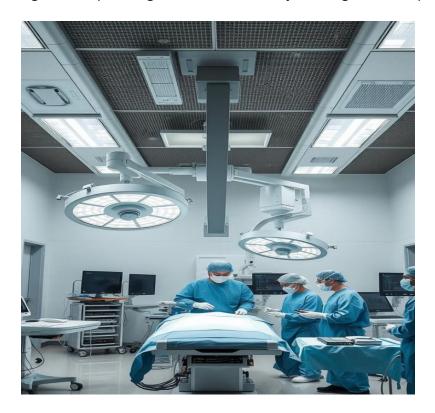
Revolutionizing Hospital Management: Introducing Amrita OT Scheduler

Amrita OT Scheduler is a cutting-edge solution designed to optimize operating theater scheduling, monitoring, and resource allocation. This innovative platform aims to enhance efficiency, reduce delays, and improve the overall flow of surgical operations. By streamlining hospital management, Amrita OT Scheduler seeks to transform the way hospitals manage their operating theaters, ultimately leading to better patient care.



The Challenges Faced by Operating Theatres

Operating theaters in hospitals often face numerous inefficiencies, including manual scheduling systems, underutilization of resources, prolonged surgeries, and increased patient waiting times. Handling unforeseen emergencies is another significant challenge. These inefficiencies can lead to decreased productivity, increased costs, and a lower quality of care.

Introducing the Amrita OT Scheduler

The Amrita OT Scheduler is designed to address these challenges head-on. This platform provides a range of features, including real-time surgery time monitoring, adjustable schedules, operational dashboards, intelligent allocation, and conflict resolution. By leveraging Al-driven scheduling, the Amrita OT Scheduler optimizes operating theater usage, automates detection and resolution of scheduling conflicts, and ensures efficient resource allocation.

"Optimizing OT scheduling, monitoring, and resource allocation"

Figure 1: Amrita OT Scheduler App

The Amrita OT Scheduler app provides a user-friendly interface for hospital staff to manage operating theater schedules, monitor surgeries in real-time, and allocate resources efficiently.

Key Functionalities of Amrita OT Scheduler

The Amrita OT Scheduler offers several key functionalities that enable hospitals to optimize their operating theater management. These include automotive scheduling, optimal resource utilization, real-time monitoring, handling unforeseen emergencies, and data-driven insights. By leveraging these functionalities, hospitals can reduce delays, improve efficiency, and enhance patient care.

| DATE OF SURGERY | AGE/SEX | SURGERY | SURGEON | SPECIALITY | Name of the Patient | Special Request | Mrd Number |
|-----------------|---------|----------------------------------|---------------------|----------------|-------------------------|------------------|------------|
| 18-07-2024 | 28Yrs/F | DJ Stenting | Dr. Priya Gupta | Urology | Mr Vikram Singh | C ARM (Simans) | 1201 |
| 18-07-2024 | 47Yrs/F | Hemorrhoidectomy | Dr. Amit Patel | Gen Surgery | Ms Anjali Patel | | 1202 |
| 18-07-2024 | 2Yrs/M | EMERGENCY LSCS | Dr. Anjali Gupta | OBG | Ms Poonam Sharma | Cusa (Soring) | 1203 |
| 18-07-2024 | 6Yrs/M | Bioplar Hemiarthroplasty | Dr. Rahul Singh | ORTHO | Mr Rakesh Kumar | | 1204 |
| 18-07-2024 | 66Yrs/F | RIGHT Eye Pterygium Surgery | Dr. Priya Sharma | Ophthalmology | Mr Saleem Khan | | 1205 |
| 18-07-2024 | 69Yrs/F | LSCS | Dr. Rahul Singh | OBG | Ms Anita Sharma | | 1206 |
| 18-07-2024 | 78Yrs/F | Lap Cholecystectomy | Dr. Ritu kumari | Gen Surgery | Ms Madhuri Devi | | 1207 |
| 18-07-2024 | 23Yrs/M | Examination Under GA | Dr. Sanjay Kumar | Gen Surgery | Mr Gopal Das | | 1208 |
| 18-07-2024 | 30Yrs/F | TURP | Dr. Vikram rathod | Urology | Ms Kavita Devi | Cusa (Soring) | 1209 |
| 18-07-2024 | 39Yrs/F | Leep | Dr. Anjali kumari | Oncogyne | Mr Ravi Shankar | 3 (3) | 1210 |
| 18-07-2024 | 55Yrs/M | EUA | Dr. Amit kapor | Oncogyne | Mr Vikas | | 1211 |
| 18-07-2024 | 3Yrs/M | Vaginal Tag Excision | Dr. Amit Gupta | Oncogyne | Mr Mahesh Chandra Singh | | 1212 |
| 18-07-2024 | 7Yrs/M | Hysteroscopic Endometrial Biopsy | Dr. Amit kumar | Oncogyne | Mr Deepak Kumar | Robot (Divanchi) | 1213 |
| 18-07-2024 | 64Yrs/M | Excision OF Breast Lump | Dr. Meenakshi Sahai | Breast Surgery | Mr Ajay Kumar Singh | | 1214 |
| 18-07-2024 | 36Yrs/F | Breast Abscess Right | Dr. Priya gupta | Breast Surgery | Ms Neelam Devi | | 1215 |
| 18-07-2024 | 51Yrs/F | RIGHT Eye Cataract Implantation | Dr. Anjali Patel | Ophthalmology | Mr Amit Kumar Singh | C ARM (Simans) | 1216 |
| 18-07-2024 | 60Yrs/F | RIGHT Eye Pterygium Surgery | Dr. Mohan yadav | Ophthalmology | Ms Jyoti Devi | | 1217 |
| 18-07-2024 | 8Yrs/M | Cataract | Dr. Vikram Singh | Ophthalmology | Ms Kiran Devi | | 1218 |

