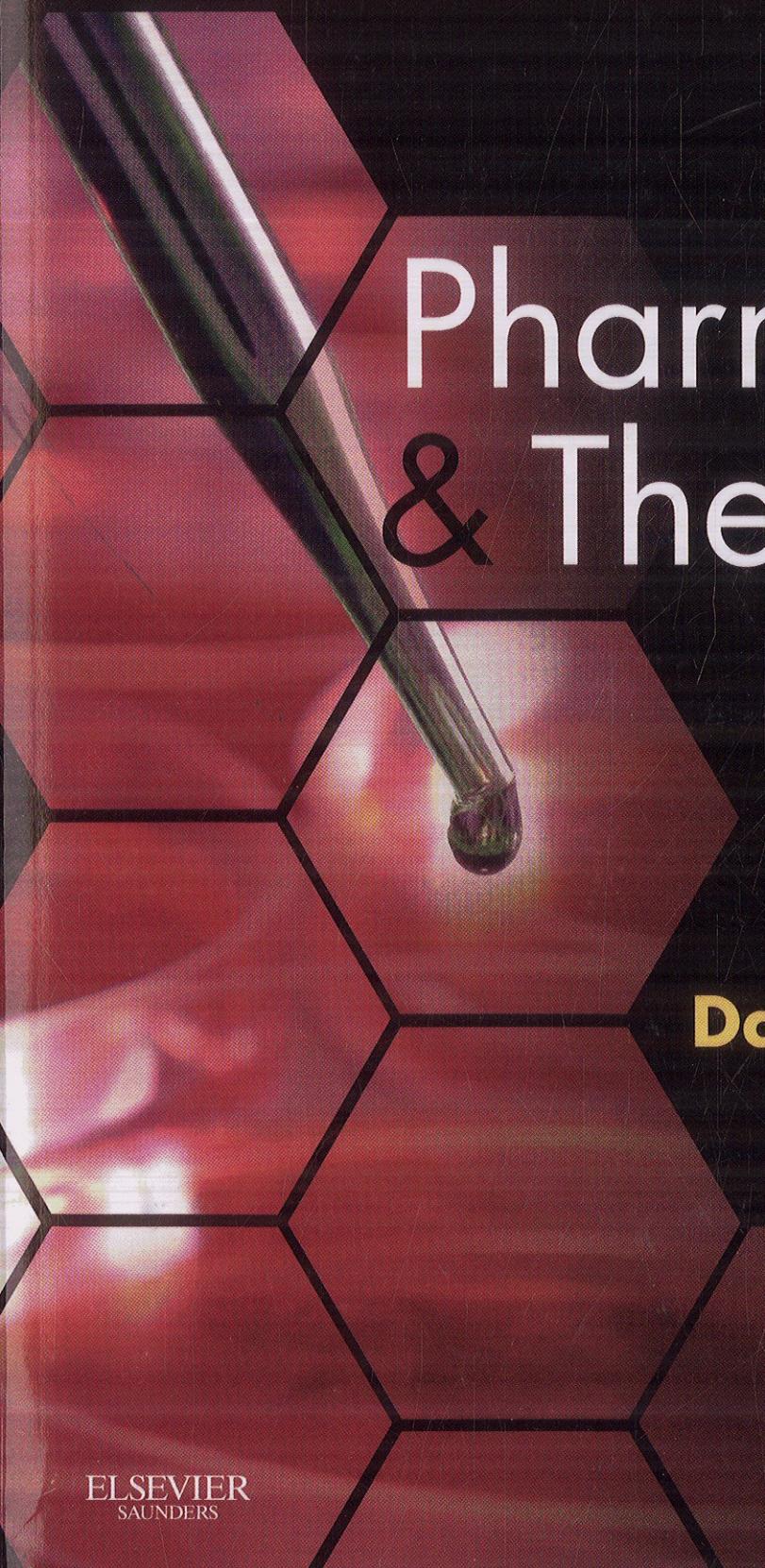


Second Edition



# Small Animal Clinical Pharmacology & Therapeutics

**Dawn Merton Boothe**

# Contents

## SECTION ONE

### Introduction to Drug Use in Dogs and Cats, 1

- 1 Principles of Drug Therapy, 1  
*Dawn Merton Boothe*
- 2 Factors Affecting Drug Disposition, 34  
*Dawn Merton Boothe*
- 3 Pharmacogenetics, 71  
*Katrina A. Mealey*
- 4 Drug-Induced Diseases, 79  
*Dawn Merton Boothe*
- 5 Therapeutic Drug Monitoring, 112  
*Dawn Merton Boothe*

