

Hospital Information System



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LUMINEUX HIS (Hospital Information Systems) offers functionality that covers the entire gamut of hospital activities. Lumineux believes that each hospital is unique in its requirements and priorities. Hence our offering, LUMINEUX HIS provides flexibility to the hospitals, whether large or medium sized, to choose from various modules to match their specific needs.

Lumineux HIS is an integrated Hospital Information System integrated the areas of Registration & Information, OPD, Inpatient, Emergency, Pharmacy, Pathology, Radiology, Procurement, Medical/General Store, Billing, Financial Accounting, Fixed Assets, MIS & Research and User Administration etc. enables on-line sharing of information which make extension of the existing system to ICU and wards possible, whereby test results can be made available on-line enabling prompt remedial action by doctors.

Modularity

LUMINEUX HIS is a comprehensive package that includes various modules which cater to different functional areas of healthcare institutions. LUMINEUX HIS offers you the flexibility to choose and implement only those modules which are required for your institution

User Friendliness

LUMINEUX HIS is extremely easy to use because of the extensive assistance provided during any and all data entry operations. The package is menu-driven, and help is provided for screens. A comprehensive user's manual, detailing different procedures for various tasks, is also provided.

Graphical User Interface (GUI)

LUMINEUX HIS' Graphical User Interface enhances all the user friendly features of the system. The point and click features of the mouse reduces excessive usage of the keyboard, thus making most tasks easy-to-do and hassle free. This saves time and makes information easy to store and easy to access when required.

Security

One of the major concerns of most hospitals is confidentiality of reports and records. Because of the sheer size and magnitude of patients data, this is anything but an easy task. LUMINEUX HIS, provides multiple levels of security in the software, so that data pertaining to various functions of the hospital remains confidential.

LUMINEUX HIS is developed on latest relational database technology (Oracle 9i and Developer 6i). This ensures that data is secured and can be recovered in case of a system failure. LUMINEUX HIS can also be deployed as a web-based application by using Forms Server, without any changes to the application.

Hospitals are very expensive to build and to operate. Administrators and professionals have to be extremely cost conscious. Effective computerized systems and procedures need to be implemented to ensure proper utilization of limited resources toward quality health care. Some of the major factors determining the effectiveness of a health institution include patient care management and patient satisfaction.

OUTLINE OF THE BASIC FUNCTIONAL COVERAGE

Registration & Information

- Inpatient Registration
- Outpatient Registration
- Patient Demography
- Allocation of Patient ID
- Real-time Patient Tracing

Out Patient (OPD)

- Consultants Duty Roaster
- Appointment Scheduling/Rescheduling
- Doctor's Schedule
- Patient Visit Slip
- Online Prescription
- Online Investigation Request
- Online Admission Request
- Patient Visit History

Inpatient

- Admissions and discharges or transfers
- Allocation of accommodation
- Automatic cost calculation
- Integrated with all other related module
- Automatic treatments record keeping
- Online investigation/medicine request
- Birth and death records maintenance
- On-line enquiry facility
- Daily bed availability
- Configuration of ward/cabin etc

Services

- Configuration of services
- Configuration of Package
- Visit, follow-up, review, call-on etc.
- Tariff configuration
- Revenue/Ambulance usage
- Inter-module Integration

Emergency

- Emergency Registration
- Emergency cost recording
- Transfer/Admission from Emergency
- Emergency Billing
- Inter-module Integration

Pharmacy

- Pharmacy Items Configuration
- Pharmacy Store Configuration
- Direct Sale from Pharmacy Counter
- Accounting of medicines dispensed to patients from counters maintained by automatic indenting from sub-store.
- Control of medicine over dosage and drug to drug interactions
- Issues of medicines driven by expiry of medicines and maintenance
- Automated pharmacy inventory
- Physical stock verification & adjustment
- Automatic order level monitoring
- Complete expiry management
- Online medicine issue to inpatient
- Integration with Procurement, Inventory, Inpatient, Billing and Financial Accounting modules
- Analysis of movement, consumption

Pathology

- Consolidated result entry
- Automatically assigned to the proper station and worksheets generated even for external lab.
- Computer printed stickers for samples with patient name could be printed at any location in the label sheet
- Time ranged reporting
 - STAT (within 30 min)
 - URGENT (within 2 hrs)
 - ROUTINE (normal hours)
- Real-time feedback to prevent errors and to flag CRITICAL VALUES
- Significant advantage for clinician/management consulting activities
- Ongoing assessment of quality of test results and of operator competence
- Quality Assurance Review Report
- Automatic validation of result with reference values, age & sex
- Automatic Inventory of reagents, chemicals and other consumables
- Automatic Test Segregation in Report
- Prints report in PDF, HTML format and can sent to patient through email
- Selecting all tests in panel or marker is a matter of a single tick, e.g.
 - Acute Coronary Syndrome Markers
 - Cardiac Catheterization Panel
 - CABG Panel
- Automatic/Integrated Billing & Financial Accounting module
- Instant billing for out patient
- Automatic posting to in patient billing
- Automatic Time Stamping for Test Request arrival, Specimen arrival, Results entry & printing of reports
- Test statistics, MIS Reporting on daily, monthly, yearly or periodically
- Delta Report to evaluate variation of investigation results over time
- Automatic marking of results out of reference range in test report

