

## Small Animal Fluid Therapy Acid Base And Electrolyte Disorders A Color Handbook Veterinary Color Handbook Series

Prior to publication of the first edition of Clinical Medicine of the Dog and Cat, no other comprehensive small animal veterinary medicine book existed with a comparable amount of relevant illustrated material. This new third edition continues and expands on the revolutionary approach of the previous two editions, now including more than 1,850 highly valuable clinical colour photographs, diagrams, and tables. The third edition of this book has been completely revised and updated. The book is now divided into five color-coded sections – General Approach, Disease of Specific Organ Systems, Multisystemic Disorders, Elements of Therapy and Case Studies. As with the first and second editions of this book the overriding principle of succinct, yet comprehensive text presented in a clear format with an abundance of good quality images remains. Section I: General Approach is completely new and covers medical history and client communication, and common clinical problems. Section II: Specific Organ Systems is organized by body system with chapters structured in a systematic manner that include the definition for each disorder, its causes, clinical features, differential diagnoses, diagnostic methodology, treatment and prognosis, providing readers with easy access to important clinical information. New to this section are chapters covering diseases of the oral cavity and teeth, approach to thoracic radiographs, approach to abdominal radiographs, and disorders of hemostasis. Section III: Multisystemic Disorders covers revised and updated chapters including clinical toxicology, infectious diseases, and immunologic disorders. Section IV: Elements of Therapy covers therapies such as fluid therapy, pain management, nutrition of the critically ill dog and cat and a new chapter on management of the obese dog or cat. Section V: Case Studies includes over 25 case studies that enable the reader to relate the knowledge gained in the book to clinical cases seen in practice. Written by board-certified experts with several case contributions by clinicians in advanced phases of resident training, topics were carefully selected to make this a valuable resource to the general practitioner and also to small animal interns and veterinary students.

This new edition of Cardiovascular Disease in Companion Animals, authored by two leading experts in the field, now covers the horse as well as the dog and cat. The comprehensive, superbly illustrated book has been completely revised and expanded from the original Cardiovascular Disease in Small Animal Medicine. Five key sections provide clearly written overviews of normal cardiovascular structure and function, pathophysiologic derangements and their manifestations, clinical cardiology testing and interpretation, and extensive guidance for cardiovascular disease diagnosis and management. A broad collection of clinical images, graphics, tables, diagrams, and a Summary Drug Tables for each species enhances the book's utility as a practical clinical resource. Up-to-date references support the focus on cardiovascular diseases and reflect important developments in veterinary cardiology and practice. A valuable companion website contains videos and additional images to enhance each chapter. Since first publication in 2007, Dr Ware's authoritative yet user-friendly guide to cardiovascular diseases in veterinary practice has been widely praised. This book contains even more illustrations of the highest quality. Coverage also includes diagnostic considerations for various clinical problems, procedures and techniques for patient evaluation, and detailed management strategies for congestive heart failure, arrhythmias, and other complications of cardiovascular disease. This second edition is a must-have for veterinary practitioners, students, interns, residents, and others with an in-depth interest in veterinary cardiology.

Drs. Helio Autran de Moraes and Stephen DiBartola have assembled a comprehensive list of topics on Advances in Fluid, Electrolyte, and Acid-base Disorders. Just some of the many article topics include: Hypoxemia; Respiratory Alkalosis; Respiratory Acidosis; Anion gap and strong ion gap; Metabolic Alkalosis; Hyperchloremic Metabolic Acidosis; High Anion Gap Metabolic Acidosis; Hypercalcemia; Hypocalcemia; Chloride; Magnesium; Phosphorus; Practical management of dysnatremias; Spurious electrolyte disorders; Compensation for acid-base disorders; Fluid therapy: Options and rational selection; Maintenance fluid therapy: Isotonic versus hypotonic solutions; Are colloids bad and what are the options?; Fluid management in patients with trauma; Restrictive versus liberal approach, and more!

