



*Preserving Life's Most Valuable Asset...  
OUR HEALTH*

Presents

An

**INTEGRATED**  
**Operating Theater Information Management System**  
**(OTIMS)**

## INTRODUCTION

E\*HealthLine (EHL) is a pioneer within the healthcare industry in deploying a comprehensive integrated healthcare infrastructure platform and a suite of applications that facilitates and transforms the company's leading technology for the improvement and delivery of healthcare information management. The company's innovative technology enables organizations to deploy an integrated set of customer-driven best practices across the enterprise of hospitals, practice management, medical groups, managed care, MSO, IPA and health plans. Derived from over 10 years of product development, the organization possesses comprehensive knowledge of both clinical and administrative applications surrounding the healthcare enterprise. E\*HealthLine's experienced staff has provided customer deployment while fostering the specific customization functionalities/capabilities requirements for our valued clients. E\*HealthLine has documented hundreds of healthcare industry-specific "best practices", which include every aspect of the Hospital Information System, TPA System/Managed Care System, Practice Management System and the Healthcare Financial System. These standards have been directly integrated within the overall functionalities of E\*HealthLine's Applications

The E\*HealthLine System is a suite of HIPAA compliant, integrated applications designed to streamline the flow of medical information and dynamically link workflow processes. These applications are modularly designed and can be combined into unique configurations to suit customer localization requirements. The company's innovative technology interfaces with all legacy systems within the healthcare industry.

### **E\*HealthLine Solutions**

#### ***Technical, Clinical and Financial Solutions***

The EHL total solution links clinical information with financial data in core business applications and provides web-based health management tools to improve access to clinical data, helps monitor and improve outcomes, while offering overall enhancement for the patient-provider relationship.

### **E\*HealthLine Infrastructure**

1. Information Systems Planning, includes applications architecture design, Internet data center, broad band, IT staffing needs, IT performance assessments, and legacy migration plans
2. Network Re-engineering to upgrade information infrastructures and enhance the flow of patient care data over disparate provider networks
3. The E\*HealthLine System is platform independent and therefore can run on any of the following database applications *Microsoft SQL, Oracle, IBM-DB2, Sybase, or Informix*. The servers run on *Microsoft Windows, Unix and Linux* platform

## **E\*HEALTHLINE INTEGRATED OPERATING THEATER INFORMATION MANAGEMENT SYSTEM (OTIMS)**

The E\*HealthLine Operating Theater Information Management System (OTIMS) offers hospitals an integrated preoperative, intraoperative and postoperative information management system that captures clinical, administrative, and financial data on every patient event from surgery scheduling through the surgical report.

EHL-OTIMS includes scheduling, preoperative, intraoperative and postoperative nursing and anesthesia documentation, materials management, rules-based charging and surgical reports, all in real-time.

### **EHL OTIMS is a web-based application, which allows:**

- The ability to communicate real-time information to users from any location.
- Schedulers to efficiently coordinate resources for optimal utilization.
- Physicians a means to monitor patient progress from any where.

### **EHL OTIMS Features:**

#### **Scheduling**

The Scheduling Module enables users the ability to:

- Schedule and track all surgical procedures, supplies, and personnel real time.
- Effectively manage critical scheduling variables including surgeon block time availability, necessary time for procedures, special supplies required for procedures, procedure codes, surgeon privileges, and additional cases waiting for scheduling.
- Immediate scheduling of surgical procedures from any where.
- Utilize Procedure Preference Cards to manage surgeon's preferences for case staffing, materials, equipment, implants, instructions, and room setup.

#### **Key Benefits:**

- Increased flexibility and adaptability by accommodating multiple procedures and numerous surgeons.
- Greater efficiency,
- Real-time conflict checking on all case resources.
- Increased utilization of resources, including monitoring cancellation and rescheduling of cases and reallocating resources accordingly.
- Efficient distribution of staff, rooms, and supplies.

## Staff Scheduling

EHL's Staff Scheduling module is a comprehensive resource management tool specifically designed to meet the unique staff scheduling requirements of the hospital surgical department. Staff Scheduling enables surgical departments immediate access to required information while providing cost-effective and skill-appropriate staffing and scheduling decisions.

