

**ascom**

# Digistat<sup>®</sup> Surgery

Perioperative management solution



# A range of key theatre room management benefits, from one integrated solution.

## **Helps maximise theatre room utilisation**

Digistat Surgery helps minimise theatre room downtime by providing smart scheduling tools to create efficient surgical plans. These tools support the smooth running of the surgical environment during the planning phase and while managing changes on the day of surgery.

## **Near-real-time monitoring of all ongoing procedures**

Helps ensure coordinators are continuously updated about the status of the operating block. Also supports dynamic management of lists to maintain efficiency. Integration with live video feeds provides additional visual checks to confirm the theatre room status.

## **Minimises material and resource waste**

Includes a powerful planning tool that lets planners specify the materials for each procedure, giving warehouse teams the clarity they need when preparing kits. Such planning helps minimise waste and costs. Stock levels are kept lean and manageable. Records of planned versus actual usage can be compared, providing a foundation for ongoing improvements.

## **Helps increase patient safety**

Efficient perioperative processes help reduce waiting lists. Digitally supported assessments help mitigate against potential harm during surgery. Post-operative monitoring can signal the need for preemptive action. And the automatic capture of information, and simple user interfaces, make sure that administrative needs do not negatively impact care quality.

## **Contributes to less documentation and fewer errors**

The digital documentation made possible by Digistat Surgery helps ensure that information is easily captured in a structured way. This can help minimise documentation time, transcription errors, and double documentation. Digistat Surgery also helps minimise manual transcription. When integrated with other systems and medical devices, it automatically captures information and imports it into surgical documents. Documentation is made even smoother by the availability of pre-configured forms for specific workflows.

## **Ascom Digistat Surgery is a clinical data management solution that manages every phase of perioperative care:**

- Case scheduling
- Support of anaesthesia records
- Theatre room allocation, material stock status and planning
- Near-real-time theatre room and procedure monitoring
- Patient tracking
- Automatic acquisition of data from connected medical devices

# Maximising efficiency before, during and after surgery is possible. Here's how.

We all know that planning and performing operations will always be a complex challenge. But it can be made easier—and more cost effective—with a proven surgical workflow system such as Digistat Surgery.

## PRE-OPERATION



Scheduling



Assessment



Material preparation

### Procedure scheduling and planning

Digistat Surgery manages all scheduling and preoperative planning. The solution integrates with the EPR, and can handle a single intervention or multiple procedures on the same patients. It helps minimise cancellations by ensuring all steps are correctly performed: informed consent, pre-op consultations etc.

### Anaesthesia pre-op assessment

Users can document complete anaesthesia records, from initial consultation to discharge/transfer. Documenting pre-op visits can be tailored to meet the needs of different departments, patients and interventions: elective, emergency, paediatric etc. The anaesthesiology documenting process can be aligned to satisfy different national guidelines.

### Material preparation

Efficiently manage the operating blocks stock room. Accurately forecast, prepare and allocate surgical kits. Assign personnel and equipment for multiple operations.

## INTRA-OPERATION

### Near-real-time theatre room block monitoring

Webcams continuously monitor theatres in real time, making it easy to confirm the true status of a room. Monitoring quickly reveals any anomalies, a major help for planners and administrators.



Theatre room block monitoring



Safety checklists



Anaesthesia



Material management



Intra-op charting

### Anaesthesiology intra-op

Use a touch-screen to digitally update and record the anaesthesiology record in theatre. No need for a keyboard or PC mouse. Digistat Surgery organises all anaesthesia events into logical and chronological groups, making them quick and easy to identify and update.

### Intra-operative charting and material management

Secure, direct charting on intuitive touchscreens helps reduce the risk of omissions, mis-readings and transcription errors. The use of RFID tags and barcodes keeps track of gauze and other materials and equipment items. Clinical data is automatically captured from connected medical devices and entered into the anaesthesia record.



Documentation

### Procedure documentation

Digistat Surgery documents all relevant actions performed during an intervention. Data is automatically collected from connected medical devices and entered into the anaesthesia record. At the end of the operation, Digistat Surgery creates a secure digital record of operating times, complications, materials used, drugs administered, implants used, etc.

### Anaesthesiology post-op

All anaesthesia events entered during the intervention are supplemented by clinical data collected from connected devices and automatically uploaded to the anaesthesia record. This combined data provides an accurate and secure post-op record—valuable data for future R&D, reviews, and a log of actions and administered medications. The system also enables post-op recovery monitoring.

## POST-OPERATION



Post-op monitoring



Patient transfer

# Module by module to a complete surgery management solution.

*Digistat Surgery consists of modules that can be tailored to meet specific workflow challenges. These modules are grouped together to match the three phases of surgical care: pre-operative, intra-operative and post-operative. Here are just a few examples of how such modules can increase the efficiency of all three phases.*

## Pre-operative phase

### Smooth scheduling

Digistat Surgery manages every task in pre-op scheduling. Procedure cards provide quick access to the data and requirements for each intervention. Decision support helps optimise theatre room utilisation. Calendar views give snapshots of planned procedures versus capacity. Also, Digistat Surgery creates kit lists, and sends them directly to the warehouse. It ensures that materials are requested early, which can reveal stock issues and helps reduce cancellations. A drag-and-drop function assigns staff to single or multiple procedures. Digital resource planning helps prevent double booking, and allows for the booking of specialist items.

