



HMIS

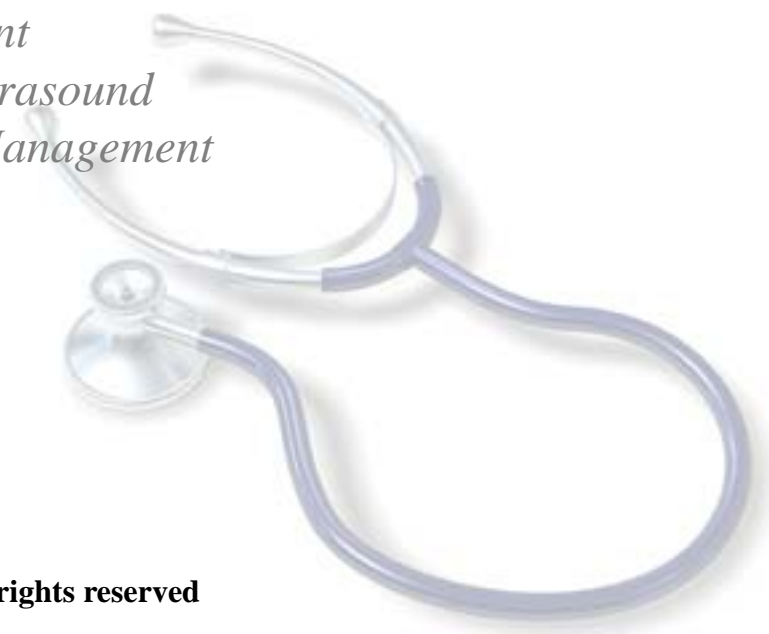
Hospital Management Information System

CONTENTS

- ❑ *Overview of HMIS*

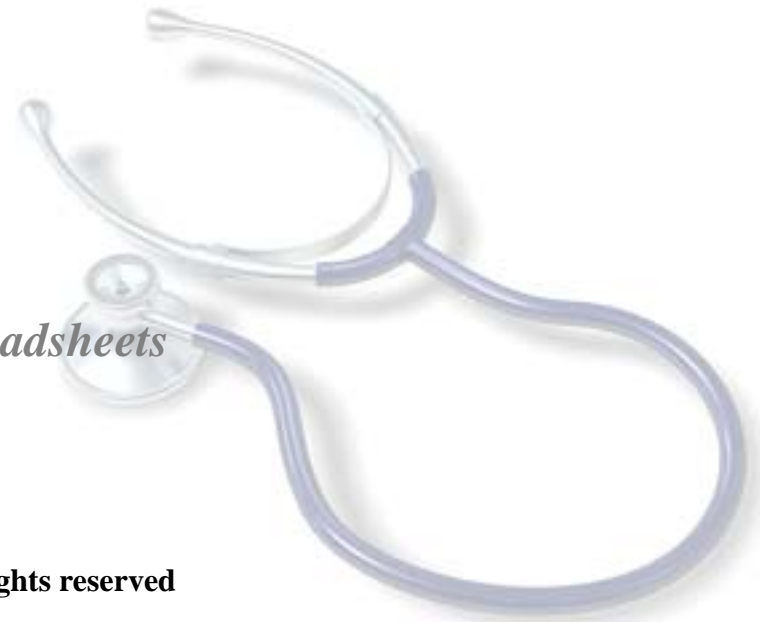
- ❑ *Functional Areas*

- *Patient Registration & Services Offered*
- *OPD / Cash Management*
- *Laboratory / X-ray / Ultrasound*
- *Pharmacy / Inventory Management*
- *Bed Management*
- *Operation Theater*
- *Human Resource*
- *Billing & Finance*



HMIS OVERVIEW

- Panel of Domain Experts*
- Multiple Integrated Modules (pick and choose)*
- 3 years Design & Development*
- 190 Screens 206 Tables 200+ Reports*
- Platform: C# .NET Data Base: SQL Server*
- Data Migration utility using MS Excel spreadsheets*



