

About the organization

Paras Healthcare Pvt. Ltd. is a chain of hospitals founded in 2006, with centers in Gurgaon, Chandigarh, Panchkula, Darbhanga, and Patna, Udaipur totaling 730 beds. It offers specialized tertiary medical care through Paras Hospitals and Paras Bliss, focusing on multispecialty and mother-and-child care respectively. Expansion plans include new centers in Uttar Pradesh.

Vision

Stepping Closer with every phase of developing healthcare provisions available for one and all, anywhere and everywhere with a futuristic advancement. Alongside channelizing and widening the horizons of PARAS HEALTH as a Centre of Excellence

Aim of Study

Implement standardized surgical bundles to streamline resource management, lower costs, and enhance patient safety and operational efficiency at Paras Health Udaipur.

Objective

Optimize resource utilization and reduce waste, lower the cost of goods sold (COGS) through accurate inventory management, enhance workflow efficiency by minimizing setup time and delays, improve patient safety with consistent availability of sterile supplies, and increase staff satisfaction by simplifying preparation processes.

Research Methodology

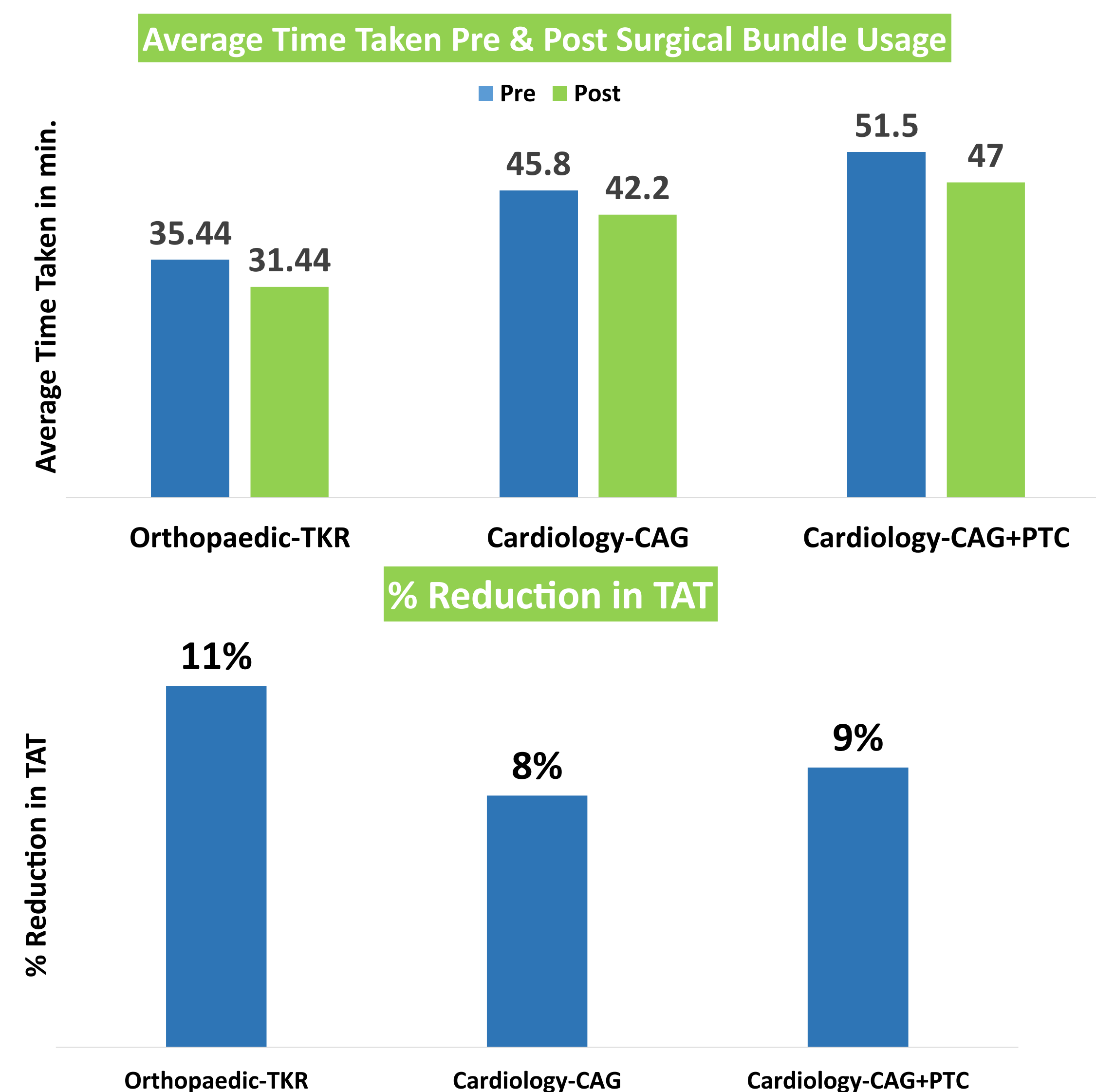
- **Data Collection:** Data from OT consumables bills and PMR sheets for various surgeries of following departments were collected:
 1. Obs. & Gynae: LSCS & D&C
 2. Orthopaedic: TKR, Robotic TKR & THR
 3. General Surgery: Appendectomy, Lap chole &
 4. Neurosurgery: TILF, Craniectomy, MLD & EVD.
 5. Cardiology: CAG & CAG+PTCA.
 6. Urology: PCNL, URSL, DJ Stenting & Removal.
- Data from six prior cases for each surgery was taken to understand consumable usage comprehensively.
- **Data Entry:** The extracted data was entered into a spreadsheet, with separate sheets for each surgery type and surgeon. Each sheet include Item Name, Qty. Used, Average usage & Qty. Suggested by Surgeon.
- **Data Analysis:** For each consumable item, the average quantity used across the six cases was calculated. This average was then presented to the respective surgeons for review and feedback.



