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KEY=PROCEDURES - JANELLE SIERRA

MANUAL OF CLINICAL PROCEDURES IN DOGS, CATS, RABBITS, AND RODENTS

John Wiley & Sons Manual of Clinical Procedures in Dogs, Cats, Rabbits, and Rodents is the third edition of this esteemed veterinary medicine classic. The Third Edition offers readers expanded coverage of small exotic mammals such as gerbils, hamsters, and guinea pigs, alongside a thorough revision of the common procedures for dogs, cats, and rabbits. Organized in the same user-friendly format of earlier editions, the Manual is an essential purchase for small and exotic animal veterinarians and veterinary technicians.

CROW AND WALSHAW'S MANUAL OF CLINICAL PROCEDURES IN DOGS, CATS, RABBITS AND RODENTS

John Wiley & Sons Crow & Walshaw's Manual of Clinical Procedures in Dogs, Cats, Rabbits, & Rodents, Fourth Edition provides practical, up-to-date information on common veterinary procedures for gerbils, hamsters, guinea pigs, dogs, cats and rabbits with detailed line drawings and photographs that demonstrate not only pertinent anatomical relationships, but also operational motions. A classic veterinary clinical manual Provides practical, up-to-date information on common veterinary procedures Detailed line drawings and photographs demonstrate pertinent anatomical relationships and operational motions Companion website offering interactive multiple choice questions and answers, and images from the text in PowerPoint

CROW AND WALSHAW'S MANUAL OF CLINICAL PROCEDURES IN DOGS, CATS, RABBITS, AND RODENTS

Crow & Walshaw's Manual of Clinical Procedures in Dogs, Cats, Rabbits, & Rodents, Fourth Edition provides practical, up-to-date information on common veterinary procedures for gerbils, hamsters, guinea pigs, dogs, cats and rabbits with detailed line drawings and photographs that demonstrate not only pertinent anatomical relationships, but also operational motions.

FERRETS, RABBITS AND RODENTS - E-BOOK

CLINICAL MEDICINE AND SURGERY

Elsevier Health Sciences A concise guide to the care of small mammals, Ferrets, Rabbits, and Rodents: Clinical Medicine and Surgery covers the conditions seen most often in veterinary practice. The book emphasizes preventive medicine along with topics including disease management, ophthalmology, dentistry, and zoonosis. More than 400 illustrations demonstrate key concepts related to radiographic interpretation, relevant anatomy, and diagnostic, surgical, and therapeutic techniques. Now in full color, this edition adds coverage of more surgical procedures and expands coverage of zoonotic disease. From editors Katherine Quesenberry and James W. Carpenter, along with a team of expert contributors, the "Pink Book" provides an authoritative, single source of information that is hard to find elsewhere. A logical organization makes it quick and easy to find important information, with each section devoted to a single animal and chapters within each section organized by body system. Over 400 photographs and illustrations highlight key concepts such as radiographic interpretation and the main points of diagnostic, surgical, and therapeutic techniques. A chapter on ophthalmology provides hard-to-find information on eye care for ferrets, rabbits, rodents, and other small mammals. Coverage of preventive medicine includes basic biology, husbandry, and routine care of the healthy animal. The drug formulary supplies dosage instructions for ferrets, rabbits, guinea pigs, chinchillas, hamsters, rats/mice, prairie dogs, hedgehogs, and sugar gliders. Chapter outlines offer at-a-glance overviews of the contents of each chapter. Handy tables and charts make it easy to find key information. Expanded Zoonotic Diseases chapter adds more depth along with the latest information on the rising potential for disease transmission to humans as exotic pets become more popular. Additional surgical procedures for each species are included, some with step-by-step instructions accompanied by color photographs and line drawings. Full-color images show the sometimes minute structures of these small animals and make accurate diagnoses easier, especially for lymphoproliferative diseases of rabbits, endoscopy, cytology, and hematology.