Table 1: Input Sheet for Surgery Scheduling

Module 1: Scheduler

The scheduler module allows hospital staff to upload input sheets containing surgery, patient, and doctor details. The module then generates a scheduled output, taking into account various constraints and preferences.

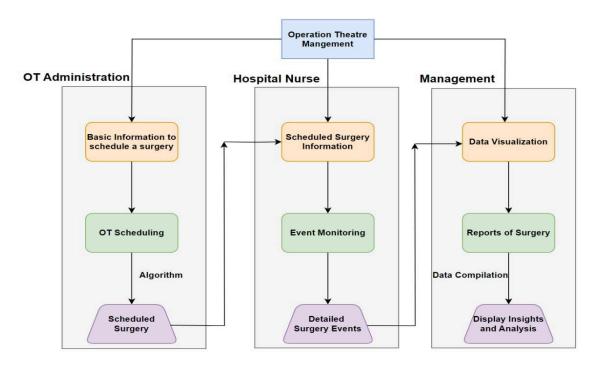


Figure 2: Flow Chart of OT Management

The flow chart illustrates the workflow of the Amrita OT Scheduler, from uploading surgery details to generating scheduled outputs and making .

Module 2: Real-Time Monitoring

The real-time monitoring module enables hospital staff to track surgery progress in real-time, making it easier to manage operating theater resources and allocate staff efficiently.

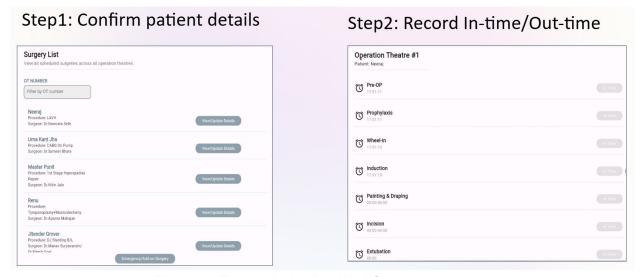


Figure 3: Event Monitoring Workflow

The event monitoring workflow illustrates the steps involved in tracking surgery progress, from confirming patient details to recording in-time and out-time.

Module 3: Reports of Surgeries

The reports module provides hospital staff with valuable insights into operating theater usage, turnaround times, and performance metrics. This data can be used to optimize operating theater management, reduce delays, and improve patient care.

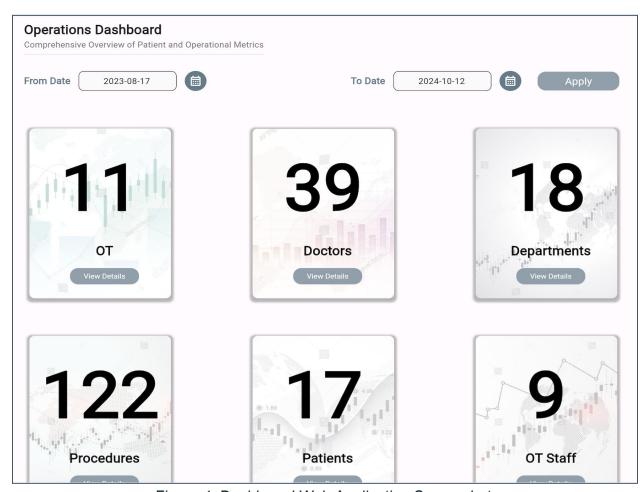


Figure 4: Dashboard Web Application Screenshot

The dashboard web application screenshot illustrates the user-friendly interface of the Amrita OT Scheduler, providing hospital staff with easy access to operating theater schedules, surgery procedures, department details, and resource information.

A Seamless Solution for OT Management

Amrita OT Scheduler is designed to streamline the complexities of managing operating theatre schedules. With real-time monitoring, Al-driven conflict resolution, and optimized resource allocation, hospitals can enhance operational efficiency, reduce delays, and improve the quality of care for patients. This innovative solution not only addresses current challenges but also sets the stage for a more effective, data-driven approach to healthcare management.

By leveraging the Amrita OT Scheduler, hospitals can revolutionize their operating theater management, leading to improved efficiency, reduced delays, and enhanced patient care.