HMIS OVERVIEW

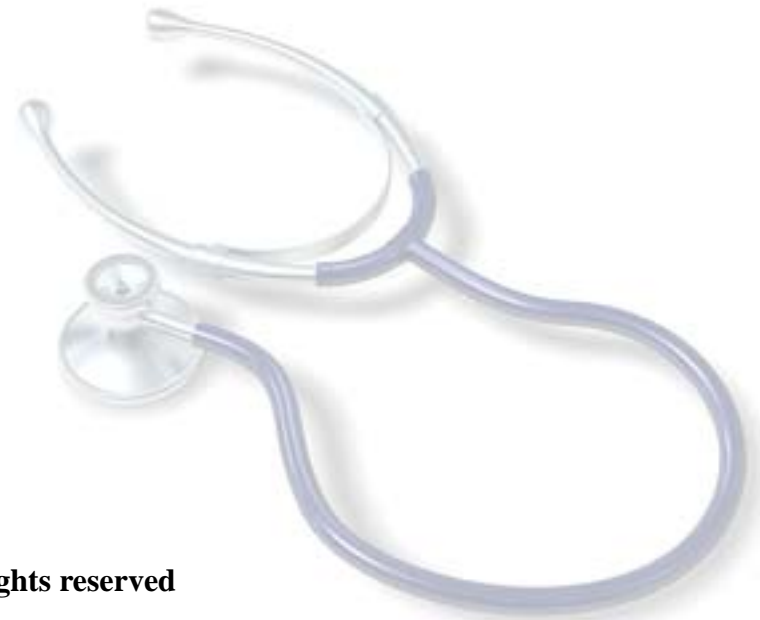
- ❑ *PASHA ICT AWARD 2006*

- ❑ *References:*
 - *Ibn-e-Seena Medical Complex*
 - *Haleema Hospital, HUB*
 - *Bait-ul-Sukoon Cancer Hospital*
 - *Fatimiyah Hospital*

- ❑ *Powerful Security Features & Audit Trail*

- ❑ *Start from simple system and grow with it*

- ❑ *Suitable for large hospital or small clinic*



HMIS Functional Summary - Patient Care System

- Simple ONCE-ONLY patient registration procedure or Walk-In registration*
- Multiple OPD counters*
May offer all or selected services
- Accountability for each user*
- Powerful Cash Management*
- Daily Sales Reports*
- Simple to use screens*
You only see what you need to see for doing your work
- Hard copy slips / Receipts with hospital logo*





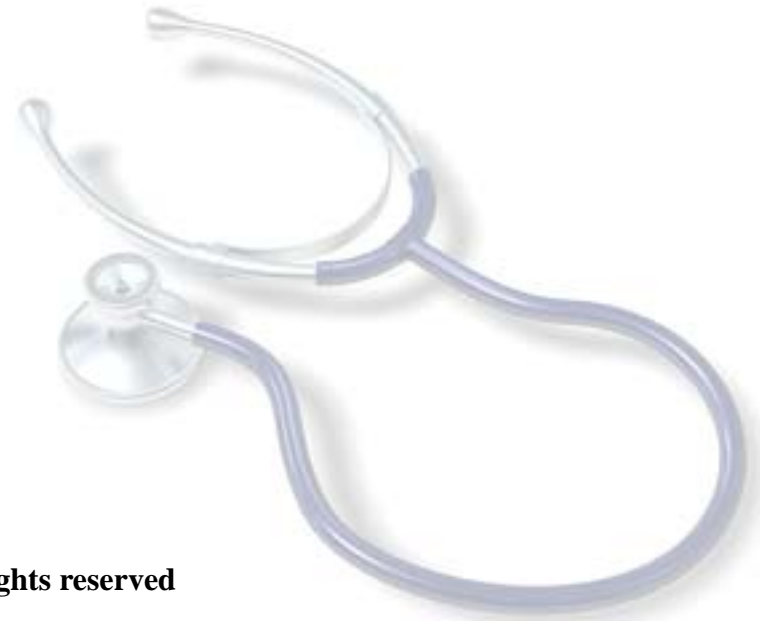
HMIS Functional Summary - Patient Care System

