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

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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.

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.

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 to help you think through the surgery. 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 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.

Your step-by-step guide to key emergency and critical care procedures and hands-on nursing care. Whether you need to know how to prioritize 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 essentialskills. 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 themanagement 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.

Updated and expanded, the new 6th edition of this popular text remains the only comprehensive resource for veterinary internal medical problems! This internationally acclaimed "gold standard" offers unparalleled coverage of pathophysiology, diagnosis, and treatment of diseases affecting dogs and cats. Focusing on the clinical manifestations of disease and approaching disease in terms of the organ system involved, this comprehensive resource presents the latest information on specialties ranging from oncology, immunology, and reproductive problems, to skeletal and joint disorders, gastroenterology, and more. The revolutionary Ettinger e-dition offers the convenience of a book, plus the added functionality of exclusive access to a regularly updated companion website - for the life of the 6th edition of Textbook of Veterinary Internal Medicine. With access to the Ettinger web site, you can access an online, fully searchable and cross-referenced version of Textbook of Veterinary Internal Medicine, 6e by Stephen Ettinger. The web site includes the full text of the complete book, frequent updates to chapters, video clips and other multimedia elements, references linked to Pub Med, Grand Rounds case presentations, an electronic drug formulary, customized Client Information series handouts, and more! The only encyclopedia for veterinary internal medicine problems! The most common clinical signs are logically presented and discussed. Algorithms aid in disease identification and decision making. Information on the physical examination sharpens your examination skills. Expanded clinical signs provide more clues to your patients' conditions. The cardiovascular section is presented in a new, more logical format. Search the entire text online, complete with periodic updates and added features. Full search capabilities allow you to search the complete text by
keyword or topic. Weekly updates keep you informed on important advances in the field. Animations and other color graphics bring chapters to life. Client information handouts make it easy to convey take-home points. A Grand Rounds feature highlights a particular patient case of interest every month. The physical examination process has been added to aid in the instruction of this important skill. Expanded clinical signs help readers identify even more signs. A review of tropical medicine topics and public health aspects of small animal disease covers newly emerging tropical diseases in small animals. Information has been added on hemodialysis. Expanded content includes information on dietary considerations, vaccination protocols, feline cancer, compassionate care, and gastrointestinal tracts. The cardiovascular section is presented in a new, more logical format. Appendices have been updated for quick reference. Your purchase entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. If the next edition is published less than one year after your purchase, you will be entitled to online access for one year from your date of purchase. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should access to the web site be discontinued.

This comprehensive reference provides readers with everything they need to know about diagnosing and treating canine and feline respiratory disease. Significantly updated and expanded, it focuses on localization of disease, efficient diagnostic testing, and appropriate therapy. With more images, discussion, and diagrams, this Second Edition includes more detail and new information throughout, particularly in the areas of antimicrobial guidelines, anti-fungal therapies, and anti-viral medications in cats. Logically organized for ease of use in the practice setting, Canine and Feline Respiratory Medicine, Second Edition features problem-based learning to enhance working knowledge of the topics discussed. Chapters cover localization of disease, respiratory diagnostics, therapeutic approaches, nasal disorders, and diseases of airways. Sections on parenchymal disease; pleural and mediastinal disease; and vascular disorders are also presented. Offers a complete guide to the diagnosis and treatment of respiratory conditions in canine and feline patients—now expanded to include more detailed and advanced information.

Focuses on localization of disease, diagnostic testing, and appropriate therapy. Thoroughly updated with new antimicrobial guidelines, the latest information on ant-fungal therapy, and new advances in ant-viral medications in cats. Includes many new images and topics for discussion. Features problem-based learning exercises to support a working understanding of the topics discussed. Canine and Feline Respiratory Medicine is an essential resource for veterinary internal medicine specialists, general practitioners, and veterinary students.

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 technologists and nurses. Written by leading veterinary technician specialists (VTS) in emergency and critical care, this Second Edition provides an in-depth and cutting-edge, yet easy-to-navigate, reference on emergency and medical 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. 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 PDF format.

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

Dr. 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 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 clear and concise 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. 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 encounters 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 monofluorooacetate

Historically, 20% of all injured combatants die on the battlefield before they can be evacuated to a field hospital. Blood loss--hemorrhage--is the single major cause of death among those killed in action whose lives might otherwise be saved. Fluid resuscitation and the treatment of hypovolemia (the abnormally decreased volume of circulating fluid in the body) offer the greatest opportunity for reducing mortality and morbidity associated with battlefield casualties. In Fluid Resuscitation, a committee of experts assess current resuscitation fluids and protocols for the treatment of combat casualties and make recommendations for future research. Chapters focus on the pathophysiology of acute hemorrhagic shock, experience with and complications of fluid resuscitation, novel approaches to the treatment of shock, protocols of care at the site of injury, and future directions for research. The committee explicitly describes the similarities and differences between acute medical care during combat and civilian

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emergency trauma care. Fluid Resuscitation should help energize and focus research in both civilian and military emergency care and help save the lives of citizens and soldiers alike.

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.

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.

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.

This issue of Veterinary Clinics: Food Animal Practice, guest edited by Drs. Amelia Woolums and Douglas Step, focuses on Bovine Respiratory Disease. This is one of three issues each year selected by the series consulting editor, Dr. Robert A. Smith. Articles in this issue include, but are not limited to: BRD from the 20th century to now: has anything changed?; Mannheimia haemolytica and Pasteurella multocida: how are they changing in response to our efforts to control them?; Mycoplasma bovis: what characteristics of this agent explain the disease that it causes?; Histophilus somni: antigenic changes relevant to BRD; The microbiome and BRD; Viruses in Bovine Respiratory Disease in North America: Knowledge Advances Using Genomic Testing; The Immunology of Bovine Respiratory Disease: Recent Advancements; Host tolerance to infection with the bacteria that cause bovine respiratory disease; How does nutrition influence BRD?; How does housing influence BRD?; Diagnostic tests for BRD; Details to attend to when managing high risk cattle; BRD Vaccination: MLV vs Killed? IN vs Parenteral? What is the evidence?; Timing of BRD Vaccination; Causes, significance, and impact of BRD treatment failure; The effect of market forces on BRD; and The future of BRD management in the era of precision agriculture, rapid DNA sequencing, and bioinformatics.

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.

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.

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.

Perioperative fluid therapy requires the correct selection, amount, and composition of fluids based on the patient’s underlying pathology, state of hydration, and type and duration of surgical stress. Filling a gap in the literature, this source provides a solid foundation to practical perioperative fluid management, fluid solutions, and the utilization of 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: 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.

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.

Nephrology and Urology of Small Animals provides veterinarians with the knowledge needed to effectively diagnose and treat urologic diseases in canine, feline, and exotic patients. Serving as an easy-to-use, comprehensive clinical reference, the text takes an evidence-based approach to detailed coverage of specific diseases and disorders, including etiology and prevalence, clinical signs, diagnosis, treatment, prevention, prognosis, controversies, and references. Coverage also includes practical review of anatomy and physiology of the urinary system, fundamentals of diagnostic testing and therapeutic techniques.

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.

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 pathophysiological 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. Drs. Hélio Atuan de Morais 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. 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 sad refence for practicing physicians, students, residents and fellows.
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. 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, Electrolyte 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.

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 the care of dogs and cats. Information is easy to find and easy to use, with comprehensive coverage including fluid and electrolyte physiology 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.

Small Animal Fluid Therapy, Acid-base and Electrolyte DisordersA Color HandbookCRC Press 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.

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 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.

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.

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.