

The Merck Veterinary Manual 10th Edition

To stem the tide of foodborne illness, it is important to understand the source of the problem. This volume examines pathogenic bacteria, viruses, protozoan parasites, moulds, and mycotoxins in food. It also discusses food-associated antimicrobial resistance and lessons learned from an actual foodborne outbreak. The book also explores clinical aspects of foodborne illness. It is intended for students within the medical field but is also ideal as a reference book for scientists, technologists, and inspectors in public health-related fields who regularly contend with issues related to food microbiology, foodborne infections and intoxications, and food safety.

How man's best friend could help cure man's greatest scourge: "An Emperor of All Maladies for dog lovers" (Dr. Sarah Boston, author of *Lucky Dog: How Being a Veterinarian Saved My Life*). Drawn from extensive research, on-the-ground reporting, and personal experience, this book explores the fascinating role dogs (and cats) are playing in the search for cures for cancer. Learn how veterinarians and oncologists are working together to discover new treatments—cutting-edge therapies designed to help both animals and people suffering from cancer. *Heal* introduces readers to the field of comparative oncology by describing several research projects aimed at finding new therapies for cancers that are similar in dogs and people, including lymphoma, osteosarcoma, breast cancer, melanoma, and gastric cancer. The author, who lost her sister to gastric cancer, also writes about the emerging science behind the remarkable ability of dogs to sniff out early stage cancer and the efforts underway to translate that talent into diagnostic devices for early detection of the disease. In the course of bringing these dogs and their human companions to life, Arlene Weintraub takes her own personal journey from grief to healing, as she shows how man's best friend might be the key to unlocking the mysteries of cancer. "Readers will share Weintraub's growing appreciation for the canine and feline subjects (and their owners) who are helping to advance cancer research." —Publishers Weekly

A vital resource on blood and bone marrow cell morphology in laboratory animal medicine. This fully revised new edition is an essential reference for clinical pathologists in diagnostic laboratories, and medical or veterinary research. The atlas contains over 400 color images of cells from the peripheral blood and bone marrow from a variety of animals encountered in laboratory animal medicine, in health and disease. Key features: New chapter on flow cytometry and its application in terms of routine analyses as a means of identifying abnormalities in cell marker expression, which is of particular relevance for pre-clinical safety assessment Covers the most recent developments in laboratory animal hematology, including parameters measured by the latest generation of analyzers Coverage of a wide range of laboratory animal species, as well as those used in clinical veterinary trials Photomicrographs present normal and abnormal blood cells from a variety of hematological conditions along with descriptive text

This book: "Concepts and Applications in Veterinary Toxicology: An Interactive Guide": covers a broad spectrum of topics related to students specializing in veterinary toxicology and for veterinary medical practitioners. Since the major emphasis of the book is to teach veterinary students, therefore more attention has been given to common toxicants to which several species are exposed including pet animals. The subject of veterinary toxicology is complicated greatly by the wide variations in responses of domestic, companion, aquatic, wild, and zoo species to toxicants. Therefore, emphasis has also been given to species variation and diagnostic toxicology including clinical management that is more relevant to veterinary profession. Key Features · Highlights specialized topics essential for veterinary specialists. · Covers a variety of common toxicants to which several species including pet animals are exposed. · Includes sample questions and answers that are extremely valuable for students, clinical pharmacists, teachers, and academicians in preparing for their board and other examinations.

Cats are one of the most popular pets around, but they are also wild animals. This book, focusing on behavior and well-being, looks at the feline genus as a whole and how our understanding of the domestic cat can help explain wild cat characteristics, and vice versa. Different behaviors are described to indicate what constitutes good welfare in the cat, while the origins of cat behaviour are discussed from an evolutionary basis. This book also covers current topics such as welfare issues with feral cats and human-cat interactions. Providing a veterinary perspective as well as an ethological one, this is an important read for veterinarians, shelter workers, animal behaviourists and students of veterinary medicine and animal welfare, while also being of interest to pet owners.