NECROPSY GUIDE FOR DOGS, CATS, AND SMALL MAMMALS

John Wiley & Sons Necropsy Guide for Dogs, Cats, and Small Mammals is a complete, practical resource for performing necropsies on dogs, cats, rabbits, rodents, and ferrets in the veterinary clinic, animal shelter, research laboratory, or in the field. Provides practical guidance on all aspects of performing an necropsy on dogs, cats, and small mammals and interpreting the results Presents more than 200 full-color images to demonstrate techniques and findings Offers step-by-step instructions for the necropsy process and collecting samples Includes an anatomy review, discussion of dissection techniques, and list of common artifacts and post-mortem changes for each organ system Supports veterinarians in performing a necropsy in any setting, including animal shelters, veterinary clinics, research laboratories, and in the field

CODE OF PRACTICE FOR THE HOUSING AND CARE OF ANIMALS BRED, SUPPLIED OR USED FOR SCIENTIFIC PURPOSES

GUIDE FOR THE CARE AND USE OF LABORATORY ANIMALS

EIGHTH EDITION

National Academies Press A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the

judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

LABORATORY ANIMAL ANAESTHESIA

Academic Press Laboratory Animal Anesthesia looks at recent significant developments in anesthetic practices in laboratory experiments involving animals. It also provides information about basic standards for proper use of anesthesia. In addition, it examines the equipment and different anesthetic agents that are used in performing an experiment on animals. The book also discusses the profound effects of anesthesia on the physiological aspect of the animals' body systems, such as hypothermia and respiratory depression. The book addresses the proper management and care that should be provided for the animals that undergo anesthesia. Furthermore, it covers different anesthetic procedures that should be used on various kinds of small animals intended for laboratory experiments. The main goal of this book is to provide information about the different anesthetic agents used in experiments, and the proper standards to follow when using anesthetics on lab animals.

- New edition provides new information on anesthesia and analgesia, and has an extensively revised and updated bibliography
- Provides a balanced consideration of the needs of scientific research and the welfare of laboratory animals
- Written by a veterinary anesthetist and scientist with over 30 years' experience in the field, and who is actively engaged in research in this area
- Provides rapid, easily accessed information using tabulated summaries
- Provides those with limited experience of anesthesia with the information they need to carry out procedures effectively, safely, and humanely
- Provides sufficient depth for the more experienced anesthetist moving to this field

USE OF LABORATORY ANIMALS IN BIOMEDICAL AND BEHAVIORAL RESEARCH

National Academies Press Scientific experiments using animals have contributed significantly to the improvement of human health. Animal experiments were crucial to the conquest of polio, for example, and they will undoubtedly be one of the keystones in AIDS research. However, some persons believe that the cost to the animals is often high. Authored by a committee of experts from various fields, this book discusses the benefits that have resulted from animal research, the scope of animal research today, the concerns of advocates of animal welfare, and the prospects for finding alternatives to animal use. The authors conclude with specific recommendations for more consistent government action.

LABORATORY ANIMAL AND EXOTIC PET MEDICINE - E-BOOK

PRINCIPLES AND PROCEDURES

Elsevier Health Sciences Learn the veterinary technician's role in the care of exotic pets and animals used in biomedical research! **Laboratory Animal and Exotic Pet Medicine: Principles and Procedures, 3rd Edition** helps you gain the knowledge and skills needed to ensure animal health and well-being. It covers animal husbandry, restraint and handling, and diseases, and provides guidelines to key clinical procedures such as blood collection, medication administration, anesthesia, and diagnostic imaging. Research-related information addresses the ethical concerns of exotic pet ownership, as well as the benefits and humane use of animals in research. Written by noted veterinary technology educator Margi Sirois, this text is a must-have resource for all caretakers of lab animals. Comprehensive coverage prepares you to work with all types of animals by addressing a wide variety of species including rats, mice, rabbits, guinea pigs, ferrets, hamsters, gerbils, nonhuman primates, amphibians, fish, reptiles, birds, farm animals, and cats and dogs; it also covers topics such as animal species, the laboratory setting, regulatory guidelines, and ethical considerations. Consistent organization of each species chapter makes it easy to quickly identify similarities and differences among various laboratory animals. Current information on legal, moral, and ethical issues includes legal requirements, the protocols guiding lab animal use, animal exploitation, and animal rights. Discussion of specific uses for each species in biomedical research provides a perspective that helps you explain the benefits of animal use in providing high-quality research data. Technician Notes highlight important points and provide helpful tips to improve your knowledge and skills. Learning objectives, key points, and chapter review questions make studying easier. **NEW!** Comprehensive coverage of poultry includes the increasingly popular backyard chickens, as well as commonly performed procedures and in-depth information on housing, restraint, nutrition, common diseases, diagnostics, and therapeutics. **NEW** photographs show the latest technology available in laboratory and exotic animal medicine.

