



Hospital and Clinical Pharmacy: A Textbook for Graduate Students in Pharmacy



N. Narayanan and S. Balasubramanian

The book 'Hospital and Clinical Pharmacy' has been written keeping in mind, the background and understanding of undergraduate students of pharmacy. As the subject is new and not yet in practice in Indian Hospitals, theoretical aspects of the subject written in a simple manner, so as the budding pharmacists can understand the basics of the subject and can build upon it, when they actually enter into the practice of hospital and clinical pharmacy. This book is presented in two parts. Part I covers almost all topics related to Hospital Pharmacy practice, prescribed by various Indian universities. Part II provides overall view of topics covered under Clinical Pharmacy. As the students step in to the practice of Clinical Pharmacy, after their graduation or choose to do specialization in P.G., they will find it useful to carry forward their professional knowledge. 36 chapters in all, covering all important topics of Hospital and Clinical pharmacy are given in this with model questions at the end of each chapter. Sub headings of each chapter's content are given in the contents pages, so that the readers can easily locate the topic of their choice.

Contents: PART – I: Hospital Pharmacy, **1.** Hospitals – an Introduction, **2.** Hospital Pharmacy, **3.** Pharmacy and Therapeutic Committee, **4.** Hospital Formulary, **5.** Hospital Committees, **6.** Pharmacy Procedural Manual, **7.** Budget of Hospital Pharmacy, **8.** Manufacturing in Hospitals **9.** Total Parenteral Nutrition and Intravenous Admixture, **10.** Pre-Packing and Repacking in Hospitals **11.** Purchase and Inventory Control, **12.** Organization and Management of Drug Store, **13.** Drugs Distribution System, **14.** Central Sterile Supply Department, **15.** Hospital Accessories, **16.** Nuclear Pharmacy, **17.** Records and Reports, **PART – II:** Clinical Pharmacy, **18.** Clinical Pharmacy, **19.** Importance of Communication in Clinical Pharmacy **20.** Medication History Interview, **21.** Rational Drug Therapy, **22.** Pharmacotherapy, **23.** Paediatric Pharmacy, **24.** Geriatric Pharmacy, **25.** Use of Drugs in Pregnancy and Lactation, **26.** Pharmacogenetics, **27.** Patient Compliance, **28.** Drug Therapy Review and Therapeutic Drug Monitoring, **29.** Patient Data Analysis, **30.** Individualization of Dose and Pharmacist Intervention, **31.** Adverse Drug Reactions, **32.** Drug Interactions and Drug Induced Diseases, **33.** Patient Counselling, **34.** Drug Information Center and Role of Pharmacists in Education and Training, **35.** Poison Information Center and Treatment of Poison Cases, **36.** Clinical Trials

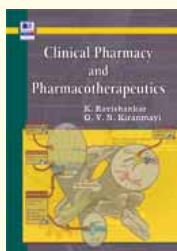
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Clinical Pharmacy and Pharmacotherapeutics



Dr. Ravishankar. K. and Kiranmayi. G.V.N

The First Edition of Clinical Pharmacy and Pharmacotherapeutics is a new book which covers many general and important topics in and colour style has increased the clarity of presentation and total information content. The book describes wide range of contents and the authors have taken into consideration to enlighten and cover the all important topics useful for all students in the health sciences. All the topics are described in detail with salient features covering all modern clinical aspects. The key points of this book includes prevalence, Pathophysiology, Etiology, Clinical features, Diagnosis and Management of different disorders. This book interspersed with many tables, figures, images. This book will be an asset to all students since wide range of topics is covered. Information is organized according to the sequence used in many clinical pharmacy courses and in integrated curricula: General topics, Drugs used in different life stages, GIT drugs, Drugs used for hepatic diseases, renal drugs, cardiovascular drugs, drugs used to treat Respiratory Disorders, Neurological and Psychological Disorders, Infections, Endocrine Disorders, Obstetric and Gynecological Disorders, Malignant Disorders, Rheumatic Disorders, Eye Disorders, Skin Disorders, Miscellaneous, Case Studies of Different Disorders, Problems related to Clinical Pharmacotherapeutics. Major features that make this book particularly useful in integrated curricula include sections that specifically address the clinical choice and use of drugs in patients and the monitoring of their effects is an integral part of this text.

Significance of this book includes

- Different Case Studies are discussed; explicit answers and discussions are provided in the text of IV section.
- Expanded coverage of general concepts relating to many topics in section 1.
- Many solved problems related to clinical Pharmacotherapeutics.

