



software solutions

to improve efficiency and reduce costs
in the peri-operative environment



At a glance - opflo suite

- Aimed at O.R. managers and staff (anesthesiologists, nurses, surgeons)
- Aids in managing a suite of O.R.s and staff
- Integrates data from disparate systems
- Presents real time O.R. resource utilization data in one easy-to-use user interface
- Multiple user configurable status boards and reports
- Automated paging / decision support to improve first case starts / turnover time
- Records staff locations, assignments, and staff in / out times for staffing, billing, and ACGME requirements

opflo suite

flexible solutions for your workflow management needs

Case Study: Salzburger Landeskliniken

A Paracelus Medical University Teaching Hospital, Salzburg, AU

Facility At A Glance ~ Salzburger Landeskliniken is an organization that comprises of Landeskrankenhaus (the State Hospital), Christian-Doppler-Klinik, Landesklinik St. Veit, the Universitaetsinstitut fuer Sportmedizin, and Alle Einrichtungen. SALK is the partner and research hospital for Paracelus Medical University. Being the largest hospital organization in the Salzburg region, it receives the most complex cases, treating approximately 475,000 patients (320,000 out-patients and 155,000 in-patients) per year.

SALK has over 1,800 beds with 39 Operating Rooms / Suites spread out over 12 locations on 3 campuses. It employs 76 anesthesiologists and 62 anesthesia nurses, who travel between these different locations as well as campuses.

Organizational Challenges ~ With Staff providing anesthesia to patients in 39 anesthetizing locations over 12 geographically distinct locations, resource management was one critical part of a plan to improve O.R. efficiency. An organizational decision to have a dedicated O.R. manager and to implement ORRMS was made, with hopes of improving surgical turn-over-time, case starts, and minimizing use of overtime staff resources.

SALK had several different software systems in use, such as ORBIS and home grown scheduling systems. ORRMS needed to be able to integrate with these systems. Furthermore, ORRMS needed to adhere to and be customized for SALK workflow and the German language.

Implementation Results ~ opflo suite installed in 2010 and technical implementation of the opflo software suite was seamless. Although one source system (HIS and Personnel software) did not allow direct access to database, a secondary strategy was used to develop these interfaces without significant delay. ORRMS was customized by user via customization tools to better match their workflow, and internationalization was easily performed.

Implementation of the opflo suite resulted in streamlining of the staffing and case views of the Operating Rooms. It provided a dynamic visual and overview of all Anesthesia personnel. It also allowed other departments to use ORRMS as a display tool for real time access to the O.R.'s when cases were completed, resulting in a useful but unplanned consequence.

The ability to enter interactive comments and to enter other relevant information fostered better communication between providers in cases, clinical director, and ancillary staff. The ability to color code the different on-call statuses allowed for one, uniform view into the staffing of multiple locations.

Challenges to improving operational efficiency include organizational culture which continues to change, with ORRMS implementation being one key aspect contributing to improved O.R. efficiency.

The Future of opflo at SALK ~ SALK plans to continue to use ORRMS and opflo suite as it continues to strive for perioperative efficiency. The Return on Investment (ROI) for ORRMS as part of a broader operational efficiency improvement has been significant.

About opflo

opflo was formed in 2004 in recognition of the need for improved efficiency and cost savings in the peri-operative areas.

opflo has developed a suite of applications that allows peri-operative managers, anesthesiologists, nurses, and surgeons to work more efficiently in a real-time collaborative manner. Operative cases can start quicker with fewer delays, Operating Room downtime can be minimized, and clinician work life improved, all while saving organizations money.

Why opflo suite?

opflo suite is a web based, real-time collaborative dashboard used to easily manage the current state of the Operating Room (O.R.) and Recovery Room (R.R.) areas. Its unique and intuitive interface allows easy visualization of procedures, case status, and patient flow. Its patent pending feature set allows effective management of under-utilized O.R. block time and proactive prevention of patient & case related delays.

Our software integrates data from various systems and allows managers to simplify the daily tasks of managing a suite of O.R.s/R.R.s. Managers can instantly communicate with staff via integrated paging, be alerted of case changes and delays through automated decision support, and be aware of staff call schedules and special requests as they are making staffing changes.

The system also tracks overtime payroll expenses and can be integrated with billing systems. Customized reports, such as on resources used, staff/CRNA times, and resident work hours, are available for post-hoc analysis of areas of improvement.

opflo suite is an extremely affordable solution that can save the hospital O.R. utilization time and money.

System requirements

Client side: Any modern web browser on Microsoft Windows, Apple MacOS, or Linux.

Server side: Compatible J2EE server, PostgreSQL or other SQL compliant database server

Improve operating and recovery room workflow and efficiency

The perioperative areas are high revenue centers for the hospital. Efficient workflow and throughput are required to maximize cost savings and increase revenue. Optimization of these complex and dynamic areas require significant and constant management. A real-time workflow management system aids in monitoring and improving peri-operative workflows.

Visualize your workflow

- View progress of O.R.s and case status
- Immediately identify under-utilized O.R. time
- View staff room assignments, including call and shift assignments to determine who is available

Streamline O.R. management responsibilities

- Universal one-click search of cases, surgeons, staff
- Easily identify available staff
- View data from different sources in one user interface
- Page staff directly from application
- Keep track of staff breaks and requests
- Decision support to keep the O.R. on time / reduce turnover time

Improve staff quality of life

- Immediately know who's on call today and tomorrow, and who stayed late yesterday
- Keep track of staff requests

Reduce costs

- Generate reports to determine if you are meeting your staffing needs
- Determine your fixed and variable staffing costs
- Reduce administrative work of manual entry of staff overtime into billing system

Make your team more efficient

- Keep track of where staff has been and who is free
- Automate room-ready, patient-in pages
- Utilize resources as you need them and know what your capacity is
- All staff can view same information, in real-time



“With ORRMS, we can look back at historical case data to help improve our future staffing efficiency.”

Chairman, Department of Anesthesiology & CMO
Massachusetts Eye and Ear, Boston, MA

“Nursing leadership has easy access to staff assignments from various locations, even outside the O.R.”

Program Director
Peri-Operative Nursing Informatics
Brigham and Womens Hospital, Boston, MA

“The opflo suite of applications has dramatically improved communication surrounding staffing assignments because everyone is looking at one true source. No more conflicting paper assignments.”

Chairman, Department of Anesthesiology,
Salzburger Landeskliniken (SALK), Salzburg, Austria

For more information, visit

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opflo suite

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