### Staff Scheduling Functions and Features

#### Personnel Management

- Distinct personnel profiles track unlimited data and activity for each employee
- Complete history of all transactions
- Time and attendance reporting
- License renewal and certification expiration tracking

#### Employee Scheduling

- Ability to quickly select the appropriate medial personnel when time is of the essence
- Unlimited scheduling periods, color-coded schedule codes
- Real-time scheduling and conflict checking regarding availability, skill level and credentials
- Ability to create "on call" schedules
- Forecasting of staffing requirements aligned with available staffing

## Nursing

The Preadmission Module allows users to:

- Document all data gathered in patient screenings and interviews prior to the day of surgery.

The Nursing Preop Module allows users to:

- Collect and record pre-surgery information regarding nursing assessments, medication history, pre-existing conditions, prior anesthesia and surgical history, family history, lab results, and further information on the actual day of surgery.

The Nursing Intraop Module allows users to:

- Provides complete electronic patient records for surgery.
- Personalize screens to adapt to a hospital's current documentation standards.
- Capture information on procedures, personnel, material usage, all case times, counts, diagnosis, drugs, including every event/action that occurs during a case.
- Utilize special modular options for Cardiovascular, Pediatric, and Same Day cases. The system matches the specific requirements of each case type.

The Nursing Postop or PACU Module allows the user to:

- Document recovery scores, materials usage, criteria-based discharges, drug responses, surgical return statistics, vital signs, pain score calculations, and all other important data following surgery.

The QA/Follow-Up Module allows the user to:

- Measure post-surgery outcomes.
- Devise and administer surveys for Quality Assurance purposes.

Unique Clinical Assistant is a tool that allows the user to:

- "Chart by exception" with the activation of a single button.
- Model established Clinical Pathways enables the selection of default values, timed events, specific fields, etc. with a single keystroke.

#### **Key Benefits:**

- Efficient capture of all clinical, financial, patient, and administrative data.
- Ability to change screens to meet with the hospital's data collection requirements.
- Documents conform to AORN Preoperative Nursing Data Set (PNDS) standards.
- Provides Clinical Assistant to standardize documents and complete multiple functions with a single click of the mouse.
- Monitor nursing assessments and care plans.
- Track actual care events for comparison with projected/planned results.
- Access to reports detailing procedure cost, surgeon cost, scheduling daily activity and canceled cases.
- Reduction of incomplete or inaccurate documentation.
- Create and use Clinical Pathways to allow healthcare providers to reduce variability in practice patterns, control costs, and promote patient care.

#### **Anesthesia**

The Anesthesia Preop Module allows the user to:

- Collect and record information on nurse assessment, medical history, respiratory and cardiovascular function, relevant medical conditions, previous anesthesia history, anesthesia plans, family history, lab results, and plan of care established for patient.

The Anesthesia Intraop Module allows the user to:

- Obtain a real-time view of patient's physiological condition.
- Simultaneously monitor up to 125 vital signs directly from patient monitoring devices.
- View information in either tabular or graphical format.
- Record patient reaction to drugs, medications, or anesthesia agents.
- Summarize anesthesia events during surgery to better manage patient care.

The Anesthesia Postop or PACU Module allows the user to:

- Document events and patient care information (i.e. vital signs, recovery scores, material usage, discharge information, etc.) during patient recovery period.
- Import demographic, allergy, or other patient data from other modules to minimize redundancy.
- Use Charting Wizard to automate data collection and administer time-dictated events such as recording vital signs or administering medication.

**Key Benefits:**

- Capture all clinical, financial, cost, and administrative data for the anesthesia record.
- Personalize screens to match anesthesiologist's data collection needs.
- Conduct rapid preadmissions screenings and interviews to capture all relevant patient data (i.e. allergies, surgical history, physical assessment, diagnosis, etc.).
- Track actual care events for comparison with projected/planned results.
- Integrate anesthesia information with the rest of the surgical case.
- Generate a hospital-defined printed anesthesia record

**Surgeon's Reports**

- Patient charting through complete integration with preadmission, pre-op, intra-op, and post-op modules.
- Capture information from any care event along the preoperative continuum.
- Generate surgeon's operative notes immediately after surgery.
- Utilize built-in standard templates for use with common cases.
- Personalize transcription templates to provide surgeons and hospitals with control and flexibility.

