



Medineed Health Journal

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On behalf of Suvarna Technosoft, we wish you a very happy and prosperous 2010. We would like to present with great pleasure, the first edition of the Suvarna's Medineed Health Journal. **In these monthly journals, we would be focusing on the various aspects of the healthcare software industry and its related developments and enlighten our readers on a wide range of topics which are industry centric and add value in their day to day work scope.** Our endeavor is to make these newsletters highly informative and enlightening for we would be focusing on the specific challenges faced by the healthcare industry and enlighten our readers about one healthcare standard every month.

Introduction



The healthcare industry in India is growing at a very rapid pace with tremendous expansion potential which is still left to be tapped. Indian Hospitals are already catering to the specialty needs of an international clientele of patients, due the growth of the healthcare tourism sector which is being viewed as a viable income generator for our country. The pressing need to optimize and enhance hospital service functions and efficiency metrics to meet international standards is the need of the present hour. At Suvarna, we are pushing the envelope in terms of technology development and implementation of our Healthcare software products to meet the globalized needs of patients and healthcare service providers.

We welcome your critical feedback on our humble attempt to serve the healthcare industry better. Your comments and suggestions would go a long way in helping us improve our Suvarna Medineed Health Journal and make it more informative and relevant to ever changing industry needs.

Warm Regards,
T.S Suresh

Auto piloting hospital management
Do your hospital run at 100% efficiency?
Redefining efficiency in your hospital workflow
Managing your hospital is now your lowest priority
Simplifying complex hospital management requirements
Do you feel your hospital is good?, We will make it the best
Diverse hospital problems, need only one single solution: Suvarna HIMS

Hospital Information Management System

Brings the best technology available today.
Cost control and improved profitability.
Enhanced Administration and control.
Improved response to patient care.
Solutions for hospitals of any size.



Versions
Lite
Basic
Standard
Enterprise

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Technosoft Pvt Ltd
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HELPING YOUR HOSPITAL TO MANAGE ITSELF

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Section 01-Industry Problems & Solutions

Does your Hospital Management System use a powerful stores and pharmacy management system?



Modern hospitals handle large volumes of inventory on a daily basis. A large number of items are procured and issued to various departments across the hospital and it is essential that this process must be monitored and tracked on a constant and consistent basis. Having an effective stores and pharmacy management system which tightly integrates with the Hospital management modules has become a dire necessity for any modern hospital.

Hospital consumables account for over one-third of the entire cash revenue generated within a hospital. Some of the benefits of having a powerful stores and pharmacy management module include:

Tighter control on the Inflow and Outflow of Stores

A dedicated inventory system is critical to ensure tight control on the inflow and outflow of stores within a hospital. It is always advisable to choose a Hospital Management System which integrates barcode scanning and integration which improves stores management and reduces manpower costs. Our advanced inventory management systems now also support the integration of RFID tags for tracking high value durable items which are used across the hospital domain.

Enhanced Information Security

Hospital stores have a large amount of stock of substantial monetary value at any point of time at their disposal. To ensure proper accounting of these stock items, access to the stores information must be delegated only to authorized personal. Suvarna uses advanced security algorithms in its inventory modules and works on a hierarchical method of user level control. A robust audit trail is also built into our inventory modules, which logs and detects unauthorized access or tampering of sensitive stock information within the hospital information system. Tiered access is also provided to enable specific user privileges to be assigned and thereby selectively restrict the amount of access which end users have on the inventory module.

Stock Requisition Planning

Hospital's need to continuously replenish and monitor the amount of stocks for critical and life saving items on a regular basis. Manual stock accounting and requisition planning is a process which is fraught with error and prone to mismanagement. The Suvarna inventory management system automates the various aspects of stock requisition planning and forecasting. Diverse functionalities can be configured based on user requirements to set stock alert's or perform one click purchase order generation for procurement. These processes reduce the manpower required for stock management and ensure timely replenishment of every item used in the hospital store or pharmacy.



Reduced Wastage

In a typical hospital scenario, a large amount of wastage occurs due to non utilization of indented items or due to errors in the process of material procurement and issue. A large number of these errors occur due to the lack of streamlining the entire inventory management process. We have built various advanced features into our Inventory modules which are designed to seamlessly integrate with our hospital management system software. The combined use of RFID, Barcode and handheld PDA devices which are integrated on a common data platform is a critical element to streamline and reduce the error levels which occur in a typical inventory scenario. Comprehensive tracking of item returns ensures that there is no wastage of stock. Our software provides a wide range of features to prevent the wrong issue of a particular item by cross verification with the indent placement system which is used either by the doctor or a duty nurse.