## SECTION TWO

### Drugs Targeting Infections or Infestations, 128

- 6 Principles of Antimicrobial Therapy, 128  
*Dawn Merton Boothe*
- 7 Antimicrobial Drugs, 189  
*Dawn Merton Boothe*
- 8 Treatment of Bacterial Infections, 270  
*Dawn Merton Boothe*
- 9 Treatment of Fungal Infections, 364  
*Dawn Merton Boothe*
- 10 Antiviral Therapy, 398  
*Dawn Merton Boothe*
- 11 Disinfectants, Antiseptics, and Related Biocides, 425  
*Harry W. Boothe*
- 12 Drugs for the Treatment of Protozoal Infections, 434  
*Randy C. Lynn*  
*Dawn Merton Boothe*
- 13 Drugs for the Treatment of Helminth Infections: Anthelmintics, 451  
*Tad B. Coles*  
*Randy C. Lynn*

## SECTION THREE

### Drugs Targeting Body Systems, 469

- 14 Therapy of Cardiovascular Diseases, 469  
*Dawn Merton Boothe*
- 15 Drugs Acting on Blood or Blood-Forming Organs, 568  
*Dawn Merton Boothe*

## 16 Fluids, Electrolytes, and Acid-Base Therapy, 599

*Reid P. Groman*  
*Michael D. Willard*

- 17 Drugs Affecting Urine Formation, 624  
*Dawn Merton Boothe*
- 18 Treatment of Urinary Disorders, 640  
*India F. Lane*  
*Jennifer E. Stokes*
- 19 Gastrointestinal Pharmacology, 672  
*Dawn Merton Boothe*
- 20 Drugs Affecting the Respiratory System, 745  
*Dawn Merton Boothe*
- 21 Drug Therapy for Endocrinopathies, 783  
*Ellen N. Behrend*  
*Tanya D. Civco*  
*Dawn Merton Boothe*
- 22 Dermatologic Therapy, 848  
*Robert A. Kennis*  
*Dawn Merton Boothe*
- 23 Rational Use of Reproductive Hormones, 871  
*Autumn P. Davidson*  
*Janice L. Cain*  
*Sophie A. Grundy*

## SECTION FOUR

### Drugs Acting on the Nervous System, 887

- 24 Anesthetic Agents, 887  
*Elizabeth A. Martinez*
- 25 Muscle Relaxants, 894  
*Elizabeth A. Martinez*
- 26 Drugs That Modify Animal Behavior, 903  
*Dawn Merton Boothe*
- 27 Anticonvulsants and Other Neurologic Therapies in Small Animals, 932  
*Dawn Merton Boothe*
- 28 Control of Pain in Small Animals, 994  
*Dawn Merton Boothe*

## **SECTION FIVE**

### **Drugs Targeting Inflammation or Immunomodulation, 1045**

#### **29 Antiinflammatory Drugs, 1045**

*Dawn Merton Boothe*

#### **30 Glucocorticoids and Mineralocorticoids, 1119**

*Dawn Merton Boothe*

*Katrina A. Mealey*

#### **31 Immunomodulators or Biological Response Modifiers, 1150**

*Dawn Merton Boothe*

#### **32 Biologic Response Modifiers, 1193**

*Paul R. Avery*

*Stephen A. Kruth*

#### **33 Chemotherapy, 1210**

*Heather Wilson*

*Claudia Barton*

## **APPENDICES**

- 1 Regulatory Issues, 1236
- 2 Conversions, Equivalents, and Abbreviations, 1251
- 3 Sample Pharmaceutical Calculations, 1255  
*Dawn Boothe Muel Bailey*
- 4 Nutrition and Pharmacology, 1258
- 5 Clinical Toxicology, 1261  
*E. Murl Bailey, Jr.*
- 6 Generic and Trade Names, 1275
- 7 Conversions of Weight to Body Surface  
Area, 1290  
Index, 1293