

HOSPITAL AUTOMATION SYSTEM FOR COMMAND HOSPITAL (EC)

The Hospital automation system for Service Hospitals caters to the specific requirements of all the three categories of service hospitals, viz. Command Hospitals, Military Hospitals and the Peripheral Hospitals.

Base Modules of Patient Services

- M.I. Room (OPD and Wards)
- Electronic Medical Records
- Medical Stores & Asset Tracking
- Blood Bank
- Pathology
- Pharmacy
- Cardiology
- Operation Theatre

The brief contents of the individual modules are...

1. M.I. Room Module

MI Room includes Registrations & treatment for OPD patients and Admission of patients to wards

- 1) OPD Registration
- 2) OPD Slip Generation
- 3) OPD Treatment (Treatment History, Pathological Tests, Radiological Tests and Medication advice)
- 4) Treatment History includes common prescriptions for Diabetes, Hypertension, Ischaemic Heart Disease, Bronchial Asthma, Tuberculosis, Dialysis, etc.
- 5) Generation of Pathological & Imaging requisitions
- 6) Referring Patients to specific departments (Specialist Doctors)
- 7) Maintenance of Long Treatment Patients
- 8) Patient Admissions to Wards (generation of Admission Slip)
 - i. Case Category (SIL, DIL or None)
 - ii. Flagging Special cases for Reporting & Exceptions, viz. VIP case, AB 64 case, transfer by air, battle cases, ECHS cases, Medico-legal cases, Personnel type, Leave cases
 - iii. Injury marking – Colour codes for injuries with annotations
- 9) Patient check-up for Admitted Patients (disease history, condition, reflexes, diagnostic tests suggested)
- 10) Electronic Patient Case Sheet
- 11) DMO Report
- 12) Ward transfers
- 13) Placement / Removal from DIL / SIL
- 14) Discharge of Patients / Transfers to Other Hospitals

- 15) Placement / Removal from Mortuary
- 16) Query & Reports
 - i. Prescriptions
 - ii. Hospital admission card (Flimsy)
 - iii. Pathological Requisitions
 - iv. Imaging Requisitions
 - v. MI Room Register
 - vi. Ward Registration Register
 - vii. Search criteria wise Registration Register
 - viii. DIL Register
 - ix. SIL register
 - x. Search for MI Room Patients
 - xi. Patient Search for admitted Patients
 - xii. Patient History
 - xiii. Query – Pathological & Imaging requisitions
 - xiv. Ward Transfer Log
 - xv. Daily Bed Status
 - xvi. Discharge Slips/Certificate
 - xvii. DMO Reports
 - xviii. Statutory A & D Book
 - xix. Hospital Statistics (admissions, discharges, disease-wise, ward-wise, etc)
- 17) Hot Buttons
 - i. Registration List
 - ii. Admission List
 - iii. Ward Transfer log
 - iv. Patient Case Sheet
 - v. Daily Bed Status
 - vi. Patient Search
 - vii. Patient History
 - viii. Hospital Statistics
 - ix. Query - Pathological Requisitions (Pending and Executed)
 - x. Query - Imaging Requisitions (Pending and Executed)
 - xi. Query - Operation Requisitions (Pending and Executed)

2. Medical Records

- 1) Patient detail
- 2) Recording patient case sheet
 - Symptoms & Features
 - General conditions
 - Reflexes for Neuro- Patients
- 3) Recording Patient family tree for unique ID generation for retrieval
- 4) Recording case wise patient details
 - VIP cases
 - AB 64 cases
 - Medico-legal cases
 - Transfers by air

- Battle cases
- ECHS case
- 5) Recording Patient History
 - Visit date wise prescriptions
 - Pathology test reports
 - Imaging test reports
 - Admission & discharge details
- 6) Archiving and retrieving DICOM-compliant Radiological reports of the Patient

3. Medical Stores and Asset Tracking

- 1) Stock Alert
- 2) Expiry Alert
- 3) Item Master
- 4) Supplier Master
- 5) Auto Indents (Short Life & Long Life Items)
- 6) Indents – Expendable Items
 - Emergent Indent
 - Indent
- 7) Indents – Non-Expendable Items
 - Replenishment Indent
 - Initial Deficiency Indent
- 8) General Information – Submission of Quotation
- 9) Tenders for DGLP Items
- 10) Quotation Submission
- 11) Quotation Processing
- 12) Supply Orders
- 13) Receipts of Items
- 14) Supplier Bill
- 15) Requisitions of Items
- 16) Issues (With facility for Batch-wise stock adjustment)
 - Against requisitions
 - Direct
- 17) MMF Updation
- 18) Maintenance of Toxic Drugs
- 19) Asset Master
- 20) Distribution of Assets
- 21) Transfer of Assets
- 22) Maintenance of Functional / Non-functional Assets
- 23) Queries & Reports
 - Current Inventory Status
 - Expense Book
 - No-Expense Ledger
 - DGLP Expense Book
 - DGLP Non-Expense Ledger
 - Local Indent Book
 - Urgent Indent Book

- AFMSD Issues
- Supply Orders
- Supplier Summary
- Comparative Statement
- Query – Asset details & distribution
- Distribution point wise Assets distribution
- Item wise Assets distribution

4. Blood Bank Module

- 1) Donor registration, Blood Collection from camps and walk-in donors
- 2) Blood group test
- 3) Serological test
- 4) Component separation
- 5) Disposal of blood units
- 6) Requisitions from Hospitals/Blood banks, etc.
- 7) Cross matching of the blood
- 8) Issue of the blood
- 9) Assets Management
- 10) Data archival
- 11) Query-based reports on stock of blood, donors, camps, cross matching, issue, rejected and destroyed blood units
- 12) Blood group wise donors
- 13) Serology book
- 14) Camp wise serological test result
- 15) Age vs. Occupation wise donors summary for the specified period to help studying donors' demography at various time periods
- 16) Blood group wise consumption rate

5. Pathology Module

- 1) Pre-settings for Diagnostic tests, including setting of *Normal Ranges* and tests placement as per report formats
- 2) Patient Registration
- 3) Diagnostic modules and Report generation for...
 - i. Biochemistry
 - ii. Haematology
 - iii. Histopathology
 - iv. Microbiology
 - v. Immunology
 - vi. CSR
- 4) Patient Search (free format)
- 5) Query on tests conducted with colour codes for abnormal ranges
- 6) Query on mean & standard deviation of tests
- 7) Statistics on tests conducted during specified time-period

6. Pharmacy Module

- 1) Maintenance of Expendable Items
- 2) Manual or auto-indent generation for Medical Stores
- 3) Electronic transfer of Indents to Stores
- 4) Receipt of medicines from stores against indents
- 5) Issue of medicines to Patients against prescriptions
- 6) Query – current inventory status (on item, item-life, description, etc)
- 7) Expense book
- 8) Date wise item issue
- 9) Item wise monthly summary

7. Cardiology Module

- 1) Maintenance of tests conducted
- 2) Maintenance of drugs
- 3) Recording Patient visits against registrations through MI Room
- 4) Recording examinations performed
- 5) Maintaining log of previous visits by the patients with complete details, i.e. prescriptions, last diagnosis, drugs provided, etc.

8. Operation Theatre Module

- 1) Operation status entry
- 2) Queries & reports on Operation status