LABORATORY ANIMAL AND EXOTIC PET MEDICINE - E-BOOK

PRINCIPLES AND PROCEDURES

Elsevier Health Sciences Learn how to properly handle and care for lab animals and exotic species with **Laboratory Animal and Exotic Pet Medicine, Principles and Procedures, 2nd Edition**. This comprehensive resource provides the latest anatomy, physiology, and taxonomy information on a wide variety of species — including birds, reptiles and amphibians, rats and mice, guinea pigs, hamsters, rabbits, gerbils, ferrets, wildlife, woodchucks, armadillos, frogs, and fish. Coverage also includes a

number of commonly performed procedures (such as blood collection, medicine administration, and animal husbandry) and in-depth information on housing, restraint, nutrition, common diseases, diagnostics, and therapeutics. Research-related information, including legal and ethical issues surrounding exotic animals being kept as pets, as well as the humane use of animals in research, make this text a must-have resource for any aspiring vet tech or professional who must work with lab animals. Comprehensive coverage addresses a wide variety of species (rats, mice, guinea pigs, hamsters, gerbils, ferrets, rabbits, nonhuman primates, swine, chinchillas, armadillos, amphibians, reptiles, birds, fish, farm animals, and cats and dogs) and covers a wide variety of topics (such as animal species, the laboratory setting, regulatory guidelines, and ethical considerations) to fully prepare students for work with all types of animals. Consistent organization of each species chapter makes it easy for students to quickly identify similarities and differences among various laboratory animals. The latest information on laws and ethics related to lab animal medicine cover the areas of pain management, use, care, and more. Review questions at the end of each chapter allow students to assess their knowledge of the material. Discussion of specific uses for each species in biomedical research gives students a perspective on animal use that allows them to explain the benefits of animal use as required by veterinary technology program accreditation procedure. Boxes and tables list anatomic and physiologic data for each species. **NEW!** Updated design features more high-quality, full-color illustrations and a revised reader-friendly layout with learning objectives and key points to make content easier to follow.

LABORATORY ANIMAL MEDICINE

PRINCIPLES AND PROCEDURES

Mosby This combination text and lab manual provides clinically relevant coverage of laboratory animal medicine and procedures. It covers a variety of species, including rats, mice, guinea pigs, hamsters, rabbits, gerbils, ferrets, nonhuman primates, and in a separate chapter, nontraditional lab animals, such as swine, chinchillas, armadillos, reptiles, amphibians, bats, farm animals, and dogs and cats. Coverage of each species is presented in a consistent format that includes taxonomy, anatomy and physiology, uses in biomedical research, reproduction, behavior, husbandry, restraint and handling, identification methods, injection techniques, medication administration and anesthesia, blood collection, common diseases, and euthanasia. Other key topics include the laboratory setting, regulatory guidelines, and ethical considerations. The lab manual portion of the book features a variety of exercises and observation sheets. Comprehensive coverage of a variety of topics such as animal species, the laboratory setting, regulatory guidelines, and ethical considerations prepares readers for a career in laboratory animal medicine. Familiarizes readers with the handling, behavior, nutrition, and lab and treatment procedures for a large

variety of common and nontraditional laboratory animals The consistent organization of each species chapter makes it easy for readers to quickly identify similarities and differences among various laboratory animals Laboratory exercises are included in a perforated section at the end of the book, allowing users to apply their knowledge and develop job skills Features a wealth of user-friendly features such as a two-color design, learning objectives, key points, and review questions Provides detailed information on specific legal and ethical requirements of lab animal care and use, including the ethics of pain management Convenient boxes and tables provide quick access to important anatomic and physiologic data for each species Discusses specific uses of each species in biomedical research, providing readers with a perspective on animal use that allows them to explain the benefits of animal use as required by veterinary technology program accreditation procedures

RECOGNITION AND ALLEVIATION OF PAIN AND DISTRESS IN LABORATORY ANIMALS

National Academies Press Clear guidelines on the proper care and use of laboratory animals are being sought by researchers and members of the many committees formed to oversee animal care at universities as well as the general public. This book provides a comprehensive overview of what we know about behavior, pain, and distress in laboratory animals. The volume explores: Stressors in the laboratory and the animal behaviors they cause, including in-depth discussions of the physiology of pain and distress and the animal's ecological relationship to the laboratory as an environment. A review of euthanasia of lab animals--exploring the decision, the methods, and the emotional effects on technicians. Also included is a highly practical, extensive listing, by species, of dosages and side effects of anesthetics, analgesics, and tranquilizers.