- Hospital sets its own services and their Rates*
- Special Rates can be set for each Client + override feature*
- Consultant Share can be set + override*
- Consultant OPD Schedule + Appointments*
- Detailed Patient Medical Records automatically maintained for:
Laboratory Tests, Bed usage, Any Services used, Pharmacy items,
Prescriptions (if entered), 3-Vitals (if entered)*
- Patient Financial Record Auto-maintained*



HMIS Functional Summary - Patient Care System

- Powerful on-screen or printed reports accessible ONLY to those allowed access*
- Finance Department*
- Cashier report / cash and credit report*
- Sales report by shift / employee / dept.*
- Patient charges summary*
- Patient Bill*
- Historical data can be searched*





HMIS Functional Summary - Laboratory / X-ray / Ultrasound

- Any Test can be specified; its price & time set*
- Any measurement parameters can be specified for a Test including standard readings*
- Various standard report formats can be set for a Test*
- Completely linked process:*
 - Test registration, payment, sample collection, data entry of lab measurements / consultant report, printing of Test report, medical record update*



HMIS Functional Summary - Laboratory / X-ray / Ultrasound

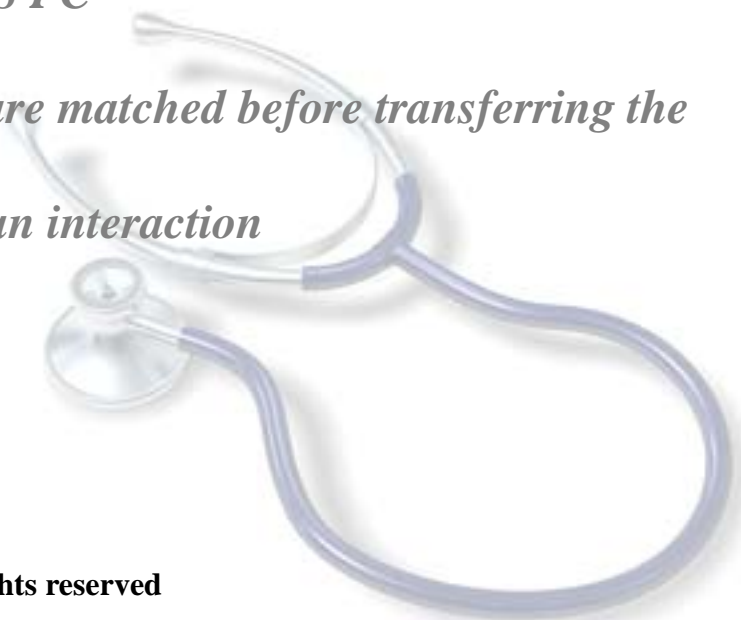
- Automatic Sample Number Generation*
- Kits and Reagent Usage can be Specified for any Test*
- Each Lab may maintain its own Items Store*
- Hospital Logo on Test Reports*
- Financial Reporting*
- Patient Charges Summary (OPD / IPD)*
- Credit Sales / Cash Sales*
- Supplier Payments (optional)*
- Kit & Reagent Usage against its total Tests performed*





HMIS Functional Summary–Laboratory–Equipment Attachment Module

- Direct attachment of lab equipment such as Chemical Analyzers via Serial Port or LAN attachment*
- Special HMIS Lab Equipment Interface Module*
- Test results are automatically transferred to HMIS PC*
- Machine sample number & Lab sample number are matched before transferring the data*
- Fast & accurate data transfer with minimal human interaction*
- Time saving for lab professionals*
- Reduced overall cost*