An interactive introduction to working with animals *Zoology for Kids* invites the next generation of zoologists to discover the animal kingdom through clear, entertaining information and anecdotes, lush color photos, hands-on activities, and peer-reviewed research. Young minds are introduced to zoology as a science by discussing animals' forms, functions, and behaviors as well as the history behind zoos and aquariums. Related activities include baking edible animal cells, playing a dolphin-echolocation game, and practicing designing an exhibit. Young readers can peek into the world of zookeepers and aquarists, veterinarians, wildlife researchers, and conservationists as they "train" their friends, mold a tiger's jawbone, and perform field research in their own backyard. This engaging resource provides readers with new knowledge, a healthy respect for the animal kingdom, and the idea that they can pursue animal-related careers and make a difference to preserve and protect the natural world.

This issue of *Clinics in Laboratory Medicine* provides approaches and diagnostic techniques relating to the assessment of small and exotic animals. Topics covered include: Clinical Approach to Advanced Renal Function Testing in Dogs and Cats; A Laboratory Diagnostic Approach to Hepatobiliary Disease in Small Animals; Diagnosis of Small Intestinal Disorders in Dogs and Cats; Practical Interpretation and Application of Exocrine Pancreatic Testing in Small Animals; Using Cardiac Biomarkers in Veterinary Practice; Use of Lactate in Small Animal Practice; Diagnosis of Disorders of Iron Metabolism in Dogs and Cats; Making Sense of Lymphoma Diagnostics in Small Animal Patients; Hematology of Domestic Ferret; Hematological Assessment in Pet Rabbits: Blood Sample Collection and Blood Cell Identification;

Hematological Assessment in Pet Rats, Mice, Hamsters, and Gerbils: Blood Sample Collection and Blood Cell Identification; Hematological Assessments in Pet Guinea Pigs: Blood Sample Collection and Blood Cell Identification; Avian Hematology; Reptile Hematology; Fish Hematology and Associated Disorders; Evaluation of the Blood Film.

Illustrated with over 1000 color images of the highest quality, *Bovine Pathology: A Text and Color Atlas* is a comprehensive single resource to identifying diseases in dairy cattle, feedlot cattle, and their calves. With summary text describing key features, the book correlates clinical information with pathology and differential diagnoses. The text covers naked-eye macroscopic appearance, through to microscopic pathology, and the immunohistochemistry of infectious agents and tumor markers. Structured by major organ system, the disease entries follow a consistent format and clarity of display. Serving as an essential reference work for veterinary pathologists who perform bovine necropsies, veterinary residents and students, the book is also practical enough for bovine practitioners who need to investigate sudden death losses of cattle on the farm.

A comprehensive review of toxicology for the small animal practitioner! Guest editors Safdar Khan and Stephen Hooser present articles on trends of animal poisoning cases in the USA, use of lipid emulsions, epidemiology of mushroom poisoning cases, toxicology of ADHD drugs, toxicology of human NSAIDs, diagnostic toxicology with emphasis on how to investigate or what to do in food-related outbreaks, toxicology of avermectins (ivermectins, moxidectin, doramectin, selamectin), rodenticides toxicosis, include difethiolone, toxicology of newer pesticides, toxicology of explosives, recently recognized nephrotoxic agents/toxicants, calcium channel blocker toxicosis, adverse effects, and more! The busy exotic animal practitioner will find this unique issue packed with useful, practical information on new and emerging diseases. The majority of the issue will cover the bacterial and viral diseases in pet birds, reptiles, rabbits, amphibians, fish, and small mammals.