Written by today's leading experts, Kirk's Current Veterinary Therapy, Volume XV keeps you completely current with the latest in disease management for dogs and cats. It uses a clear and practical approach to medical disorders; the typical chapter includes both a brief guide to diagnosis and a detailed discussion of therapy. You'll gain quick access to information such as critical care; infectious, toxicologic, and dermatologic disorders; and diseases of the gastrointestinal, cardiovascular, respiratory, urinary, reproductive, neurologic, and ophthalmologic systems. From editors John Bonagura and David Twedt plus hundreds of expert contributors, Kirk's Current Veterinary Therapy enhances your skills in evidence-based treatment planning. "For the practitioner who wants to keep abreast of current therapies for a wide range of topics, ... CVT is the perfect reference."

Reviewed by: Ryan Ong, WAVES Veterinary Hospital on behalf of Australian Veterinary Hospital, March 2015 Authoritative, easy-to-read coverage includes a brief approach to diagnosis with detailed discussions of the latest therapies. An organ-system organization and a convenient index make it easy to find solutions for specific disorders. Treatment algorithms help you manage patients with difficult medical problems. A handy Table of Common Drugs, updated by Dr. Mark Papich, offers a quick reference to dosage information. 365 illustrations depict the pathophysiologic basis for therapy or show the management of a defined condition. A companion website includes valuable information still relevant from CVT XIV, an index, and drug formulary, all fully searchable; a collection of 300 images; references that link to PubMed; and clinical references on laboratory test procedures and interpretation, normal reference ranges, conversion tables, and more. Concise chapters are only 2-5 pages in length, saving you time in finding essential information. Expert contributors and editors provide scientific, up-to-date coverage of clinically useful topics, including broad, traditional, and controversial subjects. References indicate related material from earlier volumes of Kirk's Current Veterinary Therapy. NEW chapters cover the most important, emerging information on current diagnostic,

treatment, and preventive challenges in today's veterinary practice. A new section on feline and canine nutrition covers important issues in nutritional health. 50 new chapter authors join hundreds of expert international contributors, all of whom are leading authorities in their fields. NEW! Availability as Pageburst ebook allows you digital access to this volume along with your library of other Elsevier references.

Part of a series of paperback handbooks covering topics of particular interest to the veterinary practitioner. This book focuses on small animal practice and discusses behavioural problems, acute trauma and fracture fixation.

Australia's venomous snakes are widely viewed as the world's most deadly and are regarded with cautious curiosity, fascination and, regrettably, fear. Australia's Dangerous Snakes examines the biology, natural history, venom properties and bite treatment of medically important venomous marine and terrestrial snakes. It contains comprehensive identification profiles for each species, supported by keys and photographs. In addition to their medical importance, the environmental roles of these snakes and the threats that are causing the decline of many of these reptiles are discussed. Drawing on the authors' experience in the fields of herpetology, toxinology and clinical medicine, this book stimulates respect and admiration and dispels fear of Australia's fascinating snakes. Australia's Dangerous Snakes will provide hours of rewarding reading and valuable information for anyone interested in Australia's unique wildlife and natural history, and will be an essential reference for herpetologists, toxinologists, physicians, zoo personnel and private snake collectors.

Fluid, Electrolyte, and Acid-Base Disorders in Small Animal Practice - E-Book Elsevier Health Sciences

This publication is intended to contribute to prevention and control of the morbidity and mortality associated with dengue and to serve as an authoritative reference source for health workers and researchers. These guidelines are not intended to replace national guidelines but to assist in the development of national or regional guidelines. They are expected to remain valid for five years (until 2014), although developments in research could change their validity.--Publisher's description

Blackwell's Five-Minute Veterinary Consult Clinical Companion: Small Animal Toxicology, Second Edition puts all the information needed to rapidly and accurately manage poisonings in small animal patients at the clinician's fingertips. Provides concise, bulleted information focused on the most important facts needed when treating a poisoned cat or dog Carefully organized for ease of use in an emergency, with important toxicants arranged alphabetically within categories Details clinically relevant information on the most common toxicants encountered by small animals Presents a wealth of color photographs to aid in plant identification Includes 14 new topics to this edition covering cyclosporine A, sleep aids, tacrolimus, bath salts, synthetic marijuana, poisonous lizards, imidacloprid, spring bulbs, and sodium monofluoroacetate