**Key Benefits:**

- Significant reduction in transcription costs.
- Faster completion of medical records.
- Improved surgeon satisfaction.
- Faster and more accurate generation of patient bills.

## Inventory Control

The Inventory Control Module enables the user to:

- Efficiently maintain multiple supply locations, vendors, and cost centers.
- Track consignments.
- Support numerous bin locations for all items.
- Sustain multiple site designations for materials and supplies.
- Monitor inventory used as well as inventory wasted.
- Maintain perpetual inventory by tracking on-hand quantities as cases are performed.
- Generate requisitions based on par levels and on-hand quantities.
- Organize pick lists based on inventory locations.
- Generate count sheets, supply reports, and requisition reports.
- Interface with hand-held devices and bar code readers to get accurate physical counts.
- Support bundled items such as trays, packs, or unitized delivery systems.

### Key Benefits:

- Access to rapid, accurate, and readily available information to maintain lower on-hand quantities without stock outs.
- Lower supply costs due to smaller amount of unused materials in your supply areas.
- Precise inventory control at each location.
- Reduction of non-clinical time a staff member spends managing inventory.
- Ability to print real-time reports detailing cost, most frequently used materials, baseline inventory, count sheets, current stocks, and forecasts of required supplies based on scheduled cases.
- Accurate purchase, price, and volume history for vendors, items, and items categories.
- Comparison of planned inventory usage to actual usage.
- Rapid ordering through the ability to process one selection that bundles several materials together.
- Flexibility to personalize desired inventory style (par level, or just-in-time).

## Reports

The Reporting Module enables the user to:

- Generate over 100 standard reports covering clinical, financial, and process data from all aspects of the surgery department.
- View data in a personalized format.

- Create new reports, modify standard suite reports, export data, and/or generate graphical reports.
- Generate executive reports that focus on summary information such as average cost per case, payer summary, and top 25 surgeons by revenue, etc.
- Construct management reports that are designed to assist with OR management decisions including resource allocation, quality improvement, room utilization, etc.
- Create process reports that deal with day-to-day operational issues including scheduling, cancelled case listings, preference cards, etc.
- Produce clinical reports that become part of the patient's permanent operative record. These reports can be structured to specifically meet each facility's hospital and state documentation requirements.
- Interface with Microsoft Excel and Access to enhance the analytical and graphing capabilities.

**Key Benefits:**

- Access and view information that users need to lower costs, improve process, increase revenues, and improve patient care in a format that is most suitable.
- Schedule reports run automatically based on a particular event including patient discharge. The reports are also provided on a daily, weekly, and monthly basis.
- Manipulate data creates statistical analysis and/or graphic intensive reports

## Rules-Based Charging

The Rules Based Charging Module allows the user to:

- Charge based on time or procedure, or a combination of both time and procedure.
- Change the "charge" interface (without relying on the vendor to change it). As a result, the change becomes effective immediately.
- Combine numerous variables (payer, OR time, anesthesia time, flat rate, admission type, anesthesia type, procedure, facility, severity, room, service) to generate charges for a case.
- Support Ambulatory Procedure Codes (APCs).

**Key Benefits:**

- Effectively manage payer contracts to insure proper reimbursement.
- Immediate billing of closed cases.
- Follow all charging policies or reimbursement procedures while increasing revenue.
- Eliminate lost charges.
- Through HL7 interfaces to the hospital financial system, all of the captured data is automatically communicated daily. This facilitates faster creation of patient bills and reduces data entry time and errors.
- Reassignment of personnel previously dedicated to manual charge and data entry duties.





**“Specializing In The Standardization Of Global Healthcare Management”**

**AN INNOVATIVE HEALTHCARE INFORMATION INFRASTRUCTURE ENABLING AN  
INTERNET WEB ENVIRONMENT, WHICH EMBODIES THE NEW PARADIGM OF  
HEALTHCARE APPLICATIONS WITH REALITY-BASED INTERFACES.**

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