Simplified Stock Reporting

Stock reporting and accounting is done on a regular basis by the stores and pharmacy in a hospital. This processes is generally performed by manual methods which is time consuming and prone to error. Our advanced Inventory management modules have simplified this entire exercise to just a few clicks. Hospitals can now rapidly tally and generate inventory and store reports in a matter of minutes, which would have consumed many days when performed manually.

In our next issue, we would be highlighting the importance of Barcode integration in a hospital software system.

Section 02-Industry Standards

An Overview of the HL-7 Standard

This section gives a broad overview of the Health Level Seven (HL-7) standards used in the healthcare industry today.

The HL7 standard consists of various sub level standards which used in the healthcare industry. These were first formulated in the year 1987 in the United States. The HL-7 standard is now globally accepted and embraced by the medical community. The HL-7 standard comprises of many segments which are cohesively integrated. Some of the key segments of the HL-7 Standard are listed below:



Clinical Document Architecture

The Clinical Document Architecture(CDA) which is currently at version 2.0 is an advanced architecture model which defines the interchangeability standards between various clinical records. Based on the XML standard, the CDA architecture makes documents both machine and human friendly. Any XML compatible browser can be integrated to view these documents which includes personal computers and mobile phone applications.

Electronic Health Record

The HL7 Electronic Health Record(EHR) is a critical element to ensure consistent system functionality. These electronic health records build functional profiles and establish a common base for the services which are present across the hospital environment. Hospitals which move towards a totally paperless healthcare management process can tightly integrate the EHR standard to get a single click display of patient histories and improve patient treatment and satisfaction levels.



Structured Product Labeling

Structured Product Labeling(SPL) is an evolved standard within the HL7 specification. This standard complements the Clinical Document Architecture in providing the user information on a drug and its treatment applications. The SPL standard address the requirements of the semantics which are required to provide drug related information for the patient or the doctor

Claims Attachment



This standard is defined to exchange information in an electronic format which augments the information related to a healthcare transaction. These documents are essential for processing insurance based claims which are a critical aspect of healthcare. The Claims Attachment standards aim to streamline and unify the various processes of submitting and adjudicating healthcare claims.

CCOW/Visual Integration



The CCOW standard defines the interoperability specification for integrating various workflows that are required in a computer user session. Synchronization of data flow across various applications on a presentation level is achieved through this standard. Version 1.5 of this standard specifies the various parameters which are required for temporary context based synchronization.

Version 3 Messaging Standard



The message standard defines the communication received and produced by computer systems in the network. Payload management, message wrapping and model message payloads have been defined for specifying the various transactions occurring within the specific domain. These are based and derived form the HL7, V3 foundation modules,

Every HIMS product which Suvarna develops meets and exceeds these standards which are laid down by industry bodies. The next issue would contain more information on the various healthcare standards used in the industry.

Section 03-Celebrating Medicine

Medical day of the month

Psychiatric Technician's Day – Jan 16th

This day is dedicated to honor all the psychiatric technicians who perform their duties in a selfless manner and help thousands of patients across the world make their lives happier and healthier. The role of a psychiatric technician is a complex one and this short article would throw some light on their services.



The role of a psychiatric technician covers the following areas:

- 1.Nursing procedures.
- 2.Medication admission.
- 3.Treatment management.
- 4.Data collection.
- 5.Plan, implement and evaluate treatment procedures.
- 6.Using various behavioral management techniques.
- 7.Teaching various types of day to day skills to patients.
- 8.Teaching patients the nuances of social skills and interaction.
- 9.Empower patients with various vocational skills for a living.
- 10.Educating patients and family about various psychiatric conditions.
- 11.Case Management tasks.
- 12.Playing a very active role in the quality assurance process.

Additionally, Psychiatric Technicians assists patient with mental and developmental disabilities to gain a certain level of independence through training and assistance. These services are an invaluable part of a psychiatric patient's growth process. Psychiatric technicians implement various types of behavior, somatic and psychoanalytic approaches to help understand and solve patient's problems and reduce their isolation.



The Qualifications required to become a Psychiatric Technician

Psychiatric technicians need a wide range of skills to be able serve various kinds of patients who face various types of psychiatric challenges. The qualifications required to become a psychiatric technician include a basic degree in nursing after which the incumbent must undergo a compulsory training and certification program to work as a junior psychiatric technician. After successfully completing one year as junior psychiatric technician, the incumbent is eligible for a senior role. Certain institutions insist on the clearing a particular level of tests which have various levels of complexity depending on the seniority of the technician.

Career prospects for psychiatric technicians

Psychiatric technicians play a very critical role in the healthcare segment in treating people with mental disabilities. It is expected that this market would grow by over 28% a year and provide highly rewarding job opportunities to medical professionals who wish to choose this line of profession. People who have a patient attitude and ability to deal with challenges grow rapidly in this field and can reach senior psychiatric technician positions in a few years time. As the understanding of mental health treatment increases, there would a steady demand for highly specialized and skilled psychiatric technicians to serve patients and improve their well being.