Blackwell's Five-Minute Veterinary Consult: Ruminant, Second Edition keeps practitioners completely current with the latest in disease management for ruminants and camelids. Updates the first all-in-one ruminant resource designed specifically for quick information retrieval Provides identically formatted topics for easy searching by alphabetical listing or by discipline, with each topic indicating the species affected Offers fast access to the accumulated wisdom of hundreds of veterinary experts Adds more than 100 new topics, with significant revisions to existing topics Includes access to a companion website with additional topics, client education handouts, and figures

Backyard Poultry Medicine and Surgery is a practical resource offering guidance on developing diagnostic and treatment plans for individual companion poultry or small flocks. Organized by body system to aid in developing a differential diagnosis list for common presenting signs, the book provides all the information clinicians need to effectively treat backyard poultry. Written by experts from both the commercial poultry field and the companion avian field, the book provides thorough coverage of both common and less common diseases of backyard chickens, ducks, and other poultry. The book begins with introductory chapters covering general information, an overview of US laws, and basic husbandry concerns, then moves into specific disease chapters organized by system. The book takes an individual medicine perspective throughout, with photographs, radiographs, and histopathological photomicrographs to illustrate principles and diseases. *Backyard Poultry Medicine and Surgery* is an invaluable guide to diseases and treatments for any practitioners treating backyard poultry. Key Features Offers a practical reference on diseases and treatment of backyard poultry, with clinically relevant information veterinarians need to care for backyard flocks Takes an easy-to-use body system approach to help differentiate between diseases Focuses on individual diagnostic and treatment options for the individual bird or small flock Presents a special chapter on regulatory considerations for medication use in backyard poultry Provides more than 200 photographs, radiographs, and histopathological photomicrographs to illustrate the concepts discussed Includes access to an accompanying website with photographs, videos, and linked references and websites at www.wiley.com/go/greenacre/poultry Cheryl B. Greenacre, DVM, DABVP-Avian, DABVP-ECM, is Professor of Avian and Zoological Medicine at the University of Tennessee's college of Veterinary Medicine in Knoxville, Tennessee, USA. Teresa Y. Morishita, DVM, MPVM, MS, PhD., DACPV, is Associate Dean for Academic Affairs and Professor of Poultry Medicine & Food Safety at Western University college of Veterinary Medicine in Pomona California, USA.

"The Merck Veterinary Manual" (MVM) covers all domestic species and diseases in veterinary medicine worldwide. This completely revised and redesigned new edition of the veterinary classic uses a two-column format and color throughout for easy-to-read text and tables.

Numerous color images enhance and illustrate the text. In addition to extensive revisions and updates, this edition includes a new section on public health and zoonoses, expanded coverage of fish and aquaculture, new chapters on backyard poultry, toxicologic workplace hazards, smoke inhalation, and updated chapters on additional numerous new and emerging topics in veterinary medicine.

Monitoring and Intervention for the Critically Ill Small Animal: The Rule of 20 offers guidance for assessing the patient, interpreting diagnostic test results, and selecting appropriate monitoring procedures. Based on Rebecca Kirby's time-tested Rule of 20, with a chapter devoted to each item on the checklist Provides comprehensive guidance for monitoring a critically ill small animal patient Emphasizes the interplay of each parameter with one another Designed for fast access on the clinic floor, with potentially life-saving ideas, tips, lists and procedures Presents tables, schematics, algorithms, and drawings for quick reference

This issue of *Veterinary Clinics: Small Animal Practice* is a comprehensive update on Common Toxicologic Issues in Small Animals, edited by Dr. Stephen B. Hooser and Dr. Safdar A. Khan. The issue includes updated articles first published in the 2012 issue, including: Animal Poisoning Case Trends in the US; Investigative Diagnostic Toxicology and the Role of the Veterinarian in Pet Food-Related Outbreaks; Pet Food Recalls and Contaminants; Use of Intravenous Lipid Emulsions for Treating Certain Poisoning Cases; Calcium Channel Blocker Toxicity in Dogs and Cats; Management of Attention-Deficit Disorder and Attention-Deficit/Hyperactivity Disorder Drug Intoxication in Dogs and Cats; Toxicology of Frequently Encountered Nonsteroidal Anti-Inflammatory Drugs in Dogs and Cats; Xylitol Toxicosis in Dogs; Toxicology of Avermectins and Milbemycins (Macrocyclic Lactones) and the Role of P-Glycoprotein in Dogs and Cats; Toxicology of Newer Insecticides; Common Rodenticide Toxicoses; Mushroom Poisoning Cases in Dogs and Cats: Diagnosis and Treatment of Hepatotoxic, Neurotoxic, Gastroenterotoxic, Nephrotoxic, and Muscarinic Mushrooms; Differential Diagnosis of Common Acute Toxicologic Versus Nontoxicologic Illness; Common Reversal Agents/Antidotes in Small Animal Poisoning; and two new articles on the Toxicity of Marijuana & Synthetic Marijuana, and Radiation Emergencies.