We believe that the book will satisfy this need of many students even more successfully. Most of the topics are covered and the reader no need to search for an alternative and finally we have a confidence to say that the best we are providing useful to the Pharma society.

Contents: **1.** Introduction to Clinical Pharmacy **2.** Drug Interactions **3.** Adverse Drug Reactions (ADR) **4.** Parenteral Nutrition **5.** Pharmacoeconomics **6.** Pharmacogenomics **7.** Pharmacovigilance **8.** Therapeutic Drug Monitoring **9.** Nutraceuticals **10.** Essential Drugs **11.** Rational Drug Use **12.** Dose and Dosage Schedule of Digoxin **13.** Drug Dosing Adjustments in Patients with Renal Failure **14.** Posology **15.** Drug Therapy in Neonates and Paediatrics **16.** Drug Therapy in Geriatric Patients **17.** Peptic Ulcer Disease **18.** Inflammatory Bowel Disease **19.** Diarrhea **20.** Constipation **21.** Nausea and Vomiting **22.** Liver Disease **23.** Acute Renal Failure **24.** Chronic Kidney Disease **25.** Hypertension **26.** Heart Failure **27.** Arrhythmia **28.** Dyslipidemia **29.** Coronary Artery Disease **30.** Asthma **31.** Chronic Obstructive Pulmonary Disease **32.** Insomnia and Anxiety **33.** Schizophrenia **34.** Epilepsy **35.** Parkinson's Disease **36.** Pain **37.** Respiratory Tract Infections **38.** Urinary Tract Infections **39.** Infective Meningitis **40.** Tuberculosis **41.** HIV Infection **42.** Malaria **43.** Filaria **44.** Endocrine Disorders **45.** Thyroid Disorders **46.** Parathyroid Disorders **47.** Diabetes Mellitus **48.** Menstrual Cycle Disorders **49.** Menopause **50.** Drug use during Lactation **51.** Leukemia **52.** Lymphoma **53.** Rheumatoid Arthritis **54.** Osteoarthritis **55.** Gout and Hyperuricemia **56.** Glaucoma **57.** Psoriasis **58.** Skin Disorders and Cutaneous Drug Reactions **59.** Male Sexual Dysfunction **60.** Case Studies of Different Disorders **61.** Problems based on Paediatric Dose Calculations **62.** Problems based on Clearance **63.** Problems based on Absorption Half Life **64.** Problems based on Elimination Half Life **65.** Problems based on Area under Curve (AUC) **66.** Problems based on Wagner Nelson Method

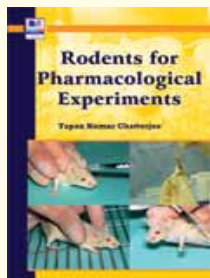
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About the Author

Dr.T.K. Chatterjee, an Ex-UGC(Govt. of India) Research Scientist and presently a Faculty member of the Department of Pharmaceutical Technology, Jadavpur University, Kolkata, has been actively engaged in Pharmacological & toxicological research and teaching for the last 3 decades.

He has been resourceful contributor of more than ninety research papers in journals of National and International repute and he has to his trust worthiness as a distinguished author of books entitled "*Hand book on Laboratory Mice & Rats*" (1993), "*Herbal Options*" (1st edition 1996, 2nd edition 1997, 3rd edition 1999), "*Chemotherapy of Tropical Parasitic Infections*" (1st edition 1995, 2nd edition 1999), "*Skin – Diseases and Treatment*" (1st edition 1999) , "*A Handbook of Pharmacology*" (2011), "*Antidiabetic plant Stereospermum suaveolens (Roxb.) DC*" (2012), "*Pharmacological properties of Coccinia grandis L.Voigt*" (2012), "*Medicinal plant Abrus precatorious L.*" (2012) that attracted widespread recognition from various organization of Pharmaceutical, Medical and allied sciences. International conferences in different countries like Sweden, Germany, Belgium and U.K. have also been enriched by his resourceful papers, a number of times. Dr. Chatterjee is also a freelance Bio-Medical writer with appreciable expertise. He was felicitated by different organizations awarding him with prestigious awards like *Ram Mohan Puraskar, Aadi Samman, NIMA Award, NAGARJUN PURASKAR* etc. for his contribution in Pharmaceutical sciences. With the discovery of a new antibiotic **MT81** (Patent No. 156916), Dr. Chatterjee's research work stands in high esteem embracing in depth study on the subject, and thus adding a new plume into his ever increasing contribution in the fields of Medical healthcare.