Your step-by-step guide to key emergency and critical care procedures and hands-on nursing care. Whether you need to know how to prioritise your response to a patient with multiple injuries, or you need a quick practical guide to fluid therapy, this is the go-to resource. Colour photographs of real life cases take you through the procedures and after-care, detailing essential skills. This book provides vital information for emergency and critical care situations, whether you're looking for confidence in handling emergency cases in a first-opinion practice, or a relevant, succinct guide for an emergency clinic. Be inspired to become more confident in your clinical skills and abilities, and learn how to apply your existing skills to an emergency situation. A companion website provides additional resources useful in the management of emergency and critical patients. Visit the website to find information charts and video clips of procedures. Written by a veterinary nurse and a veterinary surgeon who work together in the largest UK emergency clinic, this book is a practical, how-to manual with a nursing focus. Suitable as a complete reference for nurses studying towards qualifications, or as a practical guide for daily use by veterinary nurses working in veterinary emergency and critical care.

Textbook of Small Animal Emergency Medicine offers an in-depth understanding of emergency disease processes and the underlying rationale for the diagnosis, treatment, monitoring, and prognosis for these conditions in small animals. A comprehensive reference on a major topic in veterinary medicine The only book in this discipline to cover the pathophysiology of disease in depth Edited by four respected experts in veterinary emergency medicine A core text for those studying for specialty examinations Includes access to a website with video clips, additional figures, and the figures from the book in PowerPoint Textbook of Small Animal Emergency Medicine offers an in-depth understanding of emergency disease processes and the underlying rationale for the diagnosis, treatment, monitoring, and prognosis for these conditions in small animals.

Drs. Helio Autran de Moraes and Stephen DiBartola have assembled a comprehensive list of topics on Advances in Fluid, Electrolyte, and Acid-base Disorders. Just some of the many article topics include: Hypoxemia; Respiratory Alkalosis; Respiratory Acidosis; Anion gap and strong ion gap; Metabolic Alkalosis; Hyperchloremic Metabolic Acidosis; High Anion Gap Metabolic Acidosis; Hypercalcemia; Hypocalcemia; Chloride; Magnesium; Phosphorus; Practical management of dysnatremias; Spurious electrolyte disorders; Compensation for acid-base disorders; Fluid therapy: Options and rational selection; Maintenance fluid therapy: Isotonic versus hypotonic solutions; Are colloids bad and what are the options?; Fluid management in patients with trauma; Restrictive versus liberal approach, and more

This new book deals systematically with the assessment and treatment of small animal neurological patients in light of latest research findings and greatly improved imaging techniques. The authors first discuss step-wise neurological and systemic approaches to common emergency cases—examination, critical care and rapid assessment—based on presenting signs. They then deal in depth with the pathophysiology, treatment options and likely prognoses of each of the more common types of neurological emergency, be it vascular accident, infection, trauma, seizure, acute disease or neoplasia. Detailed support techniques and therapies are provided on emergency anaesthesia, pain management,

fluid therapy, post-operative care and physical rehabilitation. The book will appeal to small animal practitioners, specialists, residents, course directors and students interested in neurology, emergency medicine and critical care, internal medicine, imaging and pathology.

This book is dedicated to the fundamental clinical signs of astute observation, careful differential diagnosis and analytical therapeutic decision-making in emergency veterinary settings. It clearly defines the physiological and clinical principles fundamental to the management of the critically ill small animal patient. With clear guidelines for organizing an emergency/critical care unit, the book also discusses ethical and legal concerns. The 80 expert authors have created a clinically specific resource for the specialist, residents in training, veterinary practitioners, technicians and students. Published by Teton New Media in the USA and distributed by CRC Press outside of North America.