Skijoring, or being pulled on skis by a dog in harness, is a great sport in which almost everyone—and almost any breed of dog—can participate. It requires little beyond a pair of skis and a dog with a desire to pull. The second edition of this popular and practical guide to the sport covers what equipment is needed, how to teach a dog to pull, and how to work with your dog year-round. Although it is geared toward beginners, *Skijor with Your Dog* offers plenty of useful information for experienced skijorers as well, including racing tips, how to involve children, how to camp and travel with dogs, and how to train for competition. The book also covers canicross, bikejoring, and other ways to work with dogs when there's no snow. With this book in hand, readers will have all the information they need to begin enjoying the outdoors with their dogs in a whole new way.

Gain the skills you need to master the role of the veterinary technician in large animal care! *Large Animal Clinical Procedures for Veterinary Technicians, 4th Edition* teaches you how to set up, assist, and follow through on medical procedures and treatment regimens for large domestic animals. A comprehensive guide, this text not only defines the veterinary technician's responsibilities in daily livestock care and hospital management, but includes separate sections on horses, cattle, sheep and goats, pigs, and llamas and alpacas - covering husbandry, clinical procedures, surgical procedures, and common diseases for each. This new edition includes information on safety and handling, livestock nutrition, vaccine scheduling, and diagnostic imaging, plus four new chapters with detailed care of poultry. Written by noted

veterinary technician educator Kristin Holtgrew-Bohling, it is the ideal text for preparing for certification exams and everyday practice! The most comprehensive large animal book specifically written for veterinary technician students. A practical approach makes this text useful in classes and in clinical situations, so veterinary technicians, acting under instructions of veterinarians, can plan and follow through on procedures and treatment regimens for large animals. A focus on the veterinary technician's responsibilities explains why and how a procedure is performed, and the roles that vet techs fill in preparing for, assisting in, and following up the procedure. Coverage of the essential large animal-related tasks in the CVTEA Manual of Accreditation for Veterinary Technology Programs addresses AVMA accreditation and prepares you to pass the Veterinary Technology National Exam. Full-color photographs and line drawings show step-by-step procedures in areas such as restraint, bandaging, physical examination techniques, and diagnostic procedures. Coverage of husbandry and breeds demonstrates how day-to-day housing and feeding affect the care of many large animal diseases, and helps you learn to provide quality client education. A section on the livestock industry provides comprehensive coverage of safety and handling, reproduction, and nutrition, so you can better understand the practices, procedures, and decisions in large animal veterinary medicine. A section on llamas and alpacas helps you to understand the health and maintenance of these increasingly popular domestic animals — in the U.S., there are more than 12,000 alpaca herds and 25,000 llama owners. Proper medical terminology is included in a comprehensive glossary, facilitating effective communication with clients and with other professionals. Learning features enhance your critical thinking and decision making with case studies, clinical applications, key terms, chapter outlines, learning objectives, and Technician Notes. NEW! Tables on Temperature, Pulse, Respiration (TPR) data and vaccine schedules provide a quick, at-a-glance reference for important information. NEW! Expanded regulatory information for livestock provides details on OCV vaccination, Health Certificate forms, Brucellosis and Tuberculosis testing, and Scrapies tags. NEW! Four new chapters on Poultry provide detailed coverage of the breed.