SECOND REPORT FROM THE COMMISSION TO THE COUNCIL AND THE EUROPEAN PARLIAMENT ON THE STATISTICS ON THE NUMBER OF ANIMALS USED FOR EXPERIMENTAL AND OTHER SCIENTIFIC PURPOSES IN THE MEMBER STATES OF THE EUROPEAN UNION

GUIDANCE ON THE OPERATION OF THE ANIMALS (SCIENTIFIC PROCEDURES) ACT 1986

Anchor Books

VETERINARY EUTHANASIA TECHNIQUES

A PRACTICAL GUIDE

John Wiley & Sons Veterinary Euthanasia Techniques: A Practical Guide provides detailed guidance on euthanasia procedures in a wide variety of species, including dogs, cats, exotics, horses, and production

animals. Based on the current AVMA guidelines, the book offers step-by-step descriptions of the recommended methods of euthanasia, giving all the information needed to perform these techniques with confidence.

Veterinary Euthanasia Techniques helps practitioners, students, and technicians expand their knowledge base and provide competent, compassionate euthanasia services. Including information on client considerations, equipment, positioning, sedation, and aftercare, the focus of the book is on providing detailed procedures for correctly performing euthanasia. **Veterinary Euthanasia Techniques** presents complete information on euthanasia, offering specific advice to improve skills and aid in decision making. Key features: Provides practical how-to guidance for veterinarians, veterinary students, and veterinary technicians in performing or assisting euthanasia procedures; Improves confidence in all euthanasia methods, especially in unfamiliar situations; Offers detailed step-by-step techniques for euthanasia, with additional information on client communication, equipment, and aftercare; Acts as a tool for discussing euthanasia options with clients and in making clinical decisions; Covers a wide variety of species, including dogs, cats, ferrets, rabbits, rodents, reptiles, amphibians, birds, fish, snakes, chelonians, horses, and livestock.

LABORATORY ANIMAL ANAESTHESIA AND ANALGESIA

Academic Press Laboratory Animal Anaesthesia and Analgesia

A GUIDE TO EXOTIC-ANIMAL MEDICINE

BIRDS, RABBITS, FERRETS AND RODENTS

"Compiled from articles published in *Veterinary Medicine*, this resource guide discusses topics including fundamentals of avian practice; restraint and diagnostic techniques for ferrets; diets, feeding practices, and nutritional problems in psittacine birds; common digestive tract disorders in pet birds; caring for pet birds' skin and feathers; how to handle respiratory, ophthalmic, neurologic, and dermatologic problems in rabbits; and recognizing common signs of illness in pet rodents."--Distributor's description.

STATISTICS OF SCIENTIFIC PROCEDURES ON LIVING ANIMALS

GREAT BRITAIN 2010

The Stationery Office Statistics of scientific procedures on living Animals : Great Britain 2010

LABORATORY ANIMAL WELFARE

Academic Press Laboratory Animal Welfare provides a comprehensive, up-to-date look into the new science of animal welfare within laboratory

research. Animals specifically considered include rodents, cats and dogs, nonhuman primates, agricultural animals, avian animals and aquatic animals. The book examines the impact of experiment design and environment on animal welfare, as well as emergency situations and euthanasia practices. Readers will benefit from a review of regulations and policy guidelines concerning lab animal use, as well as information on assessing animal welfare. With discussions of the history and ethics of animals in research, and a debate on contemporary and international issues, this book is a go-to resource for laboratory animal welfare.

LABORATORY ANIMAL MEDICINE

Academic Press Laboratory Animal Medicine is a compilation of papers that deals with the diseases and biology of major species of animals used in medical research. The book discusses animal medicine, experimental methods and techniques, design and management of animal facilities, and legislation on laboratory animals. Several papers discuss the biology and diseases of mice, hamsters, guinea pigs, and rabbits. Another paper addresses the dog and cat as laboratory animals, including sourcing of these animals, housing, feeding, and their nutritional needs, as well as breeding and colony management. The book also describes ungulates as laboratory animals, including topics on sourcing, husbandry, preventive medical treatments, and housing facilities. One paper addresses primates as test animals, covering the biology and diseases of old world primates, Cebidae, and ferrets. Some papers pertain to the treatment, diseases, and needed facilities for birds, amphibians, and fish. Other papers then deal with techniques of experimentation, anesthesia, euthanasia, and some factors (spontaneous diseases) that complicate animal research. The text can prove helpful for scientists, clinical assistants, and researchers whose work involves laboratory animals.