HMIS Functional Summary - Pharmacy / Inventory Management

- Multiple Warehouses / Stores*
- Centralized purchasing or by each Store*
- Item Categorization*
- Comprehensive Item information including:
Type, preferred supplier, substitute item, sale price, quantity on-hand, batch number, expiry date, FIFO data, reorder level, lead time, calculated current cost, etc.*
- Generate Purchase Order based on Supplier quotations or directly*



HMIS Functional Summary - Pharmacy / Inventory Management

❑ *Linked Operation from Order-to-Stock:*

Requisition slip, Issue item, Inter Store Transfer, Order from Supplier, Receive in Stock, payment for items received

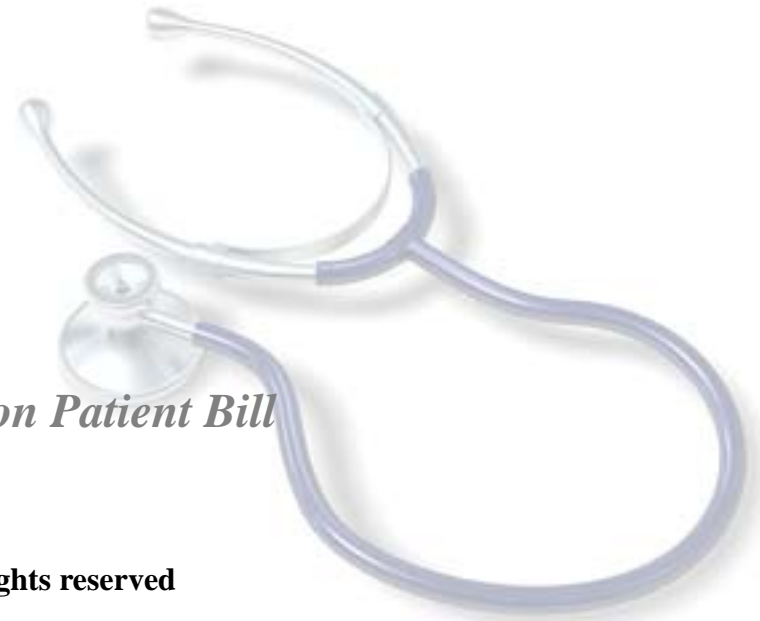
❑ *On screen or printed Reports to Authorized Users*

- *Issued to Patient : Cash / Credit*
- *Issued to Ward / Department*
- *Stock Status: Valuation, Usage Analysis*
- *Supplier Summary, Outstanding P.O.'s*
- *Historical data inquiry*



HMIS Functional Summary - Bed Management

- Multilayer Structure can be defined*
 - *Department, Ward, Room, Bed*
- Bed charges can be specified / Changed*
 - *Override Bed Charges based on new Client Letter*
- Only Authorized staff can Assign Beds*
- Bed Status can be viewed / Printed*
- De-Assign / Re-Assign Bed if required*
- Bed charges Automatically accumulated and put on Patient Bill*



HMIS Functional Summary - Bed Management

- ❑ *Reports for designated, authorized users*
 - *Bed Occupancy - Current and Past*
 - *Patient Bed Movement*
 - *In Patient Summary*
 - *Client Billing with Discounted Bed Charges where Applicable*
 - *Historical Information Inquiry and Display*



HMIS Functional Summary – Operation Theatre

- ❑ *Multiple Operating locations*
 - *Operating Tables / Chairs*

- ❑ *Hospital can make any Surgical Procedure*
 - *Price, time, resources bill-of-material (human, tools, medical and surgical supplies)*

- ❑ *SP's can be scheduled at Operating locations*



- Hospital may Setup an Item Store for each Operating Location*
- Reports to authorized users (on-screen or printed)*
 - *SP schedule by surgeon, anesthetist, patient, operating location, date, SP, etc.*
 - *Allocation of surgical supplies to patient for billing*
- Linkage to Human Resource module*



