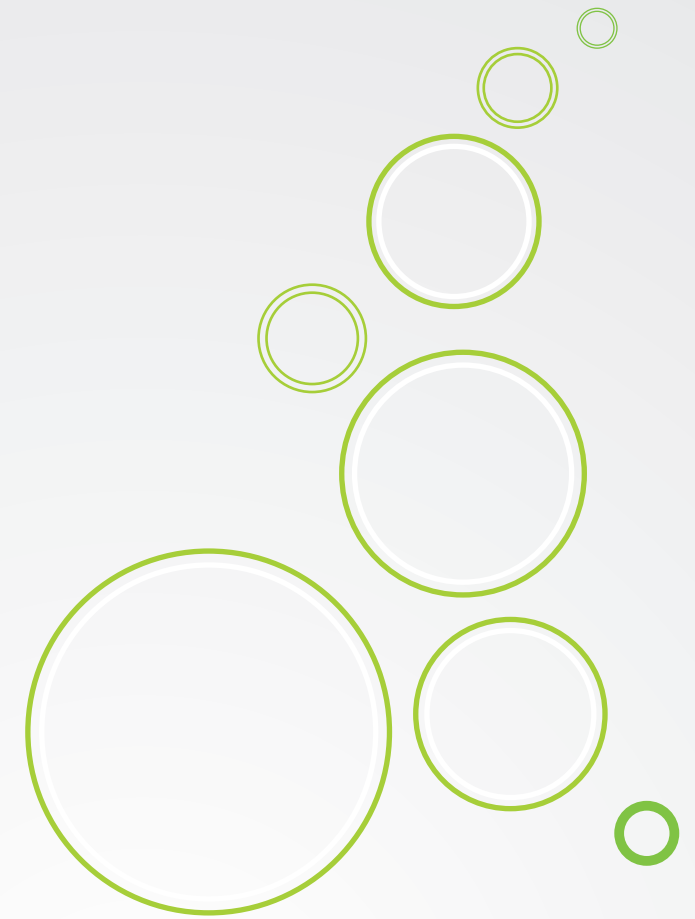




A Division of Religare Technologies Limited

Magnum HIS

Hospital Information System



Better Patient care and safety. Mend revenue and process leaks. Automate clinical and administrative functions. The "Magnum" suite of healthcare IT solutions deliver complete hospital management solutions for every care point. Built on state-of-the-art technology using industry standard formats, Magnum Suite of solutions enable clinical improvements, decrease medication errors, adhere to regulatory compliance, realize faster Return on Investment and attain overall administrative and clinical improvements.

Magnum HIS

Magnum is a comprehensive Hospital Information System (HIS) for managing the workflow processes across the healthcare enterprise. Magnum is capable of both retrieving and disseminating patient-specific data (clinical and financial) across the entire health enterprise. With more than 40+ incorporated modules, Magnum is designed to fulfil HealthFore's vision of the future of healthcare industry - IT reaching across the continuum of care.

Magnum is tightly integrated with HealthFore's other Healthcare products like Picture Archival and Communication System (PACS), Resource Management, Knowledge Management and Business Intelligence applications. Magnum therefore enables a totally integrated, paperless and film-less Healthcare enterprise.

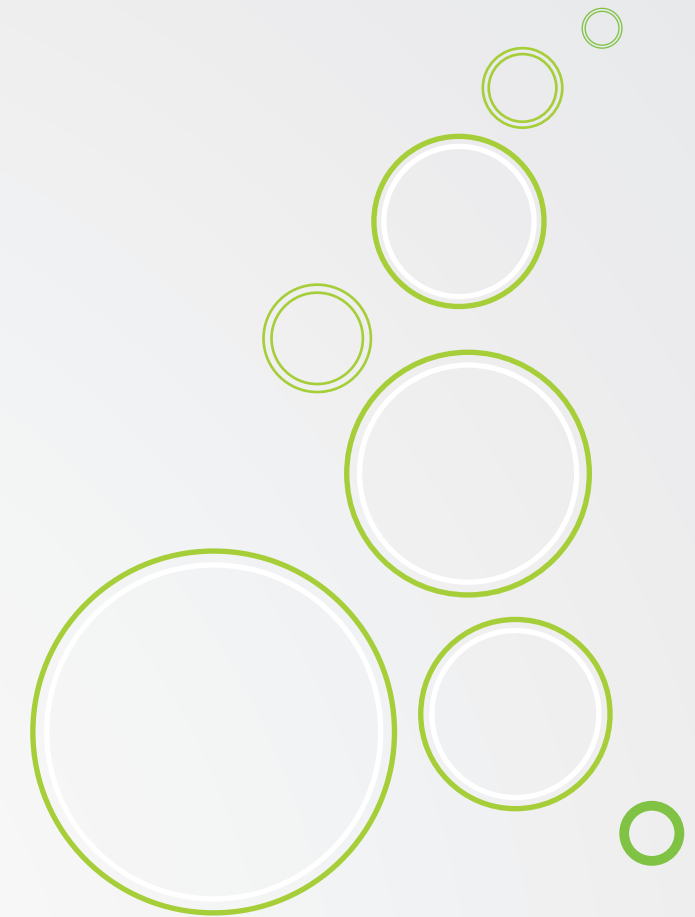


Apart from being HIPAA and HL 7 compliant, Magnum complies with the entire codification standards viz. disease coding, drug coding, etc.