CallTrace (PABX)

- No user interaction require
- Automatic Call Tracing and Segregation
- Online Telephone Call record capture
- Automatic time band (Peak, Off-Peak)
- Dual billing capability
- Extension & Telephone No-ise billing
- Extension wise Usage bar to control unnecessary calls
- Integrated with hospital billing

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Streamlined Operations

- Minimized documentation and no duplication of records in different departments
- Reduced paperwork

Improved Patient Care

- Online procedures for effective and timely patient care
- Faster information flow between various departments
- Easy access to reference records

Better Administration and Control

- Availability of timely and accurate information
- Access to updated Management Information

Enhanced Fund Management

- Online information readily available on the flow of funds (advances and recoveries)

Smart Revenue Management

- Optimized bed occupancy checks
- Effective billing of various services
- Exact stock information of drugs on shelf (including their expiry dates)

Patient care management with Lumineux HIS enables fully utilized the power of computerization in Medicare, whereby network of integrated systems maintaining patient database for the hospital services in the areas of Pathology, Radiology, Medical Research, In-patient Admissions and Billing, Medical Stores & Pharmacy etc. are operational. Proper computerization enables the medics to serve their patients with a smile and to meet the corporate objective set by the founder

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Radiology

- Accounting of X-ray films
- Scheduling of appointments
- X-ray requests and result entry
- Statistical analysis of data
- Utilization versus wastage etc.
- Linked with other related modules

Procurement

- Close monitoring of inventory with the help of online stock enquiry.
- Indent data with vendor control
- Supported by VED/ABC analysis and vendor rating facility
- Supplier's Configuration
- Quotation and delivery order processing including quotation request
- Online pre-order approval
- Direct integration with related modules e.g. Pharmacy, Medicine & General Store and Accounts

Medical/General Store

- General Item indent
- Item issue and movement record
- Maintenance of general stock inventory
- Automatic order level management
- Stock adjustment
- Inter module integration

Hospital Billing

- Money receipt generation
- Instant bill calculation for paying cases.
- Instant billing of all modules
- Up-to-date Patient Account statement
- Temporary billing
- Collection and advances

Financial Accounting

- Upto 4 segment chart of accounts
- Various type of journals and voucher preparation and printing
- Accounts Receivables & Payables
- General Ledger for each segment
- Instant Trial Balance
- Instant Receipt & Payment Account
- Instant Balance Sheet
- Real-time Accounts Scheduling
- Budget Control and monitoring
- Integrated with all other modules

Fixed Assets

- Assets Identification
- Allocating depreciation
- Assets movement recording
- Assets Maintenance
- Assets revaluation
- Assets disposal
- Integration with Financial Accounting & other related modules

HR Management

- Complete Employee database
- Appointment of Doctors, nurses & staffs
- Promotion, transfer, retirement, termination
- Doctors & nurses duty management
- Complete Leave management
- Integration with Payroll System
- Disciplinary actions

Payroll System

- Automatic monthly salary processing
- Salary slip, salary statement, salary certificate and PF deduction statement
- Automatic gratuity calculation
- Automatic salary loan adjustment
- Automatic leave without pay adjustment
- Tax deduction statements
- Tax deduction certificate
- Salary disbursement instruction (for A/C Payee)
- Integration with Accounts module

MIS & Research

- Wide range of statistical analysis reports
- Various types of MIS reports
- Performance reports

User Administration

- Creating, editing, locking, unlocking user account
- Full featured user administration
- Independent module administration
- User access and privilege control
- Automatic user activity log
- Data backup and recovery

Besides aiding hospitals in various day-to-day tasks, LUMINEUX HIS also has a host of additional features benefiting the Hospitals in various areas. They are:

- Web Enablement
- Drug Database Integration
- Improvement in doctor's productivity
- Reduced patient waiting time
- Eliminating wastage of stationary
- Prompt medical attention
- Accuracy and timeliness of data
- Eliminating any possibility of mix-up of blood samples
- Authorization check & accurate instant billing
- Extending viewing & printing of test results at remote locations
- Revenue losses eliminated & Revenue savings
- Better system availability