Pharmacy and Inventory Management System (PIMS) is a module of Eutech’s Copernicus™ Healthcare Product Suite.

PIMS is a synergetic combination of four distinct functions that are vital to a hospital pharmacy - Dispensing, Billing, Purchasing and Inventory. With emphasis on a decentralized workflow for front counter operations and a centralized back-office, it can be readily integrated with outpatient clinic information system.

Modern healthcare establishments demand speed and accuracy from their front-end or counter operations. PIMS provides these advantages in the form of improved and efficient workflow for the pharmacy department. The deployment of the system results in an efficient workflow with quick patient turnaround.

The Patient Registration module allows the user to retrieve existing patient information from the designated patient master database. It also allows new patient information to be created which would then get updated into the same database. The patient master database holds all relevant patient information, which can be retrieved by all the integrated systems in the hospital.

Drug Dispensing
PIMS allows dispensing drugs for inpatients, outpatients or external prescriptions. It uses a unique prescription number, which is bound to patient’s identity to keep track of the prescriptions within the system. The user can pre-configure a set of codes for commonly used medication usage and dosage instructions. These codes come in handy by speeding up prescription data entry.

Some of the other facilities of Dispensing module include:
- Flags medical conditions & drug allergies of the patient
- Tracks Partial Prescriptions
- Maintains patient medication history
- Notifies when stock levels go below certain limits

Dispensed prescription details flow through to the Billing module or to any HIS as the case may be.

Pharmacy Billing
This module is designed for streamlining pharmacy’s billing activities. It allows billing prescription, retail & rental transactions. PIMS is capable of handling complex discounts and subsidy schemes that depend on various factors such as payment classes, patient types, episode types, drug items and durations. The billing module accepts common payment methods including cash, cheques, credit cards, benefit cards, AR (Account Receivable) and more.

The module automatically prints the bill invoice, the layout of which can be customized from the back-end.

PIMS provides facilities to handle goods returns & refunds, walk-offs and Billing-Counter operations.
Purchase Request
Purchase Request module enables stores and departments to raise Purchase Request for items that need to be replenished. Request can be raised automatically based on the re-order level. Items can further be added to the Purchase Request list manually. Purchase Request Approver approves the Request and the document is forwarded to Purchase Order (PO) Requestor.

Purchase Order
Generating a PO is a breeze since most of the data is available on the screen, retrieved from the master files of drugs and suppliers maintained in the system. PO Requestor gets a list of consolidated Purchase Requests for approval and creates PO formulation document.

After Purchase Orders are submitted for approval, emails are sent to users about the document to be approved. Approvals can be performed only by users who possess sufficient privileges. Approval levels are defined for each PO types, for different slabs of PO $ value.

After the approval, the PO is printed and sent out to the supplier.

Goods Receipt
When the supplier provides items against the purchase order, appropriate staff verifies the items, and enters the details of items into the system. The system updates the purchase order with the items received.

PMS supports handling bonus stocks.

Stock Transfer
Another feature of the Inventory system is the Stock Transfer option, which allows the user to transfer stocks from different stores. It allows easy manageability of multiple stocks and also allows the easy handling of insufficient stocks in particular stores.

PMS supports the following costing methods:
- Weighted average costing
- FIFO
- Batch pricing

Statistical Reports

Pharmacy Reports
- Drug Prescription by Doctor
- List of Drugs Dispensed
- Inpatient Medication Dispensed/Returned
- Pharmacy Revenue Document
- Prescription Retail Sales (Summary/Detailed)
- Revenue Discrepancy List
- Revenue by Payment Method
- Consumption of Antibiotics
- Sales History Report
- Sales Report by Commodity Class
- Audit Trail – Customer Sales/Return
- PH to GL Finance

Pharmacy Transaction Reports
- Medicine Label
- Patient Bill
- Counter Collection Report

Inventory Reports
- Item Master
- Stock Balance
- Stock Movement
- Reorder Qty v/s Qty On Hand
- Slow Moving Stock
- List Price
- Department Issues
- Transactions
- Stock Ageing
- Purchase History
- Issues History
- Department Issues History
- Inventory to GL
- Audit Trail Reports
- Top 20 Drugs

Purchase Order Reports
- Purchase Order Report
- Supplier Details Report
- Supplier Delivery Report
- Daily Receipts
- Item Version
- Price Comparison
- Outstanding Purchase Order
- Input GST Audit
- Receipt History
- Cash Requirements
- List Price Buffer
Pharmacy Workflow

The patient consults a doctor and receives a prescription. The patient goes to the Pharmacy to collect the drugs.

Patient details and visit details are loaded in PIMS. Drug details are entered and finalised. PIMS prints medication labels and sends the prescription details to Billing module.

Before billing transactions can be done, the counter has to be open in PIMS. Counter is a unique ID for the billing terminal and it helps tracking bill collection. At day end, the counter would be closed and reconciliation would be done.

Prescription details are loaded. The patient may add retail items to the same bill. The bill is finalised. The patient pays for the items. PIMS issues a receipt to the patient.

Inventory Workflow

When inventory level of an item goes beyond a pre-configured value, PIMS sends a notification to the user requesting to replenish the item.

The user creates a purchase order (PO) for required item. The user may add multiple items to the same PO.

Once the purchase order is approved and sent to the supplier, next step is to wait for the supplier to deliver the goods.

A Goods Receipt is created in PIMS based on the purchase order.

Purchase Request

Supplier

Purchase Order Module

The Purchase Order is sent to the supplier

The supplier delivers the goods to the pharmacy

Stock Transfer Module

This module allows transferring stocks between different stores in the hospital

Once the goods are received, multiple processes can be done. For an example, stock transfer to other stores

Goods Receipt Module
Key Features
Among the key features of the PIMS system are:

- Tight integration of dispensing, billing, purchasing & inventory workflows
- Supports sale of retail & prescription items as well as rental items
- Tracking partial prescriptions
- Bar Code printing and reading wherever possible e.g Prescription number
- Role and User based security and access rights
- Suport different costing methods & discount/subsidy methods
- Audit trials
- User customisable reports

Benefits
Some of the benefits of the PIMS system include:

- Reduces prescription handling time
- Manages patient's medication history
- Lists patient walkoff cases
- Structured method of dispensing and billing
- Reduces patient medication collection waiting time
- Flexible according to user’s requirements
- Customisable
- Integration with other products in Copernicus™ suite

Other modules in Copernicus™ Suite
- Hospital Information System
- Specialist Outpatient Clinic Information System
- Accident & Emergency System
- Mammography System
- Operating Room Scheduling System
- Clinical Workstation System
- Electronic Medical Records
- Generic HL7 Engine

For more details on Copernicus™ and Eutech’s client references contact:
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