The extremely user-friendly 2nd Edition of this excellent text offers guidance in tackling the most difficult problems associated with diagnosing and treating fluid disorders in the dog and cat. Esteemed practitioners make top-notch care easier--even for those patients who present with diabetes, Addison's disease, and cancer. Provides discussion of normal physiology for body fluids, offers "how to's" for special types of fluid therapy, and explains the role of fluid therapy in selected disease conditions and clinical situations. Tables are included throughout the book for quick access to possible diagnoses.

Emergency and critical care medicine is one of the fastest growing fields of veterinary practice. Virtually every life-threatening disease can present for emergency evaluation, requiring knowledge of internal medicine, neurology, cardiology, oncology, anesthesia, and much more. Rapid and effective application of this knowledge can mean the difference between life and death for the animal. Critical care requires the recognition of subtle changes in the clinical course of animals, and the ability to take corrective action before severe systemic disease becomes irreversible. Clinical decisions regarding seemingly small items, such as fluid therapy, antibiotics, or analgesics, can have a profound impact on patient outcome. This book focuses on management of the more common emergency and critical care conditions encountered in clinical practice, collated in a concise manual. There are chapters on emergencies affecting each body system, on toxicology and other environmental causes, and on critical care techniques ranging from patient monitoring, anesthesia and analgesia to fluid therapy, transfusion medicine and nutritional support, plus a chapter describing clinical skills and procedures. The text is illustrated by top-quality color photos, imaging and diagrams, and key information is highlighted in tabular form. The authors combine experience in teaching and in clinical practice, and provide a ready resource for all those actively engaged in the field: practitioners and trainees, technicians, and nurses.

Nutritional Management of Hospitalized Small Animals offers veterinarians, veterinary students and technicians a comprehensive reference to the latest information relating to the principles and practice of nutritional support in small animals that require hospitalization. Represents the definitive resource for small animal veterinarians in providing optimal nutritional support for their patients during hospitalization. Discusses and demonstrates the most up-to-date techniques available for successfully implementing nutritional support for hospitalized small animal patients. Provides step-by-step pictorial instructions on how to implement the most appropriate techniques for particular patients. Reveals expected outcomes and possible complications along with strategies to minimize risk of complications.

Fluid therapy is one of the most important, yet controversial, aspects of therapy in veterinary medicine. Opinions differ as to how best to provide fluid therapy in different disease states. Recognizing these differences, the author provides guidelines for the safe implementation of fluid and transfusion therapy in clinical practice. The text first describes the physiologic fluid compartments of the body and how fluid travels from place to place within the body. Clinical chapters then deal with how to place and maintain intravenous and intraosseous catheters, with crystalloids and colloids, with transfusion medicine, with the diagnosis and treatment of electrolyte disorders, and with shock and resuscitation. Clinical cases reinforce the principles and concepts described and the book is fully illustrated throughout. The Color Handbook is designed to appeal alike to veterinary practitioners, to technicians/nurses and to veterinary students.

Small Animal Regional Anesthesia and Analgesia is an up-to-date, complete resource for performing local anesthetic techniques in small animals. This practical, clinically oriented reference presents step-by-step procedures for performing common locoregional blocks and is organized logically by body system. The first book to draw information on this topic into one resource, Small Animal Regional Anesthesia and Analgesia is equally useful as a comprehensive reference and as a quick source of information with checklists and pictures to assist with performing various blocks in practice. Beginning with introductory sections offering an overview of general considerations for patient preparation and pharmacology, the heart of the book is devoted to detailed instructions for performing regional anesthetic techniques, including reviews of the literature, useful illustrations, diagrams, and clinical tips. Small Animal Regional Anesthesia and Analgesia provides an invaluable tool for veterinary anesthesiologists and practitioners who incorporate local and regional anesthetic techniques into their small animal practices.

