

## **HOSPITAL & CLINICAL PHARMACY**

### **Practicals Syllabus:**

**Scope:** This course is designed to train the students to assist other healthcare providers in the basic services of hospital and clinical pharmacy.

**Course Objectives:** This course will train the students with hands-on experiences, simulated clinical case studies in the following:

1. Methods to systematically approach and respond to drug information queries.
2. How to interpret common laboratory reports to understand the need for optimizing dosage regimens.
3. How to report suspected adverse drug reactions to the concerned authorities.
4. Uses and methods of handling various medical/surgical aids and devices.
5. How to interpret drug-drug interactions in the treatment of common diseases.

**Course Outcomes:** Upon completion of the course, the students will be able to:

1. Professionally handle and answer the drug information queries.
2. Interpret the common laboratory reports.
3. Report suspected adverse drug reactions using standard procedures.
4. Understand the uses and methods of handling various medical/surgical aids and devices.
5. Interpret and report the drug-drug interactions in common diseases for optimizing the drug therapy.

**Note:** Few of the experiments of Hospital and Clinical Pharmacy practical course listed here require adequate numbers of desktop computers with internet connectivity, adequate drug information resources including reference books, different types of surgical dressings and other medical devices and accessories.

Various charts, models, exhibits pertaining to the experiments shall also be displayed in the laboratory.

### **Practicals**

1. Systematic approach to drug information queries using primary / secondary / tertiary resources of information (2 cases)
2. Interpretation of laboratory reports to optimize the drug therapy in a given clinical case (2 cases)
3. Filling up IPCs ADR Reporting Form and perform causality assessments using various scales (2 cases)
4. Demonstration / simulated / hands-on experience on the identification, types, use / application /administration of
  - Orthopaedic and Surgical Aids such as knee cap, LS belts, abdominal belt, walker, walking sticks, etc.
  - Different types of bandages such as sterile gauze, cotton, crepe bandages etc.
  - Needles, syringes, catheters, IV set, urine bag, RYLE's tube, urine pots, colostomy bags, oxygen masks, etc.
5. Case studies on drug-drug interactions (any 2 cases).
6. Wound dressing (simulated cases and role play –minimum 2 cases).
7. Vaccination and injection techniques (IV, IM, SC) using mannequins (5 activities).
8. Use of Hospital Pharmacy Software and various digital health tools.

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1.	To study the systematic approach to drug information queries using primary, secondary, tertiary resources of information.	
2.	To study the interpretation of laboratory reports to optimize the drug therapy in a given clinical case (Case -1).	
3.	To study the interpretation of laboratory reports to optimize the drug therapy in a given clinical case (Case -2).	
4.	To filling up IPC'S adverse drug reporting form and perform causality assessments using various scale (Case -1).	
5.	To filling up IPC'S adverse drug reporting form and perform causality assessments using various scale (Case -2).	
6.	To study, demonstration and hand on experience of knee cap.	
7.	To study, demonstration and hand on experience of abdominal and LS belts.	
8.	To study, demonstration and hand on experience of walker & walker sticks.	
9.	To study and demonstrate the different types of bandages such as sterile gauze, cotton, crepe bandages.	
10.	To study and demonstrate various types of Needles and syringes.	
11.	To study and demonstrate different types of catheters.	
12.	To study and demonstrate various types of iv sets.	
13.	To study and demonstrate urine bag and urine pots.	
14.	To study and demonstrate the RYLE's tube.	
15.	To study, demonstration and hand on experience of colostomy bags.	
16.	To study, demonstration and hand on experience of different type of oxygen masks.	
17.	To study the drug - drug interaction (Case -1).	
18.	To study the drug - drug interaction (Case -2).	
19.	To study and perform the wound dressing (Case -1).	
20.	To study and perform the wound dressing (Case -2).	
21.	To study and perform the pulse oxymeter test.	
22.	To study and perform the intravenous injection techniques using mannequins.	
23.	To study and perform the intramuscular injection techniques using mannequins.	

24.	To study and perform the subcutaneous injection techniques using mannequins.	
25.	To attained and study the Vaccination program.	
26.	To study the use of Hospital Pharmacy Software and various digital health tools.	