### Digital pre-op assessments

Customisable digital forms support pre-op assessments. Digistat Surgery also helps minimise documentation time and human errors by automatically populating clinical and administrative systems (ADT, EHR etc.) with medical histories, demographics and so on. This structured data flow can help minimise delays by enabling smooth risk assessment, consent and eligibility confirmation.



### System interoperability

Digistat Surgery is vendor and technology neutral. It integrates with your existing and/or planned digital systems. Such strong integration creates open information flows, and helps minimise data silos—which is why we maintain our own in-house integrations team, something that sets us apart in the market.

*"The Digistat solution provides us with constantly updated clinical data, parameters and overviews of patients as they progress through our various departments. The data related to each activity are clear and shared."*

**Dr. Massimo Nolli**

Director ICU and Anaesthesia Department AUSL Piacenza

## Intra-operative phase

### Dynamic op-block management

Help ensure surgical teams are immediately aware of patients' arrival in the operating block. Digistat Surgery supports barcode/NFC scanning to enable easy, secure patient identification. Digital wallboards with colour-coded patient tags help ensure complete visibility of ongoing procedures, waiting patients, and late arrivals.

### Accurate surgical documentation

Digital forms support the accurate registration of mandatory checklists which contributes to patient safety, less documentation, and the automatic logging of documentation into the clinical record. Checklists can be flagged and made mandatory when beginning a procedure, which can help ensure compliance with clinical governance. Workstations for nurses and anaesthetists enable the digital logging of all intra-operative activities. Documents from nurses and anaesthetists are combined into a single journal. Unplanned materials usage is easily and accurately entered into the surgical record. This is done by searching a list within the software, or by scanning (with barcodes/NFC) the items as they arrive in the theatre room.

### Medical device integration and charting

Digistat Surgery integrates with medical devices, collecting near-real-time data and validating them directly into the surgical record. Clinical parameters are presented graphically for easy charting. Surgical events, anaesthesia activities, drugs and alerts are presented alongside the chart to give a comprehensive overview of the patient's physiological condition.

## Post-operative phase

### Recovery management

Digistat Surgery monitors and evaluates post-op patients from the moment they leave the theatre room until transfer. Clinicians can perform and access assessments (Aldrete, NEWS2 etc.) on mobile devices. They can assess and record patients' conditions, and receive decision support to help ensure safe discharge/transfer. Digistat Surgery integrates with medical devices, including wearable devices. Clinicians can constantly monitor patients' vitals throughout recovery. This, together with clinical decision support, helps ensure that clinicians can intervene at the first signs of deterioration.

### Powerful data management

Comprehensive surgical reports help simplify administration and create more time for patient care. Digistat Surgery creates printable and exportable surgical reports. Report templates can be created for surgeons, anaesthetists and nurses, and can be populated with automatically retrieved data from the perioperative record. Digistat Surgery provides a base for continuous improvements by logging and recording data in an SQL Database.

### High-uptime architecture

Digistat Surgery is a critical clinical system. It has been designed, built, rigorously tested and certified to be resilient and reliable. And of course, it is supported by our global services program. Moreover, Digistat Surgery is completely modular. It consists of units that can be customised to meet the needs of your facility. This design means you can start small, with modules aimed at specific issues, then gradually scale up to a comprehensive acute care management system.

*"I believe that Digistat is an important element in the empowerment of all the actors involved in the surgical process. This is thanks to the traceability it offers of all elements involved in surgical workflows. It has helped make information transparent and easy to use. For example, we now have uniform and consistent language in every step of the surgical workflow. Moreover, during the creation and implementation phase of the solution in the surgery blocks, we worked in close collaboration with Ascom, who responded quickly and efficiently to all our requests and needs."*

**Dr. Alba Riccheo**

Manager Surgical Route Plate Blocks Operators,  
Maggiore Hospital Bologna

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**About Digistat®**

Digistat® Suite is the clinical information system developed by Ascom to manage patient data in different areas (e.g. Intensive Care Units, Operating Rooms etc.).

It is a medical device according to local legislation, depending on modules used. The solution may not be available in a particular country or region as subject to regulatory clearance.

Please check with Ascom UMS or your local Ascom representative, for the availability of the solution in your market and for detailed technical specifications or compatibility restrictions. Specifications are subject to change without notice

Digistat Surgery is a specific solution of Digistat® Suite.

**About Ascom**

Ascom is a global solutions provider focused on healthcare ICT and mobile workflow solutions. The vision of Ascom is to close digital information gaps allowing for the best possible decisions – anytime and anywhere. Ascom's mission is to provide mission-critical, near-real-time solutions for highly mobile, ad hoc, and time-sensitive environments. Ascom uses its unique product and solutions portfolio and software architecture capabilities to devise integration and mobilisation solutions that provide truly smooth, complete and efficient workflows for healthcare as well as for industry and retail sectors.

Ascom is headquartered in Baar (Switzerland), has subsidiaries in 15 countries and employs around 1,300 people worldwide. Ascom registered shares (ASCN) are listed on the SIX Swiss Exchange in Zurich.