D.PHARM • SECOND YEAR

Hospital & Clinical Pharmacy

CHAPTER 1

Hospital Pharmacy



ENGLISH CHAPTER NOTES

DIPLOMA IN PHARMACY

HOSPITAL PHARMACY: DEFINITION AND SCOPE

DEFINITION

- Hospital Pharmacy is a specialized pharmacy service within a hospital or healthcare institution.
- It ensures the preparation, compounding, storage, dispensing and proper use of medicines, together with reliable drug information.

1. Drug dispensing and distribution
   — inpatient, outpatient, unit-dose and ward supply.

2. Clinical pharmacy
   — ward rounds, patient counselling and Therapeutic Drug Monitoring (TDM).



3. Pharmaceutical care
   — check efficacy, interactions, Adverse Drug Reactions (ADRs) and adherence.

4. Procurement and inventory
   — maintain availability, correct storage and minimum expiry loss.

5. Sterile and non-sterile compounding
   — IV admixtures, parenteral nutrition and hazardous preparations.

6. Pharmacovigilance
   — detect, document and report suspected ADRs.

7. Education, audit and research
   — train staff and improve medication-use systems.

GOAL → safe, effective, rational and cost-conscious medicine use.

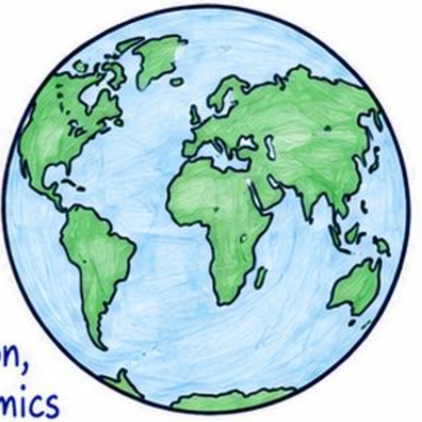
NATIONAL AND INTERNATIONAL SCENARIO

INDIA



- Earlier practice mainly emphasized dispensing, stock control and supply.
- The present direction is patient-centred: clinical review, counselling, medication safety and outcome monitoring.
- Pharmacy Council of India (PCI) regulates pharmacy education and professional practice; CDSCO/DCGI regulates medicines and safety at the national level.
- Pharm.D training, NABH quality systems and Antimicrobial Stewardship Programs (AMSPs) support clinical roles.

INTERNATIONAL VIEW



- In many developed health systems, pharmacists are integrated into ward and multidisciplinary teams.
- Electronic prescribing, medication reconciliation, clinical decision support and pharmacoeconomics are widely used.
- Infrastructure and services vary across countries; many systems are moving from product supply to direct patient care.
- WHO and FIP support standards, training and responsible use of medicines.

DIRECTION OF CHANGE

Product supply → medication management → measurable patient outcomes.

ORGANIZATIONAL STRUCTURE OF HOSPITAL PHARMACY

HEAD OF PHARMACY



- Leads policy, budgeting, staffing, quality and legal compliance.

The exact structure depends on hospital size, services and workload.

CLINICAL PHARMACISTS



- Join healthcare teams, review drug therapy and monitor outcomes.

DISPENSING PHARMACISTS



- Manage inpatient and outpatient dispensing, prescription checking and records.

PHARMACY TECHNICIANS / ASSISTANTS



- Support preparation, labelling, packing, inventory and storage under authorized supervision.

SPECIALIZED SERVICES



- Sterile compounding and IV admixture unit.
- Hazardous-drug or cytotoxic preparation area.
- Drug Information Centre.
- Quality assurance, research and audit support.

ADMINISTRATIVE / LOGISTICS SUPPORT



- Records, purchasing, billing, transport and stock movement.

All units communicate through **SOPs**, documentation and a common medication-safety system.

PROFESSIONAL RESPONSIBILITIES OF HOSPITAL PHARMACISTS

CLINICAL RESPONSIBILITIES

- Check prescription completeness, dose, route, interactions, duplication and patient factors.
- Promote rational drug use and monitor efficacy, ADRs and adherence.
- Join ward rounds and provide evidence-based drug information.
- Counsel patients about dose, method of use, storage, side effects and follow-up.



ADMINISTRATIVE RESPONSIBILITIES

- Plan procurement, inventory and safe storage.
- Maintain legal records, labels, registers and Standard Operating Procedures (SOPs).
- Coordinate with the Pharmacy and Therapeutics Committee.
- Support audits, quality indicators, budgeting and staff training.

TECHNICAL RESPONSIBILITIES

- Compound and reconstitute medicines accurately.
- Prepare sterile products, IV admixtures and parenteral nutrition in controlled conditions.
- Repackage and label bulk medicines with traceability.

CORE DUTY → protect the patient at every step of the medication-use process.

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