This two-volume masterwork offers explicit guidelines for evaluating patients, selecting the right operation, and implementing clinically proven procedures. It covers major topics relevant to the field such as oncology, ophthalmology, dentistry, the nervous system, the urinary and reproductive systems, and more. The up-to-date 3rd edition features an increased emphasis on decision-making algorithms and high-quality images that depict relevant anatomy, diagnostic features, and sequential steps in operative procedures. Expanded, detailed coverage assists the reader with learning and applying the latest surgical techniques. Contributors from three different continents and 17 countries, outstanding in their fields, lend a global perspective to the work. Extensive, high-quality illustrations aid the reader in clear visualization of techniques, instrumentation, and diagnosis. References for each chapter direct the reader to further sources of information. An appendix of normal laboratory values for the dog and cat put this essential information within easy reach. A cardiopulmonary resuscitation algorithm is printed on the inside front cover for quick and easy reference. A quick guide to evaluation and initial stabilization of life-threatening cardiopulmonary complications is printed on the inside back cover for immediate access to crucial information. The section on critical care has been expanded to include more complete information. 10 new section editors and 146 new contributors bring new insight to topics in their areas of expertise. 38 new chapters, including a chapter on arthroscopy, reflect current knowledge and advances. Detailed coverage of surgery techniques present explicit, easy-to-follow guidelines and procedures. An increased emphasis on decision-making algorithms makes the book even more clinically useful. Each chapter has been thoroughly revised, providing the most comprehensive scope of coverage for each topic.

Fluid, Electrolyte and Acid-Base Disorders: Clinical Evaluation & Management is a clear and concise presentation of the fundamentals of fluid, electrolyte and acid-base disorders frequently encountered in clinical practice. Each chapter begins with pertinent basic physiology followed by its clinical disorder. Cases for each fluid, electrolyte and acid-base disorder are discussed with answers. In addition, board-type questions with explanations are provided for each clinical disorder to increase the knowledge for the clinician. Practical and clinically oriented, this book is a handy reference for practicing physicians,

students, residents and fellows.

Presented in a question-and-answer format with all new cases, this new edition of a bestselling book provides a broad overview of small animal soft tissue surgery. Clinical cases appear in random order to simulate the way they might appear in an actual veterinary practice. Cases include photos, a description of presenting symptoms, and questions th

Using a practical approach, the Manual of Veterinary Transfusion Medicine and Blood Banking provides veterinary practitioners with evidence-based guidelines to refer to at the clinical practice level. Provides evidence-based information on transfusion medicine and blood banking practices Presents sections on recipient screening, donor selection, blood collection and storage, and how to meet blood product demands Includes useful protocols for transfusions and blood banking relevant to clinical practice Incorporates the balanced perspectives of veterinarians and veterinary technicians Contains information pertaining to large, small, and exotic animals

In this concise and practical volume the authors describe and illustrate step by step all currently available reconstructive surgical techniques. The book covers both dogs and cats with skin defects caused by injury or tumor resection and the reader is given the widest possible range of treatment options for dealing with individual cases. After describing a new protocol for wound management in companion animals, and general, avascular and microvascular reconstructive techniques, the authors deal with specific techniques region by region: facial area and head, eyelids, neck and trunk, forelimb, and hindlimb.

Reconstructive Surgery and Wound Management of the Dog and Cat is an accessible overview and a source of practical help to improve treatment of patients with skin wounds. The book incorporates concise text, precise instructions and a wealth of top-quality color images. It will be of value to veterinary practitioners and students alike.

Essentials of Small Animal Anesthesia and Analgesia, Second Edition presents the fundamentals of managing small animal anesthesia patients in a clinically relevant, accessible manual. The bulk of the book is distilled from Lumb and Jones' Veterinary Anesthesia and Analgesia to provide authoritative information in a quick-reference format, with references to Lumb and Jones' throughout for easy access to further detail. Logically reorganized with an easy-to-use structure and an increased focus on pain management, this new edition features new chapters on equipment and managing specific conditions. The Second Edition has been updated to reflect current practices in anesthesia and analgesia, and a new companion website offers review questions and answers, video clips, and an image bank with additional figures not found in the printed book. Essentials of Small Animal Anesthesia and Analgesia, Second Edition provides veterinary care providers and students with key information on anesthetic and analgesic pharmacology, physiology, patient assessment, and clinical case management.

