PRO-OR: OR SCHEDULING TOOL TO IMPROVE OPERATIONS AND REDUCE COST

HEALTHCARE IT

Operating room (OR) scheduling tool that optimizes resource utilization, increases efficiency, and decreases hospital costs.

TECHNOLOGY TYPE
Software
Operating Room (OR) Scheduling
Machine Learning
Artificial Intelligence
Surgery Centers
Hospitals

STAGE OF DEVELOPMENT
- Prototype used in clinics with retrospective data shows utilization rate increasing from 53% to 88%.
- Next version will focus on AI capabilities for prospective scheduling.

IP PROTECTION
Provisional Patent Filed
Copyright Registration in Progress

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Reference Number: U-6363

Leena Bhoite
Technology Manager
leena.bhoite@tvc.utah.edu
801-213-3581

TECHNOLOGY SUMMARY
Hospital Operating room (OR) planning is a complex task where numerous resources must be synchronized in order to achieve optimal resource utilization and cost efficiency. Many outpatient ORs use block scheduling to assign time to surgeons requiring hospitals to staff an entire surgical team, of nurses, anesthesiologists, and technicians, for an entire day when only a couple procedures are scheduled. This creates staffing conflicts and reduces efficiency, ultimately increasing hospital costs. OR Scheduling Tool is a smart web-based software with easy user interface, designed to improve utilization of OR time integrating various details and factors such as time needed for a procedure and hospital goals. Embedded algorithms strip patient data from schedules to allow hospitals and surgical centers to share best practices for optimizing OR time. The software is being developed for prospective OR scheduling and staffing to offer insight into cost-containment schemes.

FEATURES AND BENEFITS
- Offers insight into cost-containment schemes.
- Mitigates day-to-day variability.
- Increases number of surgeries that can be performed per day by reducing block scheduling with unused OR time.
- Offers real-time optimization of workflow.

RECENT PUBLICATIONS

INVENTOR PROFILE
Derek Sakata, M.D., Professor - Department of Anesthesiology
Joe Falk, M.H.A., Director - Perioperative Business Services, University of Utah Healthcare

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