Section 04-Healthcare One On One

Major Healthcare expos and conferences occurring in India during February 2010

International Health Expo and Conferences 2010

Exhibition Grounds,
Chandigarh, India.
Dates-05th to 08th of February 2010
Website-www.healthexposindia.com

Asia Healthcare Congress India 2010

Hyatt Regency, Mumbai, India.
Dates-08th to 11th February 2010
Website-www.ihc-asia.com/asiahealth
Phone-+65-6732-1970.
Phone-+91-172-4699301-02.

INDIA LAB EXPO 2010

Pragati Maidan, New Delhi India.
Dates-11th to 13th of February 2010
Website-www.indialabexpo.com
Phone-+91-11-27604500.

Medical 2010

Hyderabad, India
Dates-Postponed (Aug 6th to 8th 2010)
Phone-+91-44-32516661
Website-www.medical.in

Meditec Clinika 2010

Chennai Trade Center, Chennai
Dates-26th to 28th of February 2010
Phone-+91-22-24197420
Website- www.meditec-clinika.com

IPC-USP 2010

Hyatt Regency, Mumbai, India.
Dates-17th to 19th of February 2010
Phone-+91-22-24944624
Website-www.idma-assn.org

Indian Medical Device & Plastic Disposables Industry 2010

Ahmedabad Management Association, (AMA) Complex ,
Ahmedabad, India
Dates- 19th to 20th of February 2010
Phone-+91-79-26740611,
Website-www.imdiconferences.com



Payroll Management

- Employee joining and relieving information
- Job profile and performance calculation
- Employee loan and appraisal management
- Customized Salary Structure calculation
- Minimal data entry
- Generates bank disbursement file for salary
- Custom payslip layout
- User Defined Salary Heads and accounts
- Leave management
- Employee Loan and Arrears recovery
- Employee time and attendance
- Gratuity, Final Settlement calculations
- Calculates ESIC Amounts
- Processing for Form 3,5,6A,10,10C,12A,19,24



- Calculates PF and PT values
- TDS Calculation
- Generates form 16,16AA,12BA
- Generates quarterly TDS form 27A
- Can be updated for latest statutory changes
- Custom designed user report generation
- MIS system integration and reporting

Document Management System

Suvarna's Document Management Systems are effective IT solutions which manage all your paper documents in a paperless format. Store, retrieve, reproduce and control the flow of various documents in your organization. Create a truly paperless document environment which can be managed with just a few mouse clicks.

Make the transition from a paper to paperless environment using the following features of our Document Management System.

- Effectively cleanup scanned documents
- Insert various types of Image format codes
- Automated backups ensure total data safety
- Insert security watermarks in scanned documents
- Capture paper documents using our OCR technology
- Create document indexes and add relevant metadata
- Easily manage various versions of a single document
- Track the access to your documents through an audit trail
- Automatically import existing documents from various sources
- Authorize and restrict document access depending on the users
- Search and sort your files based on various user defined criteria
- Helps you automatically file and store documents based on groups
- Powerful compression reduces file sizes and saves you storage space





Medineed Health Journal

Hospital Information Management System

Healthcare IT Solutions to remove the worries of hospital management

Designed to optimize your hospital's efficiency and simplify hospital workflows, our healthcare IT solutions manage every aspect of your hospital.

We help you concentrate on what you do best, i.e providing quality patient care.



Some of the modules, we provide in our Medineed HIMS system include

- | | |
|---------------------|-------------------------------------|
| Front Office | HR and Payroll |
| Doctor Desk | Laboratory(LIS) |
| Diet Modules | Master Manager |
| OP & IP Billing | Operation Theatre |
| Security Module | Discharge Summaries |
| Patient Manager | Custom Report Builder |
| Medical Records | Equipment maintenance |
| Purchase modules | Medical and General Stores |
| ICD Coding System | Hospital Asset management |
| Doctor Appointments | DICOM viewer, PACS & Tele Radiology |

and over 30 more modules for your diverse needs.

Medineed is now available in **Lite, Basic, Standard, Enterprise versions.**

To know more visit, <http://www.suvarnaa.com/InnovativeSolutions/Medineed.aspx>.

Advantages

- Streamlines workflow operations to improve administration
- Enhances the quality of patient care to boost revenues
- Unified hospital supply chain management and control
- Maximizing resource utilization across all hospital departments

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We would love to hear what you think about our newsletter. For any feedback or suggestions, kindly email us at contact@suvarnaa.com

TO



HELPING YOUR HOSPITAL TO MANAGE ITSELF

• HIMS • DMS • Payroll