Veterinary Consult The Veterinary Consult version of this title provides electronic access to the complete content of this book. Veterinary Consult allows you to electronically search your entire book, make notes, add highlights, and study more efficiently. Purchasing additional Veterinary Consult titles makes your learning experience even more powerful. All of the Veterinary Consult books will work together on your electronic "bookshelf", so that you can search across your entire library of veterinary books. Veterinary Consult: It's the best way to learn! Book Description

This comprehensive resource brings together cutting edge information about fluid, electrolyte, and acid-base physiology and fluid therapy as they apply to small animal practice. It also offers complete coverage of relevant physiology and pathophysiology, as well as important information for interpreting and analyzing biochemical test results. Book plus fully searchable electronic access to text.

Clinical Small Animal Internal Medicine is a comprehensive, practical reference designed to meet the needs of veterinary practitioners and students alike. Covering all aspects of small animal internal medicine, this innovative guide provides clinically relevant material, plus podcasts and continual updates online. Concise, identically-formatted chapters allow readers to quickly find the most essential information for clinical veterinary practice. Contributions from academic and clinical experts cover general medicine subjects, including patient evaluation and management, critical care medicine, preventative care, and diagnostic and therapeutic considerations. Topics relevant to daily clinical practice are examined in detail, ranging from endocrine, cardiovascular, respiratory, and infectious disease to oncology, dermatology, metabolic orthopedic disease, gastroenterology, and hepatology. A companion website features podcasts and updated information. An important addition to the library of any practice, this clinically-oriented text: Presents complete, practical information on small animal internal medicine Provides the background physiology required to understand normal versus abnormal in real-world clinical settings Includes general medicine topics not covered in other internal medicine books Focuses on information that is directly applicable to daily practice Features podcasts and continual updates on a companion website Carefully tailored for the needs of small animal practitioners and veterinary students, Clinical Small Animal Internal Medicine is an invaluable, reader-friendly reference on internal medicine of the dog and cat.

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Recognizing these differences, the author provides guidelines for the safe implementation of fluid and transfusion therapy in clinical practice. The text first

Small Animal Critical Care Medicine is a comprehensive, concise guide to critical care, encompassing not only triage and stabilization, but also the entire course of care during the acute medical crisis and high-risk period. This clinically oriented manual assists practitioners in providing the highest standard of care for ICU patients. More than 150 recognized experts offer in-depth, authoritative guidance on clinical situations from a variety of perspectives. Consistent, user-friendly format ensures immediate access to essential information. Organ-system, problem-based approach incorporates only clinically relevant details. Features state-of-the-art invasive and non-invasive diagnostic and monitoring procedures, as well as an extensive section on pharmacology. Appendices provide conversion tables, continuous rate infusion determinations, reference ranges, and more.

The most effective, practical approach to the recognition and management of cardiovascular and cardiopulmonary medicine, MANUAL OF CANINE AND FELINE CARDIOLOGY, 4th Edition takes a user-friendly approach to the challenges and conditions you encounter in everyday practice. This completely revised and updated edition includes vital information on diagnostic modalities and techniques, therapeutic options, surgical procedures, and pharmaceutical management of the dog and cat cardiac patient. This invaluable, practical reference covers the full breadth of canine and feline cardiology diagnosis and management in a straightforward and clinically focused format. Covers common cardiovascular disorders and practical treatment methods for cardiac failure, cardiac arrhythmias, conduction disturbances, cardiopulmonary arrest, as well as procedures for resuscitation. Includes numerous reproductions of electrocardiograms, thoracic radiographs, and pressure curves Vibrant, full-color format helps important material stand out and includes vivid illustrations to aid in diagnosis and treatment. A user-friendly format with bullet points, tables, key points, and boxes offers at-a-glance access to key information. Cardiac Surgery chapter provides illustrated, step-by-step coverage of

cardiovascular surgical procedures and techniques. Chapters on Pacemaker Therapy and Cor Pulmonale and Pulmonary Thromboembolism expand the scope of coverage. A completely updated drug formulary presents the most current therapies used to pharmacologically manage cardiovascular disease. Twenty-nine expert contributors share their knowledge and clinical exposure to ensure you are using the most trustworthy and up-to-date information available.

Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care is a comprehensive yet practical reference, providing hands-on information essential to veterinarians and veterinary technicians involved in emergency and critical care. Written by an expert team of veterinarians and veterinary technicians, this well-referenced book offers step-by-step protocols for performing advanced emergency and critical care procedures and monitoring techniques. Packed with practical guidance in an easy-to-use format, this book is ideally suited for quick access in emergency rooms or intensive care units. Organized primarily by body system, each chapter covers general principles, indications, equipment, techniques, basic interpretation, troubleshooting, and contraindications. Standardized protocols supply equipment lists and step-by-step instructions throughout, and a companion website offers images from the book in PowerPoint and protocols as downloadable Word files. Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care is a valuable resource for any veterinary staff member with an interest in improving the standard of care in emergency and critical care medicine.

This popular reference offers well-balanced coverage of fluid, electrolyte, and acid-base disorders. Thorough without going into extraneous detail, it synthesizes key theoretical and clinical information in a way that is easy to understand and apply. The 3rd Edition presents the most recent discoveries about molecular biology...acute and chronic hyponatremia...endogenous acid production...and much more. Presents the very latest advances in knowledge about molecular biology; acute and chronic hyponatremia; endogenous acid production; Bartters and Gittelmans syndromes; the concentrating mechanism of the renal medulla; the production and purpose of GI organic acid, cerebral salt wasting, and much more. Begins each section with a concise overview of basic physiology, followed by discussions of the associated disorders pathophysiology and management. Incorporates relevant information on energy metabolism and endocrine, gastrointestinal, respiratory, and cardiovascular physiology. Features a consistent, user-friendly format with diagnostic algorithms and explicit treatment guidelines to make reference easy. Includes numerous case studies (more than ever in this New Edition) that illustrate how key management principles are applied in practice.

Feline Emergency and Critical Care Medicine is the first book to focus specifically on feline-specific emergency and critical care. Designed as a quick-access manual of emergency and critical care procedures, information is presented in an easy-to-follow outline format. With an emphasis on the unique considerations for treating cats, this book provides all the information needed to confidently manage the feline critical patient.

A unique issue for all small animal practitioners! Along with the usual review format of the series, this issue will present short, quick reference articles on all facets of electrolyte topics, including anions, bicarbonates, calcium, chloride, magnesium, potassium, phosphorus, and sodium. Review articles will address electrolyte and acid-base disorders, and fluid therapy of common problems in dogs and cats. The leading reference for the diagnosis and management of fluid, electrolyte, and acid-base imbalances in small animals, Fluid, Electrolyte, and Acid-Base Disorders in Small Animal Practice, 4th Edition provides cutting-edge, evidence-based guidelines to enhance your care of dogs and cats. Information is easy to find and easy to use, with comprehensive coverage including fluid and electrolyte physiology and pathophysiology and their clinical applications, as well as the newest advances in fluid therapy and a discussion of a new class of drugs called vaptans. Lead author Stephen DiBartola is a well-known speaker and the "go-to" expert in this field, and his team of contributors represents the most authoritative and respected clinicians and academicians in veterinary medicine. Over 30 expert contributors represent the "cream of the crop" in small animal medicine, ensuring that this edition provides the most authoritative and evidence-based guidelines. Scientific, evidence-based insights and advances integrate basic physiological principles into practice, covering patient evaluation, differential diagnosis, normal and abnormal clinical features and laboratory test results, approaches to therapy, technical aspects of therapy, patient monitoring, assessing risk, and prediction of outcomes for each disorder. Hundreds of tables, algorithms, and schematic drawings demonstrate the best approaches to diagnosis and treatment, highlighting the most important points in an easy-access format. Drug and dosage recommendations are included with treatment approaches in the Electrolyte Disorders section. Clear formulas in the Fluid Therapy section make it easier to determine the state of dehydration, fluid choice, and administration rate and volume in both healthy and diseased patients. Updated chapters cover the latest advances in fluid therapy in patient management, helping you understand and manage a wide range of potentially life-threatening metabolic disturbances. Expanded Disorders of Sodium and Water chapter includes information on a new class of drugs called vaptans, vasopressin receptor antagonists that may soon improve the ability to manage patients with chronic hyponatremia. Hundreds of new references cover the most up-to-date advances in fluid therapy, including renal failure and shock syndromes.