Field Manual for Small Animal Medicine offers anyone working in resource-limited environments a practical resource for delivering veterinary care outside the traditional hospital or clinic setting. Offers the only comprehensive resource for best practices when practicing veterinary medicine in resource-limited environments Integrates practical and cost-effective protocols where the ideal solution may not be available Presents information on vital topics such as operating a field spay/neuter clinic, emergency sheltering, sanitation and surgical asepsis, preventive care practices, zoonotic diseases, and euthanasia Serves as a quick reference guide for common surgical procedures, cytology interpretation, anesthesia and treatment protocols, and drug dosing

Long-trusted in the field, Cowell & Tyler's Diagnostic Cytology and Hematology of the Dog and Cat, 5th Edition is the complete resource for helping you learn the necessary skills to diagnosis and treat dogs and cats. This essential clinical reference includes detailed illustrations to help you quickly and accurately build a treatment plan for hundreds of medical diagnoses. Microscopic evaluation techniques and interpretation guidelines for organ tissue, blood, and other body fluid specimens provide a basic understanding of sample collection and specimen preparation. In addition, algorithms are generously distributed throughout the text, helping you evaluate various cytologic preparations. Written by a team of experts, this fifth edition includes over 150 new, high-resolution photomicrographs and histopathology images, and a new chapter covering the Female Reproductive Tract. Additionally, an Expert Consult website features the entire text plus an electronic atlas with more than 1,000 full-color photomicrographs depicting abnormalities within each blood cell line! UPDATED! Revised chapters throughout the text give you the most complete and up-to-date coverage of recently recognized conditions, new terminology, and new procedures. Coverage of the basics of specimen collection, preparation, microscopic evaluation, and interpretation for organ tissues, blood, and other body fluids saves you time by having comprehensive information in one all-inclusive resource. Detailed instructions for submission and transport of samples as well as culture and commercial laboratory interpretation guide you through in-house laboratory evaluation. User-friendly, easy-to-follow algorithms and tables facilitate quick access to necessary information and guide you to the most accurate cytologic diagnosis. Over 1,300 vivid, high-resolution images let users zoom in to help identify normal vs. abnormal cells, enabling you to make accurate diagnoses. Contributions from nearly 50 academic and diagnostic laboratory experts provide you with the best and most current information available. NEW and UNIQUE! Expert Consult website has entire text plus an electronic atlas including the Zoomify feature which allows you to zoom in and out of more than 1,000 full-color photomicrographs depicting abnormalities within each blood cell line. NEW! Female Reproductive Tract chapter provides updated coverage of vaginal cytology and includes all-new information on uterine and ovarian aspirates. NEW! More than 150 high-resolution photomicrographs and histopathology images help you identify normal vs. abnormal cells, tissues, and lesions. NEW! Enhanced section on urinalysis with all-new images helps you to identify various types of crystals in urine sediment.

Food is the first necessity for humans to survive with huge amounts of food consumed daily worldwide. Globalization of food industry results in an increasingly complex food chain, making food safety a universal issue. Many millions of people in the world become sick while hundreds of thousand die annually due to consumption of contaminated food. Pathogenic bacteria contaminate food at any stages in the food chain, including production, processing, supplying, and storage. The most commonly known bacterial pathogens associated with human foodborne diseases worldwide are Salmonella enterica, Campylobacter jejuni, Escherichia coli, Listeria monocytogenes, Cronobacter sakazakii, Vibrio cholerae, and Vibrio parahaemolyticus. This eBook includes publications on recent discoveries in genetic diversity, prevalence, resistance and novel transmission vectors; molecular mechanisms underlying the pathogenesis; and new compounds and treatment strategies for better control of the human foodborne pathogenic bacteria. The information in the articles supports the urgent need for improving food safety and public health, particularly in globalization background.