The integrated solution has the advantage of tying together all the information system modules found in the Hospital network. All of the applications have been built to serve individual areas of functionality with the added value of interfacing among each other for shared functions and data. Our aim is to eliminate redundancy, so that all the Hospital's Systems and applications will appear as one seamless system to the end user.

A comprehensive list of modules

Magnum - HIS						
Patient Administration	Clinical Suite	Clinical Support Suite	Materials Management Suite	Revenue Management Suite	Support Modules	Tools
Patient Registration	Practitioners Workbench	Operation Theatre	Inventory	Patient Billing	Roster Management	Forms Designer
Appointment Scheduling	Nursing Workbench & Care Plans	Infection Control	Supply and Procurement	Insurance and Contracts Management	HRMS	Reports Designer
Admission Discharge and Transfer	Order Entry (CPOE) & Result Reporting	Labour & Delivery	Pharmacy Management System	Claims Management	User & Security Administration	View Definition
Accident & Emergency Management	e-prescribing (e-Rx)	IVF	Centralized Sterile Supply Department	Healthcare Packages		Alerts Engine
Bed & Wards Management	eMAR	LIMS	Dietary Services	Management Information System		Customization Editor
Disaster Management	Clinical Documentation	RIS	Linen & Laundry Services	Hospital Administration		Magnum Messenger
Patient Relations	EMR & Clinical Data Repository	Blood bank & Transfusion Medicine	House Keeping Services	Finance		Additional Information (AI) Editor
	Service Units	Medical Records (Dept (MRD))	Equipment Maintenance System	Responsibility Accounting		Statistical Analyser
	Integration to Drug Databases			General Ledger		
				Fixed Assets		



Description of a few modules in Magnum HIS

Patient Registration

This module captures information of patients visiting the hospital and provides a record of all the registered patients through a unique Patient Identification Number (PIN). It also captures a patient's biometric information, making the patient record more exhaustive. This module can hold demographic and vital medical and financial details, which are of long-term significance.

Appointment Scheduling

Appointment scheduling module facilitates effective scheduling of appointments of patients with the doctors. This module allows doctors and nurses to view available time slots and allocate appointments accordingly. Appointment requests can be received and scheduled / booked through direct interaction with the patient or through telephone calls.

Admission Discharge and Transfer (ADT)

The ADT module is a part of patient management and takes care of admission, discharge and the transfer process for a patient. This module tracks the movement, stay and care given to the patient. The module takes care of associated activities separately. Admission, Discharge and Transfer operate independently and interact with the relevant modules like Patient Billing, Bed / Wards Management.

Computerized Physician Order Entry (CPOE)

The CPOE module allows orders for patient services to be entered and electronically transmitted from the point where the order originates to the point of patient services, thus minimizing delays / medical errors, eliminating paper loss, and making information accessible to other providers. Order entry includes Laboratory Orders, Radiology Orders, Pharmacy Orders, Blood Bank Orders and MRD Orders for both inpatients and outpatients.

Accident and Emergency (A & E)

A & E module is meant for accident and emergency cases. It allows rapid registration with minimal required patient information. Facility of recording acute care details and notifications to police and concerned departments are also a part of this module.

Bed Management

Bed Management module allows hospital authorities to view and track the bed occupancy related operations. Bed Management governs activities like Bed Enquiry, Bed Census, and Bed Maintenance. This module helps in determining the categories of bed as ICU, Isolation, PICU, SICU, etc. It also allows attachment of various equipment to the bed such as trolley, bassinet, monitoring units, etc.



Wards Management

The Wards Management module provides nursing or ward staff the facility to manage the wards. The module manages special units like ICU and OT activities and tracks the services given to the patient in their respective wards during the in-patient episode. This module deals with consumables requests, issuing and returns, patient tracking, transfer requests and discharge.

Doctors Workbench

The Doctors Workbench is a comprehensive patient care module that tracks the episodes of care for all patients and maintains and arranges the clinical information. Doctors record clinical information, place orders for patients, prescribe drugs to the patients and update the EMR for all patient episodes using this module.

Nursing Workbench

Nursing Workbench module provides the facility for nurses to administer and maintain thorough patient care. It works in conjunction with Doctors Workbench and other departmental functions of the HIS. This module forms the core of the clinical and administrative systems of the HIS. The module enables a view of patient details via medical notes, laboratory and X-Ray results, orders from physicians pertaining to diets, patient allergies, drugs etc. All requests placed to lab and radiology departments are made available to the nursing department.