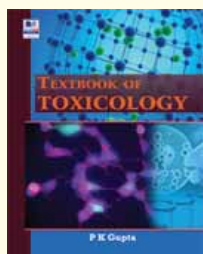
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Textbook of Toxicology

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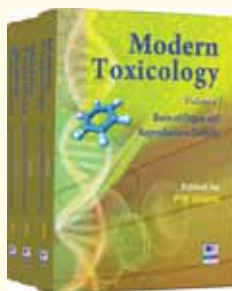
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P. K. Gupta

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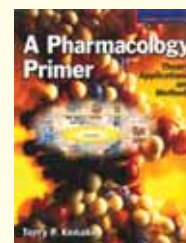
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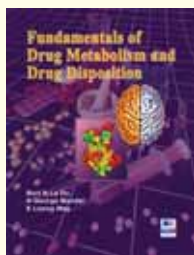
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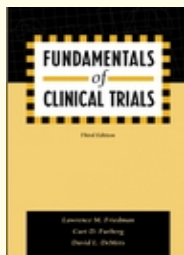


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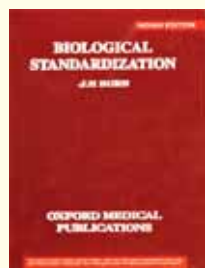
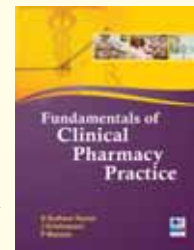
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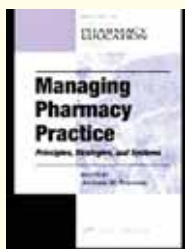
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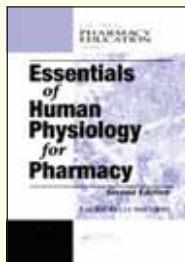
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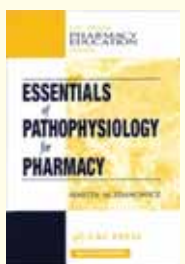
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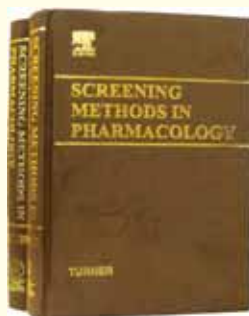
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Screening Methods in Pharmacology, 2 Vol. Set

Robert A. Turner

This book assembles most of the methods for screening substances for pharmacological activity and includes discussions of the organization of screening programs. While screening is widely practiced in pharmacology laboratories, a definition of its meaning is perhaps worthy of attention. The term screening indicates the use of a combination of tests for the purpose of making a decision. The results of the tests provide information on the presence of certain pharmacological properties. A decision whether the tested substance should be studied further may be founded on that information. Incidentally, the direction of further study may also be determined by this information. The operation of retaining from a group of substances those possessing a certain property is fundamental. Screening is the most efficient method of detection and of decision-making in any empirical operation. The finding of substances with a pharmacological property is empirical because no general theory correlating such a property with molecular structure exists. The author tried to collect the simplest and most widely used methods. Absolute completeness has not been attempted, but for the determination of some of the activities (e.g., analgesics), several methods have been described where necessary. Most of the common methods are included and are of such a diversity that new methods will occur to the reader for use in his own studies. Acquaintance with the methods described to aid adaptation of new methods to the problem at hand. Wherever possible, methods have been chosen which could become quantitative if small changes were made in the procedure, such as the use of larger groups of animals.

Guiding principles determining the presentation of the methods are described as follows:

- A complete and carefully described procedure is given, which includes particularly modifications of the original method, so that unnecessary manipulations are eliminated while the accuracy is sustained.
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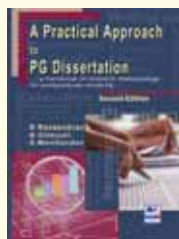
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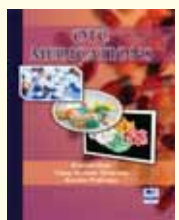
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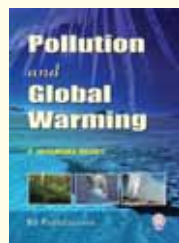
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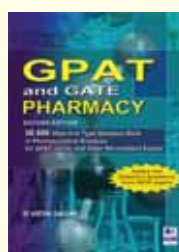
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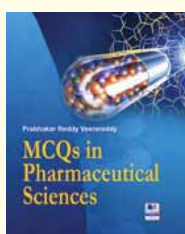
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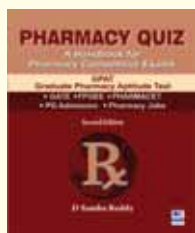
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