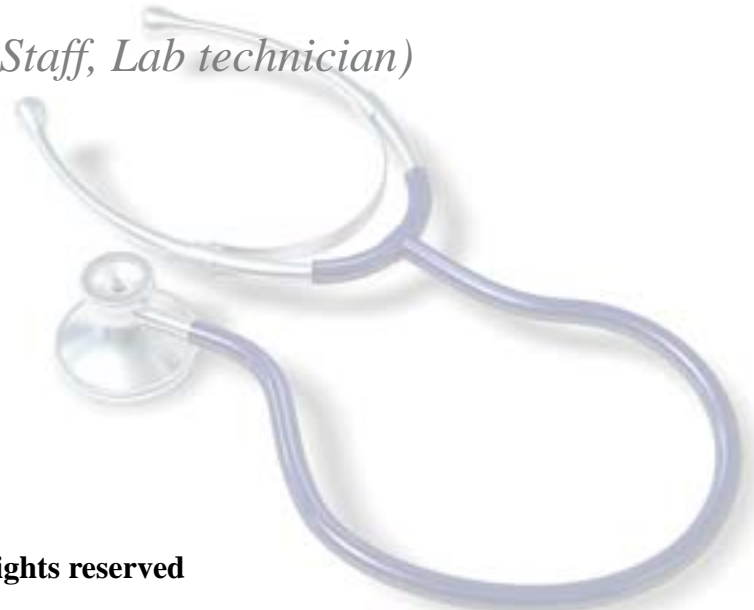
HMIS Functional Summary – Human Resource

- Detailed Personal Folder for all Staff*
 - *Name, NIC, Academic qualifications, Skills, Experience, Certifications, Designation, etc.*

- Staff Categorization*
 - *Staff Type (e.g. Specialist, Nursing, Theater Staff, Lab technician)*
 - *Part / Full time, Contract, etc.*

- Hospital can set its own Shifts (any)*

- Employees can be Assigned to any Shift (s)*



HMIS Functional Summary – Human Resource

Shift Duty Roster

Payroll Processing

- *Allowances and Deductions based on Pay Group*

- *Attendance, Leaves (sickness, casual) Bonus, Provident Fund, Income Tax, Loan, Others.*

- *Pay Slip preparation*



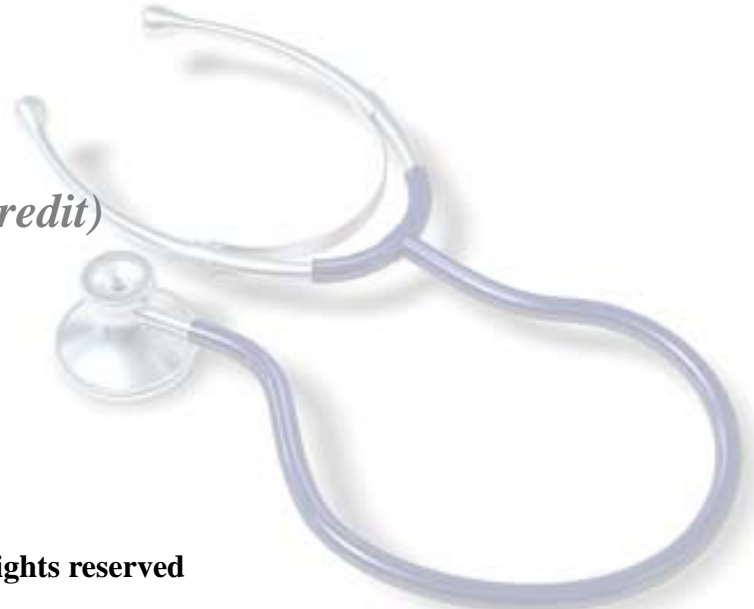
HMIS Functional Summary – Billing & Finance

- Itemized Patient Bill on Demand*
- Automatic Bill number Generation*
- Client Billing with Contracted Discounts*
- Partial Billing if Needed*
- Prevention of Duplicate billing for services already Billed*
- Advance payment Support*



