

# TABLE OF CONTENTS

- Cover image
- Title Page
- Copyright
- Dedication
- Reviewers
- Preface
- The Changing Role of Veterinary Technicians
  
- **1 Veterinary Pharmacology and the Veterinary Technician**
- Role and Responsibilities of Today's Veterinary Technician and Technologist
- Why Is Pharmacology Important for Veterinary Technicians?
- Four Rules to Live by for Safe Drug Usage
- Learning the Vocabulary: Terminology Used to Describe Therapeutic Agents
- The Dosage Form
- Where Can a Veterinary Technician Find Accurate Drug Information?
- A Veterinary Technician's Guide to Understanding the Information in Drug References
- References
- Self-Assessment
  
- **2 Pharmacy Procedures and Dosage Calculations**
- The Goal: The Correct Dose Administered in the Correct Way
- Understanding the Prescription versus the Drug Order
- Writing the Drug Order: The Dosage Regimen
- The Next Step: Determining the Amount of Drug Needed
- Calculating the Amount of Dosage Form Needed
- Compounding Drugs
- The Dispensing Label and Container
- Storage of Drugs in the Veterinary Facility
- References
- Web Resources
- Self-Assessment
  
- **3 Pharmacokinetics and Pharmacodynamics**
- The Therapeutic Goal: Drug Concentrations within the Therapeutic Range
- The Dosage Regimen and Routes of Administration
- How Drugs Move in the Body
- Pharmacokinetics: Absorption—Getting Drugs into the Body
- Pharmacokinetics: Drug Distribution
- Pharmacodynamics: The Way Drugs Exert Their Effects
- Pharmacokinetics: Biotransformation and Drug Metabolism
- Pharmacokinetics: Drug Elimination or Excretion
- Using Concepts of Pharmacokinetics and Pharmacodynamics
- References
- Self-Assessment

- **4 Drugs Affecting the Gastrointestinal Tract**
- Function and Control of the Gastrointestinal Tract
- Emetic Drugs
- Antiemetic Drugs
- Antidiarrheal Drugs
- Laxatives, Cathartics, and Purgatives
- Antacids and Antiulcer Drugs
- Drugs Used for Rumen Health
- The Role of Antimicrobials in Gastrointestinal Tract Disease
- Additional Drugs Used to Treat Gastrointestinal-Related Disease
- References
- Self-Assessment
  
- **5 Drugs Affecting the Cardiovascular System**
- Normal Cardiac Function
- Role of the Autonomic Nervous System in Cardiovascular Function
- Antiarrhythmic Drugs
- Positive Inotropic Drugs and Inodilators
- Vasodilator Drugs
- Diuretics
- Other Drugs Used in Treating Cardiovascular Disease
- References
- Self-Assessment
  
- **6 Drugs Affecting the Respiratory System**
- The Respiratory System's Protective Mechanisms
- Antitussives
- Mucolytics, Expectorants, and Decongestants
- Bronchodilators
- Other Drugs Used to Treat Respiratory Problems
- References
- Self-Assessment
  
- **7 Drugs Affecting the Endocrine System**
- The Negative Feedback System
- Thyroid Disease and Drug Therapies
- Endocrine Pancreatic Drugs
- Drugs Affecting Reproduction
- References
- Self-Assessment
  
- **8 Drugs Affecting the Nervous System**
- Analgesics
- Tranquilizers and Sedatives
- Anesthetics
- Central Nervous System Stimulants
- References
- Self-Assessment

- **9 Drugs Affecting the Nervous System**
- Anticonvulsants
- Behavior-Modifying Drugs
- References
- Self-Assessment
  
- **10 Antimicrobials**
- Types of Antimicrobials
- Goal of Antimicrobial Therapy
- Resistance of Microorganisms to Antimicrobial Therapy
- Classification of Antimicrobials by Their Mechanism of Action
- Classes of Antimicrobials
- Other Antimicrobials Used in Veterinary Medicine
- Antifungals
- References
- Self-Assessment
  
- **11 Disinfectants and Antiseptics**
- Terminology Describing Disinfecting Agents
- Appropriate Use of Disinfecting Agents
- Selecting an Appropriate Disinfecting Agent
- Types of Disinfecting Agents
- References
- Self-Assessment
  
- **12 Antiparasitics**
- Challenges With Veterinary Antiparasitic Compounds
- Keeping Current With New Products
- Principles and Terminology of Antiparasitic Use
- Internal Antiparasitics
- Antinematodals
- Other Antinematodals
- Anticestodals
- Antiparasitics Used in Heartworm Treatment
- Antiprotozoals
- External Antiparasitics
- Insect Growth Regulators: the Insect Development Inhibitors and Juvenile Hormone Analogs
- Insect Repellents
- References
- Self-Assessment
  
- **13 Antiinflammatory Drugs**
- The Inflammation Pathway
- Corticosteroids
- Nonsteroidal Antiinflammatory Drugs
- Other Antiinflammatory Drugs
- References
- Self-Assessment

- **Answers to Self Assessment**
- Chapter 1
- Chapter 2
- Chapter 3
- Chapter 4
- Chapter 5
- Chapter 6
- Chapter 7
- Chapter 8
- Chapter 9
- Chapter 10
- Chapter 11
- Chapter 12
- Chapter 13
- Glossary
- Index.