Encyclopedia.

The latest information on diagnostic pathology for the food animal practitioner! Topics include respiratory diagnostics and pathology, diagnostics of dairy and beef calf diarrhea, gastrointestinal diagnostics and pathology in feedlot cattle, neuropathology and diagnostics in food animals, musculoskeletal and integument pathology in food animals, mastitis diagnostics, ruminant toxicology diagnostics, camelid pathology and diagnostics, abortion diagnostics, field necropsy and diagnostic sample submission, population approaches to diagnostics and epidemiology, and more!

This book summarizes current advances in our understanding of how infectious disease represents an ecological interaction between a pathogenic microorganism and the host species in which that microbe causes illness. The contributing authors explain that pathogenic microorganisms often also have broader ecological connections, which can include a natural environmental presence; possible transmission by vehicles such as air, water, and food; and interactions with other host species, including vectors for which the microbe either may or may not be pathogenic. This field of science has been dubbed disease ecology, and the chapters that examine it have been grouped into three sections. The first section introduces both the role of biological community interactions and the impact of biodiversity on infectious disease. In turn, the second section considers those diseases directly affecting humans, with a focus on waterborne and foodborne illnesses, while also examining the critical aspect of microbial biofilms. Lastly, the third section presents the ecology of infectious diseases from the perspective of their impact on mammalian livestock and wildlife as well as on humans. Given its breadth of coverage, the volume offers a valuable resource for microbial ecologists and

biomedical scientists alike.

Revision of: Handbook of behavior problems of the dog and cat. 2003.

How to raise goats for meat, milk or bucolic companionship.

A quick, concise reference to the drugs and dosages used to treat exotic animals, Exotic Animal Formulary, 4th Edition addresses the most common questions and medical situations you encounter in clinical practice. Species covered include birds, fish, amphibians, reptiles, primates, wildlife, and all kinds of small mammals and "pocket pets." This edition is updated with a new chapter on invertebrates, information on the latest drugs, and a colorful new design. Written by clinical and research veterinarian James Carpenter, this book is the only drug formulary on the market created solely for the treatment of exotic animals. Nearly 200 drug tables provide clear, current recommendations on drugs, indications, and dosages used in treating exotic animals, including biological tables with details on therapies and diets, normal blood parameters of common species, venipuncture sites, differential diagnosis, and medical protocols for common conditions. All drug information is reviewed for accuracy, ensuring that this reference remains authoritative and current. Easy-to-use organization divides drug monographs into quick-reference chapters including: Invertebrates, Fish, Amphibians, Reptiles, Birds, Sugar Gliders, Hedgehogs, Rodents, Rabbits, Ferrets, Miniature Pigs, Primates, and Wildlife. Additional drug topics include antimicrobial, antifungal, and antiparasitic agents. More than 20 expert authors contribute to this edition. References in each chapter provide resources for further research and study. Convenient appendices provide a single source for information such as classes of drugs used to treat specific exotic animal conditions; efficacy of selected agents used to treat exotic animals; location of select laboratories to perform procedures; normal lab values; conversions; and equivalents. New Invertebrates chapter has been added. New two-color design makes information easier to access at a glance, with drug and biological tables shaded differently for fast lookup. Updated information includes coverage of the latest drugs introduced into the market. Electronic access is available via Pageburst, making it easy to search topics and drugs. Sold separately.

Long acting veterinary formulations play a significant role in animal health, production and reproduction within the animal health industry. Such technologies offer beneficial advantages to the veterinarian, farmer and pet owner. These advantages have resulted in them growing in popularity in recent years. The pharmaceutical scientist is faced with many challenges when innovating new products in this demanding field of controlled release. This book provides the reader with a comprehensive guide on the theories, applications, and challenges associated with the design and development of long acting veterinary formulations. The authoritative chapters of the book are written by some of the leading experts in the field. The book covers a wide scope of areas including the market influences, preformulation, biopharmaceutics, in vitro drug release testing and specification setting to name but a few. It also provides a detailed overview of the major technological advances made in this area. As a result this book covers everything a formulation scientist in industry or academia, or a student needs to know about this unique drug delivery field to advance health, production and reproduction treatment options and benefits for animals worldwide.