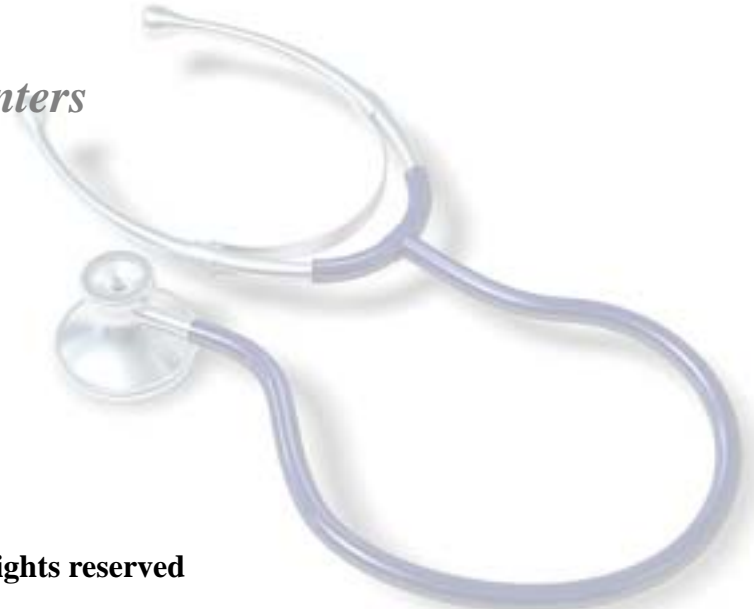
HMIS Functional Summary – Billing & Finance

- Finance can review all Transactions and Financial Data*
- Generated in any other HMIS Module*
- On-screen or Printed Reports to Authorized Users*
- Cashier Management*
- Sales Report Matching (Cash / Credit)*



HMIS Functional Summary – Billing & Finance

- Credit Sales Verification*
- Consultant Share Report Matching*
- Check Billed Revenue Allocation to Revenue Heads*
- Check Costs Allocated to Cost Centers*



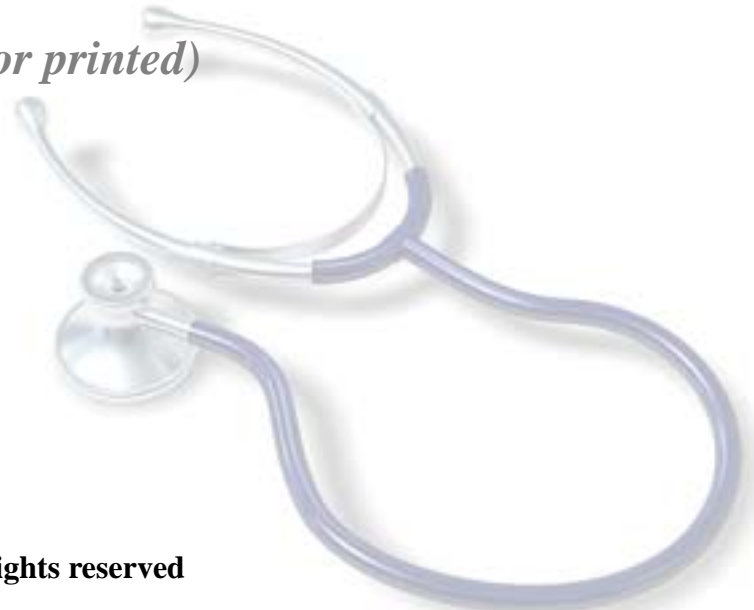
General Ledger Module

- *4 level Chart of Accounts*
- *Cash Voucher*
- *Bank Voucher*
- *Journal Voucher*

On-Demand Reports (on-screen or printed)

- *General Journal*
- *General Ledger*
- *Trial Balance*

Authorized access and audit trail





SUMMARY

- ❑ HMIS is an Integrated Suite Covering all Areas of a Modern Healthcare Facility
- ❑ Easy to Use
- ❑ Powerful Security Features
- ❑ Modular Approach – Start Small & Grow
- ❑ Comprehensive Management Reporting
- ❑ Improved Cost Control
- ❑ Enhanced Hospital Image





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