Research Methodology

- **Surgeon Review:** Surgeons reviewed the average quantities and suggested adjustments based on their experience and preferences. This feedback helped us in finalizing the quantity of each consumable item for the surgical bundles.
- **Final Bundles Preparation:** Based on the surgeon's input, they fixed quantities for each consumable, so as to ensure a balance between requirement and consumption.

Results



Findings

- The implementation of surgical bundles significantly reduced the average time taken for procedures across all departments: Orthopaedic-TKR decreased by 3.56 minutes, Cardiology-CAG by 3.6 minutes, and Cardiology-CAG+PTCA by 4.5 min.
- The implementation of the surgical bundle resulted in a reduction in TAT by 11% in Orthopaedic-TKR, 8% in Cardiology-CAG, and 9% in Cardiology-CAG+PTCA.
- Detailed cost data related to the surgical items and used in these procedures is confidential and cannot be disclosed publicly due to confidentiality agreements.

Challenges

- Lack of teamwork and coordination among staff hindered process implementation.
- Communication gaps between departments caused delays and misunderstandings.
- Resistance from staff when introducing new clinical pathways and surgical bundles.
- Budget constraints limited the scope of improvements.
- Challenges in involving doctors in clinical pathway development.
- Difficulties in collecting accurate data for projects like optimizing ALOS and preparing surgical bundles.

PRACTICAL EXPOSSURE V/S THEORETICAL UNDERSTANDING

Practical Understanding at Paras Health	Theoretical Understanding at IIHMR University
➤ Operational, hands-on experience in healthcare management.	➤ Academic focus on healthcare systems and management theories.
➤ Real-world hospital setting, exposure to daily operations.	➤ Classroom-based, lectures, case studies, and discussions.
➤ Project management, data analysis, quality improvement.	➤ Strategic planning, policy analysis, leadership skills.
➤ Implementing practical healthcare guidelines and standards in real-world settings.	➤ Application of theoretical frameworks to analyze and address healthcare scenarios.

Usefulness of SIP

The internship provided practical experience to apply academic knowledge in real-world settings. Skills such as communication, teamwork, problem-solving, and time management were honed through hands-on tasks. Exposure to industry practices allowed for exploration of career interests and networking with professionals contributed to personal growth, fostering confidence and readiness for future endeavors.

- High-Quality Medical Services
- Experienced Medical Staff
- Advanced Medical Equipment
- Strategic Location
- Strong Brand and Expansion



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- Resource Constraints
- Staff Resistance to Change
- Communication Gaps
- Limited Involvement of Doctors in Administrative Decisions
- High operational cost

W



- Growing Healthcare Demand
- Investment in New Facilities
- Partnerships and Collaborations
- Training and development
- Technology integration

O

T



- Competition
- Regulatory compliance
- Pandemic and Health Crises

Learnings

- Developed skills in data analysis for ALOS and Surgical Bundle projects, using data to improve efficiency and patient care.
- Created standardized clinical pathways for surgeries, integrating guidelines and monitoring systems.
- Developed adaptability and problem-solving skills in a dynamic healthcare environment.
- Executed and managed multiple projects, acquiring valuable experience in project management while successfully accomplishing set objectives.
- Learned quality assurance through audits and training, identifying non-compliance, and proposing corrective actions.

Suggestions

- Conduct training sessions about the importance and benefits of compliance with EMR
- Develop personalized care plans to address individual patient needs, improving patient satisfaction and outcomes
- Conduct regular reviews of the collected ALOS data to identify trends and implement corrective actions.
- Conduct regular audits and compliance checks to ensure adherence to clinical standards and protocols.
- Standardize communication among OT managers and doctors to streamline surgical item procurement and reduce delays.