Operating Theatre (OT)

OT module tracks all surgery that takes place in the hospital. It helps in scheduling the operating theatres and surgery team and records the surgery details and all checklists associated with the surgery. This forms the basis for a Surgical Information System in Magnum.

In Vitro Fertilization (IVF)

IVF is a complete module for a fertility centre right from registration of the couples, donors to the Cryo preservation of the samples – both sperm and the Embryo. The application deals with different ART procedures where the system enables the user to define his / her protocols. This has specialized lab modules for processing the sperm (Andrology) and Egg (embryology) modules. The list of specialized modules are – Registration (Couple & Donor), Appointment scheduling, DWB (clinical documentation), NWB, OT, Andrology (Sperm Analysis and storage), Embryology (Egg culture and embryo storage), PGD (pregenetic diagnosis).

Electronic Medical Record (EMR)

EMR is the central repository of the entire medical records of the patient. It

stores data in an organized and structured manner so that a clinician or any other clinical user easily accesses clinical data based on his/her role, security rights and needs. The EMR generated by Magnum captures almost all the vital information needed by the carer during the course of a patient episode.

Radiology Information System (RIS)

The RIS module offers the facility to cater to all the requirements of the Radiology Department. It provides for scheduling of appointments for examinations, examination processing, reporting of post examination results and film tracking. It enables receipt of radiology test requests from clinics, wards, emergency rooms and operating theatres. There is an option for easy entry of test results or incorporation of equipment interface to automate this process and reduce human errors.



Laboratory Information Management System

The Laboratory module is a sophisticated computer data management system designed to handle a large amount of data quickly and efficiently for all pathology laboratory disciplines. Magnum allows independent operation of all laboratory sections through a single database. This concept gives each department, the flexibility to operate in a manner that suits its needs, yet allows rapid recall of all data and test results for a particular patient. Automated laboratory equipment is linked to the computer, allowing results of the routine analysis work to be transferred directly to the computer.

Pharmacy Management System

The Pharmacy module caters to drug information system and dispensation and stock control functions of the pharmacy department. As a centralized drug information system, this module maintains complete drug formulary with information on the generic name, the trade name, standard dosages, contraindications, interactions, physical and chemical characteristics, etc. It supports various drug classifications & indexes and interfaces with eBNF and other drug databases like Martindale and Drug DB.

Patient Billing

Patient Billing and Accounting module facilitates billing of the patient for all the services used by him/her in the hospital. The patient is billed according to the business rules of the hospital, which are maintained and validated through this module. It works in conjunction with Insurance, AR and GL module.

Finance

Keeping in mind the ever-growing demands & challenges faced by the finance department, the Finance module is designed as a comprehensive & integrated module enabling finance managers to efficiently manage finances of an organization. This module includes basic tools of accounting & modern analytical reports to give an edge to the department to effectively manage and control finances. It provides for all the relevant functionalities, emphasizing user friendliness and ease of operation.

Fixed Assets

Fixed assets management has become an important function in any organization. It is a comprehensive module covering all aspects of management, control & tracking of fixed assets. An automatic depreciation calculation and fixed asset register are also provided in this module.

Inventory

The inventory module includes all the business processes of inventory management in an organization. All required inventory control features such as batch & bin tracking, expired items tracking, re-order level and minimum & maximum quantities are present here.



Supply and Procurement

The Supply & Procurement module mainly deals with purchase documents in the tendering cycle. The complete purchase cycle from the purchase requisition to the procurement of goods are comprehensively covered here. Certain salient features such as sorting of vendors based on prices, configurable payment & delivery terms are also present. Sales & distribution activities, which are part of the supply module, are well defined in this module.

Forms Designer

The forms designer enables the conversion of paper-based forms of any clinical or administrative forms in the hospital into an electronic form. The electronic form can be completed by the various care providers based on their access rights to the form and

be able to forward the form for authorization from any of the relevant care providers.

Reports Designer

The Report Designer allows the right users to create new reports without having to write a single line of code ensuring that the ROI is much higher. The same holds good for, Customization, Localization, etc; Magnum HIS provides these tools so that you do not have to get back to the vendor for such changes guaranteeing your ROI and ensuring a low TCO.



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Religare Technologies delivers efficient solutions that fit client needs and help them increase productivity and boost revenue. Our optimum combination of people, processes and tools lowers IT cost while enabling the client organization to focus on its core competencies. IT Services effectively and seamlessly blends business understanding and technology expertise to deliver value.

HealthFore, the Healthcare Solutions Division of Religare Technologies, provides Healthcare IT products and services that help healthcare providers achieve business objectives while providing quality patient care. It also focuses on creating innovative solutions and platforms that makes healthcare information available to the consumers to provide them with continuum care, 24x7. All these offerings are backed by our extensive technology & domain knowledge, rigorous adherence to global standards and a global delivery experience.

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