinating with OT staff and doing RCA for the causes of delay.
- Learning about new terminologies, use of different equipment, procedures etc. and familiarizing myself with the work processes and organogram in the OT.
- Reporting daily reasons for delay to Medical admin team and industry mentor; informing urgent delays to Medical admin hand-to-hand in order to nip the cause of delay at bud.
- Ensuring timely communication between OT staff and medical admin staff by acting as point of contact for medical admin in Operation theatre.



CONCLUSION

Based on the prospective study of 855 people, it was found out that the OT utilisation for the months of April and May 2022 to be **63.09%** and **75.33%** respectively, lesser than the benchmark of 85%.

Following causes were found to be causing delay in surgeries thereby lowering the OT utilization:

- Surgery getting extended more than the requisite time
- Patients not getting admitted in the hospital on scheduled time
- Approval awaited (TPA, RGHS, surgical)
- Investigations pending

These causes are leading to a gap ranging from approximately 22% in April 2022 to 10% in May 2022.

RECOMMENDATIONS

- Doctors/consultants/counselors to ensure that patients get admitted on scheduled time i.e., 4-5 hours before surgery in order to curtail delay.
- Patients/attendants to be counselled to apply for their respective TPA/RGHS approval well on time so that surgery does not get delayed
- Bio-chemical LAB should follow the TAT of 3 hrs. for test results and nursing should ensure that samples are taken and sent on time to the LAB
- Ensuring availability of requisite equipment/tools for the surgery due to which the surgery gets delayed

LEARNINGS

- Team Effort:** It takes a lot of coordination between different stakeholders in order to make one operation/procedure successful.
- Importance of documentation:** All the requisite documents related to procedures, medical history, financials etc. which play an important role in the patient medical file
- Safety protocols & SOPs:** All the proper safety protocols must be followed in the triage in order to be compliant with the govt. regulations and for the safety of the patient.
- Importance of Training and development:** All the staff should be properly acquainted with how the different procedures function otherwise it might lead t serious lapses in patient safety and care.

GRAPHICAL REPRESENTATION OF THE FINDINGS