NECROPSY

A HANDBOOK AND ATLAS

Samfundslitteratur A complete and through necropsy is invaluable for diagnosing diseases in animals. In Necropsy - a Handbook and Atlas, all essential and necessary procedures for carrying out necropsies of horses, production animals, dogs and cats, laboratory animals, rabbits, mink, poultry and fish are described in separate chapters. Moreover chapters have also been dedicated to the necropsy of foetal membranes, the brain and the extensive examination of the heart. The authors of each chapter are all experienced diagnosticians, and Necropsy is used during practical courses for veterinary students in special pathology, poultry and fish diseases, and large animals at the University of Copenhagen Denmark. Due to the comprehensive description of the procedures and number of illustration, the book should also fulfill the requirements of a handbook

and atlas for veterinary practitioners and researchers carrying out necropsies as a part of their work.

STATISTICS OF SCIENTIFIC PROCEDURES ON LIVING ANIMALS

GREAT BRITAIN 2003

The Stationery Office This annual publication contains data on animal experimentation carried out during 2003, subject to the provisions of the Animals (Scientific Procedures) Act 1986. Under this Act, any scientific procedure carried out on any living vertebrate animal, and one species of octopus, which is likely to cause pain, suffering, distress or lasting harm is a regulated procedure requiring licence authority. The data is structured to comply with EU requirements, although it is far more extensive than required by Europe. In 2003, there were 2.79 million scientific procedures conducted, an increase of 2.2 per cent on the previous year. Most experiments and tests were conducted on mice, rats and other rodents (85 per cent), with the remainder on birds (four per cent) and fish (six per cent). Dogs, cats, horses and non-human primates (usually macaques and marmosets) combined amounted to less than one per cent of procedures. Genetically modified animals were used in 27 per cent of cases, an increase of one per cent on 2002 and 19 per cent on 1995). Non-toxicological procedures accounted for 84 per cent of procedures, with the main areas of use being for immunological studies, pharmaceutical research and development, and cancer research.

RESEARCH AWARDS INDEX

GUIDELINES FOR THE CARE AND USE OF MAMMALS IN NEUROSCIENCE AND BEHAVIORAL RESEARCH

National Academies Press Expanding on the National Research Council's Guide for the Care and Use of Laboratory Animals, this book deals specifically with mammals in neuroscience and behavioral research laboratories. It offers flexible guidelines for the care of these animals, and guidance on adapting these guidelines to various situations without hindering the research process. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research offers a more in-depth treatment of concerns specific to these disciplines than any previous guide on animal care and use. It treats on such important subjects as: The important role that the researcher and veterinarian play in developing animal protocols. Methods for assessing and ensuring an animal's well-being. General animal-care elements as they apply to neuroscience and behavioral research, and common animal welfare challenges this research can pose. The use of professional judgment and careful interpretation of regulations and guidelines to develop performance standards ensuring animal well-being and high-quality research. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research treats the

development and evaluation of animal-use protocols as a decision-making process, not just a decision. To this end, it presents the most current, in-depth information about the best practices for animal care and use, as they pertain to the intricacies of neuroscience and behavioral research.

ANIMAL RESTRAINT FOR VETERINARY PROFESSIONALS - E-BOOK

Elsevier Health Sciences Learn effective animal handling and restraint techniques! **Animal Restraint for Veterinary Professionals, 2nd Edition** describes each procedure with two to eight photos showing the exact steps needed to achieve safe restraint. A chapter is devoted to each domestic animal species, including cats, dogs, cattle, horses, sheep, goats, pigs, rabbits, rodents, ferrets, and birds. New to this edition are updated photographs showing the latest and greatest restraint procedures for all types of animals. Written by expert veterinary technician educators C.C. Sheldon, Teresa Sonsthagen, and James Topel, this practical guide also includes a chapter on knot tying! Step-by-step guidelines make it easy to understand safe, proper restraint procedures. Over 500 full-color photographs illustrate restraint procedures. A clear, non-technical writing style along with descriptive photographs simplifies animal restraint concepts. Comprehensive coverage in each chapter includes normal and abnormal behavior characteristics, precautions, special handling, restraint devices, and descriptions of medical procedures — such as venipuncture — for which special restraint procedures are necessary. Restraint Principles chapter summarizes the considerations for restraint, animal safety, circumstances for restraint, the effect of restraint on animals, and complications. Knot Tying chapter presents basic types of knots that may be used to safely restrain larger animals. UPDATED chapters include behavioral observations describing what to look for in the animal being restrained. NEW full-color photographs accompany new restraint procedures for various species. NEW! Alternative restraint techniques are added, accompanied by step-by-step photos.

