# Contents

Contributors Preface	v vii
1. General Pharmacology	1
<ul> <li>Introduction and Scope of Pharmacology</li> </ul>	llendu Tripathy
<ul> <li>Various Routes of Drug Administration—Advantages and Di</li> <li>Drug Absorption—Definition, Types, Factors Affecting Drug</li> <li>Bioavailability and the Factors Affecting Bioavailability</li> </ul>	_
<ul> <li>Drug Distribution—Definition, Factors Affecting Drug Distr</li> <li>Biotransformation of Drugs—Definition, Types of Biotra Reactions, Factors Influencing Drug Metabolisms</li> </ul>	
<ul> <li>Excretion of Drugs—Definition, Routes of Drug Excretion</li> <li>General Mechanisms of Drug Action and Factors Modifying</li> </ul>	Drug Action
2. Drugs Acting on the Peripheral Nervous System	10
<ul> <li>Steps Involved in Neurohumoral Transmission</li> <li>Definition, Classification, Pharmacological Actions, Dose, and Contraindications of <ul> <li>(a) Cholinergic Drugs</li> <li>(b) Anti-cholinergic Drugs</li> <li>(c) Adrenergic Drugs</li> <li>(d) Anti-adrenergic Drugs</li> <li>(e) Neuromuscular Blocking Agents</li> <li>(f) Drugs used in Myasthenia Gravis</li> <li>(g) Local Anaesthetic Agents</li> <li>(h) Non-steroidal Anti-inflammatory Drugs (NSAIDs)</li> </ul> </li> </ul>	hithi Kamepalli Indications,
3. Drugs Acting on the Eye	39
Nalam V Definition, Classification, Pharmacological Actions, Dose, Inc	<i>dications</i>

and Contraindications of

Miotics

- Mydriatics
- Drugs used in Glaucoma

# 4. Drugs Acting on the Central Nervous System

51

Menda Sridhar

Definition, Classification, Pharmacological Actions, Dose, Indications, and Contraindications of

- General Anesthetics
- Hypnotics and Sedatives
- Anti-convulsant Drugs
- Anti-anxiety Drugs
- Anti-depressant Drugs
- Anti-psychotics
- Nootropic Agents
- Centrally Acting Muscle Relaxants
- Opioid Analgesics

# 5. Drugs Acting on Cardiovascular System

78

Dama Pujitha

Definition, Classification, Pharmacological Actions, Dose, Indications, and Contraindications of

- Anti-hypertensive Drugs
- Anti-anginal Drugs
- Anti-arrhythmic Drugs
- Drugs used in Atherosclerosis
- Congestive Heart Failure
- Drug Therapy for Shock

# 6. Drugs Acting on Blood and Blood Forming Organs

Nattala Santhoshini

Definition, Classification, Pharmacological Actions, Dose, Indications, and Contraindications of

- Hematinic Agents
- Anti-coagulants
- Anti-platelet Agents
- Thrombolytic Drugs

# 7. Drugs Acting on Respiratory Tract

117

Kanaka Durga Devi Nelluri

Definition, Classification, Pharmacological Actions, Dose, Indications, and Contraindications of

χi

- Bronchodilators
- Expectorants
- Anti-tussive Agents
- Mucolytic Agents

# 8. Drugs Acting on the Gastrointestinal Tract

129

Pendyala Seeta

Definition, Classification, Pharmacological Actions, Dose, Indications, and Contraindications of

- Anti-ulcer Drugs
- Anti-emetics
- Laxatives and Purgatives
- Anti-diarrheal Drugs

# 9. Drugs Acting on the Kidney

143

Orusu Girija Kumari

Definition, Classification, Pharmacological Actions, Dose, Indications, and Contraindications of

- Diuretics
- Anti-diuretics

# 10. Hormones and Hormone Antagonists

150

Devi Sowjanya Koppiestti

Physiological and Pathological Role and Clinical Uses of

- Thyroid Hormones
- Anti-thyroid Drugs
- Parathormone
- Calcitonin
- Vitamin D
- Insulin
- Oral Hypoglycemic Agents
- Estrogen
- Progesterone
- Oxytocin
- Corticosteroids

#### 11. Autocoids

175

K Naga Kumari

• Physiological Role of Histamine, 5 HT and Prostaglandins

# xii Textbook of Pharmacology

• Classification, Clinical Uses, and Adverse Effects of Antihistamines and 5 HT Antagonists

# 12. Chemotherapeutic Agents

184

A Shanthisri

13. Biologicals

261

Kondamudi Suguna Esther Rani