Human Diseases from Wildlife presents information on the most prevalent and serious zoonotic diseases in the US and Canada, some of which have been national headline news like anthrax, influenza, and West Nile virus. Diseases that are caused by pathogens with the ability to infect both humans and animals are known as zoonotic diseases, which literally means "disease from animals." The issue of human-wildlife disease interactions is a growing concern as humans continue to interface with wildlife. People who handle wildlife including field workers, wildlife professionals, trappers, and hunters want to know about potential diseases, risks, and how to protect themselves from disease. This book was written because many people are uninformed about zoonotic diseases. This lack of information causes some people to have a heightened fear of zoonotic diseases, preventing them from enjoying wildlife or spending time outdoors. Other people needlessly expose themselves to disease by neglecting simple precautions. This book includes information on bacterial, spirochetal, rickettsial, and viral diseases as well as macroparasites and emerging zoonotic diseases. More than two dozen diseases are covered including rabies, tularemia, baylisascariasis, salmonellosis, leprosy, Lyme disease, Rocky Mountain spotted fever, and swimmer's itch. Each chapter contains the history of the disease, symptoms in humans, medical treatment, transmission of pathogens to humans, the role of wildlife as vectors, and methods to minimize risk. The diseases people can contract from wild animals can be both threatening and fascinating, and the book includes interesting information to make it more enjoyable to read.

Canine and Feline Geriatric Oncology: Honoring the Human-Animal Bond, Second Edition provides a complete clinical approach to the most common neoplasias in geriatric dogs and cats. Provides the tools needed to diagnose and treat aging pets with cancer and to help clients make the best decisions for themselves and their animals Addresses the "what-ifs" that often arise during interactions with clients of aging pets with cancer and helps to determine when a pet should enter the hospice phase Features many vignettes and real-life case studies to demonstrate the issues faced by clinicians and owners dealing with older dogs and cats with cancer and end-of-life issues Fully updated and expanded with new and revised information, including new knowledge on palliative and hospice care and self-care techniques for carers This book primarily focuses on the African Sahel region, shedding new light on the epidemiology, socio-economics, clinical manifestations and control approaches of transboundary animal diseases (TADs) in this specific region. In addition to the description of TADs in Sahelian Africa and connected regions, several issues regarding the burden of TADs, the role of national/regional/international veterinary organizations in the surveillance process, animal mobility, one health and TADs in the dromedary are discussed. The book contains 22 chapters and is structured in three parts, i- general features and commonalities, ii- viral diseases, iii- bacterial diseases. Each chapter was written by a group of experts specialized in the topic. This work will be of general interest to researchers, veterinarians, veterinary public health officers, and students engaged in the surveillance and control of animal infectious diseases, included those of zoonotic

nature and that are prevalent in the Sahel.

The Merck Veterinary Manual John Wiley & Sons

An insightful exploration of the key aspects concerning the chemical analysis of antibiotic residues in food The presence of excess residues from frequent antibiotic use in animals is not only illegal, but can pose serious health risks by contaminating products for human consumption such as meat and milk. Chemical Analysis of Antibiotic Residues in Food is a single-source reference for readers interested in the development of analytical methods for analyzing antibiotic residues in food. It covers themes that include quality assurance and quality control, antibiotic chemical properties, pharmacokinetics, metabolism, distribution, food safety regulations, and chemical analysis. In addition, the material presented includes background information valuable for understanding the choice of marker residue and target animal tissue to use for regulatory analysis. This comprehensive reference: Includes topics on general issues related to screening and confirmatory methods Presents updated information on food safety regulation based on routine screening and confirmatory methods, especially LC-MS Provides general guidance for method development, validation, and estimation of measurement uncertainty Chemical Analysis of Antibiotic Residues in Food is written and organized with a balance between practical use and theory to provide laboratories with a solid and reliable reference on antibiotic residue analysis. Thorough coverage elicits the latest scientific findings to assist the ongoing efforts toward refining analytical methods for producing safe foods of animal origin.

