



## Galaxy Surgery

### Product outline

Galaxy Surgery provides the ability to:

- schedule patients to outpatient clinics
- manage surgical waiting lists
- schedule patients and resources to theatre
- schedule personnel
- maintain inventory and stock control
- monitor the perioperative progress of patients
- enter patient assessment and care plans
- provide cost, budget and contract information
- produce all patient documentation
- interface to other systems
- provide management and audit information
- provide clinical analysis reports.

**Galaxy Surgery is moving information technology for the health service into the 21st century. The application provides the ability to support management decisions and clinical analysis. Developed in an open systems environment, Galaxy Surgery is independent of operating systems, networks, databases and user interfaces. It is therefore able to support most hospital IT strategies and interface to existing patient administration systems.**

Galaxy Surgery provides managers and clinicians with the functionality to use resources, manage costs and deliver improved quality of service to patients. The system has a range of modules designed to address the specific aspects of resource management and the patient theatre episode. Through the integration of the modules, the system streamlines the administration and planning of the patient theatre episode and related resource scheduling.

The system enables theatre managers and clinicians to schedule patients, plan capacity and, via procedure profiles, bring together the appropriate staff, stock and equipment required for the patient episode, based on the individual surgeon's preferences. This provides the ability to compare and make 'what if' projections to assess under- and over-capacity and monitor the effective use of budgets.

Galaxy Surgery manages every aspect of the patient episode from referral through to discharge, recording both clinical and management information for the episode. For each action or procedure, Galaxy Surgery records the associated costs and patient outcome.

The system enables the generation of an electronic patient record based on the individual patient episode, providing the facility to perform extensive clinical audit and integrate management information.

#### **Theatre activity**

A complete record can be made of all activity associated with the patient episode from the time the operating room calls for the patient to the time the patient is discharged from the recovery room. The system is designed to collect this information in real time with an option for retrospective input, should this be required. Eleven standard times can be collected and further user-defined times can be configured.

A detailed log is maintained, recording the procedures administered and by whom, and the drugs, resources and equipment used with costs. Coding systems including ICD, OPCS and Read are supported; local codes can be mapped if required. Reports on usage, throughput and workload can be produced.

#### **Personnel**

The personnel module provides the user with the ability to maintain complete medical and theatre staff details, which can include salary, pay scales and incremental points. Using this module, it is possible to store the usual working week of each member of the theatre staff and to identify whether they are full-time, part-time or bank staff. The personnel module can also record annual leave entitlement and prompt when action is required on training, appraisals and other key activities. This part of the system also stores Surgeon Preference cards which enables the user to allocate both stock and equipment to a planned procedure.

#### **Rostering**

Using the detail stored within the personnel module, the appropriate staff are allocated to the operating theatres within a hospital. A facility to enter staff leave requests, confirm these requests and set up shift patterns is available. Planned rosters can be produced and, at selected intervals, an actual roster is produced showing where staff actually worked, any sick days and any inter-theatre redeployment.

#### **Patient information**

Typically, this part of the system would be populated from an existing patient administration system and therefore the need for re-keying information is avoided, and consistent use of existing site codes can be achieved. All relevant details for patients can be stored, and manual entry is available if required.

**About iSOFT**

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Our capacity to embrace change and keep abreast of emerging new directions in healthcare allows our customers to explore the exciting potential of new technologies while securing their existing investments.

Today, over 13,000 provider organisations in 35 countries across five continents use iSOFT solutions to manage patient information and drive improvements in core processes. Our solutions are a catalyst for change, increasing efficiencies and providing direct benefits to all stakeholders across the whole spectrum of care.

Our business is driven by the collective talent, experience and commitment of over 3,700 specialists around the globe.

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**Theatre session control**

Sessions are created for each consultant based on waiting list priorities, theatre availability and consultant profiles. These sessions can be copied across various time periods and can be viewed in a graphical block type format. Information held within this module includes the type and number of operations that can be performed by a consultant within a session, the equipment required and other details that can be accessed by the scheduler.

**Scheduling**

The graphical diary feature greatly simplifies theatre scheduling, allowing patients to be scheduled into a session from the waiting list with conflicts of staff time, equipment or location being identified. Real time alterations are easily accomplished using drag and drop functionality.

**Reports**

A set of standard reports is provided with the system that will provide the most commonly required information at pre-determined frequencies, and further ad-hoc reports can be developed using a standard report generator.

**Anaesthetic audit**

Real time or OMR entry of data concerning pre-operative assessment, pre-medication, anaesthesia techniques and agents used provides a complete audit.

**Costing**

Every cost item and resource throughout a patient episode can be analysed and compared with budgets to pinpoint waste, measure productivity and highlight areas of concern.

**Stock control**

Every item of stock within multiple locations in the theatre department is controlled; the system generates picking lists, and ensures that items are re-ordered when minimum levels are reached. Requisitions and/or purchase orders can be produced on paper or electronically. Unique identification and batch numbers are recorded either manually or by bar code to allow full traceability. Stock will be reserved according to surgeon preference cards as patients are booked onto sessions.

**Equipment management**

All theatre equipment can be tracked with maintenance periods being automatically scheduled. Full traceability and usage history is maintained.

**Day surgery**

Specially developed to meet the needs of a modern day surgery unit, this part of the solution encompasses much of the functionality provided by the main theatres system but also caters for the particular requirements of this area. Reception and two recovery screens have been specifically developed for day surgery, while pre-assessment booking and patient pre-assessment are both available. A wide range of letter production, with copies for the patient and GP, is available from the system. The production of these letters can be automatically triggered by events recorded in the system and, using the Document Production module, creation of correspondence is achieved via a standard office automation package.

**Sterile services**

An integrated sterile services module is available, which provides the management information, traceability, usage and planning facilities required to operate a hospital sterile services department.

**Galaxy User Reporting Utility (GURU)**

The Galaxy User Reporting Utility is a separate application designed to run in conjunction with Galaxy Surgery. This allows users to create their own reports in Crystal Reports and run these on any Galaxy Surgery PC without the need for the Crystal Reports application. Certain key areas of Galaxy Surgery have been defined, dependant on the report setup, to allow the automatic generation of reports based on data available to the user at the time of running the report.