Emergency care is one of the most important areas of veterinary medicine. Building on the success of the previous editions, the international team of editors and authors have reviewed and updated the manual so that it reflects the continued growth in knowledge and understanding in this crucial area while remaining a highly practical resource. The introductory chapters, covering areas such as triage, catheterization and the assessment of shock and dyspnoea, sit alongside chapters that cover system specific emergencies, ranging from cardiac arrhythmias to uterine prolapse, and from corneal ulceration to fractures and luxations. The text is fully illustrated throughout.

- Highly practical
- Updated to reflect current knowledge in this crucial area
- Illustrated throughout

Pain Management in Veterinary Practice provides veterinary practitioners with the information needed to recognize and manage pain in a wide range of large, small, and exotic animal species. Encompassing acute, adaptive, and chronic, maladaptive pain, the book provides an up-to-date review of the physiology and pathophysiology of pain. Pain Management in Veterinary Practice offers specific strategies for addressing pain in animals, including local and regional analgesia, continuous rate infusions, and novel methods of analgesic drug delivery. With comprehensive information on the pharmacokinetic and pharmacodynamic characteristics of analgesic drugs, the book goes beyond pharmaceutical options to incorporate scientific information on techniques for complementary treatment, including physical therapy, acupuncture, chiropractic techniques, and nutritional strategies. Pain Management in Veterinary Practice is a valuable resource for developing pain management protocols in the veterinary clinic.

Fluid, electrolyte, and acid-base disorders are central to the day-to-day practice of almost all areas of patient-centered medicine – both medical and surgical. Virtually every aspect of these disorders has experienced major developments in recent years. Core Concepts in the Disorders of Fluid, Electrolytes and Acid-Base Balance encompasses these new findings in comprehensive reviews of both pathophysiology and clinical management. In addition, this volume offers clinical examples providing step-by-step analysis of the pathophysiology, differential diagnosis, and management of selected clinical problems. Written by leading experts in fluid, electrolyte, and acid-base disorders, this reference is an invaluable resource for both the nephrologist and the non-specialist physician, or medical trainee.

Veterinary Technician's Manual for Small Animal Emergency and Critical Care, Second Edition provides an in-depth and cutting-edge, yet easy-to-navigate, reference on emergency and critical care for veterinary paraprofessionals of all skill levels. Provides a comprehensive reference on emergency and critical care medicine for veterinary technicians of all skill levels, and veterinary assistants. Veterinary

Technician's Manual for Small Animal Emergency and Critical Care, Second Edition provides an in-depth and cutting-edge, yet easy-to-navigate, reference on emergency and critical care for veterinary paraprofessionals of all skill levels. Written by leading veterinary technician specialists (VTS) in emergency and critical care Completely revised and substantially updated, with new emphases on anatomy, physiology, nursing skills, and evidence based medicine Features five new chapters covering mechanical ventilation, pain management, renal replacement therapy, nursing skills and procedures, and life as an emergency veterinary technician, including topics such as salary, compassion fatigue, and scheduling Includes access to a companion website with chapter review questions and the images from the book for download in PowerPoint

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