This new edition of Rabbit Production has been fully updated throughout. Mainly concerning rabbits bred for meat and fur, it also contains practical information on pet rabbits, show rabbits and rabbits used as laboratory animals. Core topics are covered, including rabbit genetics, reproduction, health and diseases, behavior, welfare, fur and meat production, rabbit production in developing countries, slaughter and the marketing of rabbit products. Current areas of interest such as animal welfare and coat color genetics are expanded in the new edition. An important resource for all those involved in rabbit production, this book is also vital reading for students and researchers of animal science and meat production, as well as the keen amateur rabbit enthusiast.

This comprehensive handbook summarizes dermatological drugs for feline and canine patients. It covers oral, topical and injectable medications suitable for cats and dogs. Vital information given for each drug includes: indications, contraindications, mechanism of action, dosage, formulations, side-effects, drug interactions and monitoring. Both American and European trade names are provided alongside generic names for ease of reference. The book is divided into 4 sections. The first covers systemic dermatological agents. The second section presents topical dermatological agents. The third section covers allergen-specific immunotherapy. The fourth section lists dermatological conditions and the drugs commonly used to treat each disease, and directs the reader to the information on those drugs. Canine and Feline Dermatology Drug Handbook is an essential reference for quick daily use in a clinical setting. Ideal for veterinarians in first opinion practice as well as those specializing in dermatology. KEY FEATURES Lists drugs alphabetically for treatment of dermatological diseases in dogs and cats Covers oral, topical and injectable drugs Includes both American and European trade names Written by dermatology and pharmacology specialists Presented in an easy-to-use reference format

Designed specifically for veterinary technicians, this essential resource offers detailed guidance on key topics such as managing medication inventory, dispensing veterinarian prescribed drugs, calculating drug dosages, administering medications to animals, and educating clients about drug side effects and precautions. Up-to-date drug information is presented in a consistent, easy-to-use format that includes pharmacokinetics, pharmacodynamics, clinical uses, dosage forms, and adverse side effects. Illustrated, step-by-step procedures demonstrate proper administration techniques for common drug forms. Like getting two books in one, this resource combines the comprehensiveness of a veterinary pharmacology text with coverage of pharmacologic fundamentals that are essential to veterinary technician practice. Learning Objectives at the beginning of each chapter help you focus your study efforts and check your progress as you work through the material. Chapter outlines provide at-a-glance overviews of the topics featured in each chapter, making it quick and easy to find information. Key Terms lists with definitions familiarize you with the terminology used in each chapter. Technician's Notes boxes throughout the book provide useful hints and important reminders to help you avoid common errors and increase your efficiency. Coverage of inventory control offers practical tips on performing this important task, including understanding the different vendor types, communicating with sales representatives, and using veterinary practice management computer software. Detailed summaries of important drug laws, such as the Animal Medicinal Drug Use Clarification Act and the Animal Drug Availability Act, introduce you to the legal and ethical aspects of veterinary pharmacology. A companion Evolve website offers 137 photographs of drug labels to familiarize you with the labels you will see in practice, six drug dosage calculators with related exercises to help you strengthen your drug calculation skills, and 12 videos that show you how to administer oral, inhaled, and injectable drugs. Proprietary drug names are listed along with generic names to help you learn to recognize drugs with generic options. Additional review questions in this edition help reinforce your understanding of key concepts. Answers are located in the back of the book so you can check the accuracy of your responses. The chapter on Drugs Used in Skin Disorders offers expanded coverage of the anatomy and physiology of the skin, as well as information on the latest drugs used to treat skin disorders.

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