SURGICAL RESEARCH

Academic Press Contributors. -- Foreword. -- Preface. -- Getting Started. -- Assessing Available Information. -- Organizing and Preliminary Planning for Surgical Research -- Writing a Protocol: Animals, Humans, and Use of Biologic, Chemical, and Radiologic Agents. -- Grantsmanship. -- Informed Consent and the Protection of Human Research Subjects: Historical Perspectives and Guide to Current United States Regulations. -- Animal Care and Maintenance. -- Funding Strategies and Agencies: Academic-Industrial Relationships; Intellectual Property. -- Statistical Considerations. -- Use of Nonexperimental Studies to Evaluate Surgical Procedures and Other Interventions: The Challenge of Risk Adjustment. -- Measuring Surgical Outcomes. -- Design of Clinical Trials. -- Using Administrative Data for Clinical Research. -- Research in the Intensive Care Unit: Ethical and

Methodological Issues. -- Research in the Operating Room. -- Effects of Age and Gender. -- Strategies, Principles, and Techniques Using Transgeni ...

DEPARTMENTS OF COMMERCE, JUSTICE, AND STATE, THE JUDICIARY, AND RELATED AGENCIES APPROPRIATIONS FOR 1992: TESTIMONY OF MEMBERS OF CONGRESS AND OTHER INTERESTED INDIVIDUALS AND ORGANIZATIONS

THE UFAW HANDBOOK ON THE CARE AND MANAGEMENT OF LABORATORY AND OTHER RESEARCH ANIMALS

John Wiley & Sons The seminal reference on the care of laboratory and captive animals, The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals is a must-have for anyone working in this field. The UFAW Handbook has been the definitive text since 1947. Written for an international audience, it contains contributions from experts from around the world. The book focuses on best practice principles throughout, providing comprehensive coverage, with all chapters being peer reviewed by anonymous referees. As well as addressing the husbandry of laboratory animals, the content is also of great value to zoos and aquaria. Changes for the eighth edition: Revised and updated to reflect developments since publication of the previous edition. New chapters on areas of growing concern, including: the 3Rs; phenotyping; statistics and experimental design; welfare assessment; legislation; training of people caring for lab animals; and euthanasia. All material combined into one volume for ease of reference. This book is published on behalf of UFAW (The Universities Federation for Animal Welfare), with whom we also publish the UFAW/Wiley-Blackwell Animal Welfare Book Series. This major series of books provides an authoritative source of information on worldwide developments, current thinking and best practice in the field of animal welfare science and technology. For details of all of the titles in the series see <http://www.wiley.com/go/ufaw>

THE NECROPSY BOOK

A GUIDE FOR VETERINARY STUDENTS, RESIDENTS, CLINICIANS, PATHOLOGISTS, AND BIOLOGICAL RESEARCHERS

ANAESTHESIA FOR VETERINARY NURSES

John Wiley & Sons Anaesthesia for Veterinary Nurses has been written specifically for veterinary nurses by veterinary nurses and veterinary surgeons. Easy to read and understand, it provides detailed coverage of the physiological, pharmacological and physical aspects of anaesthesia. Fully updated and reflecting recent changes to veterinary nursing qualifications, this second edition is now also illustrated in colour.

Sedation and anaesthesia are a crucial part of veterinary practice, and the protocols and methods involved are often complex and vary considerably from animal to animal. In addition to cats and dogs, *Anaesthesia for Veterinary Nurses* contains detailed sections on rabbits, rodents, birds, reptiles, and larger animals. Suitable for those with or without previous subject knowledge, this book is ideal for quick reference by veterinary nurses and technicians in practice, or for more substantial study by students. • Reflects recent changes to veterinary nursing qualifications, current terminology and drugs in use. • Includes chapters on small mammals, birds, reptiles, and large animals. • Now illustrated with colour photographs.

RESEARCH GRANTS INDEX

MERCK VETERINARY MANUAL

Merck & Company For more than forty years, animal health professionals have turned to the Merck Veterinary Manual for integrated, concise and reliable veterinary information. Now this manual covering the diagnosis, treatment, and prevention of diseases of companion, food and zoo animals is available on an easy-to-use, fully searchable CD-ROM. The CD includes the full text of The Merck Veterinary Manual 8/e and has been enhanced with picture links featuring original anatomical artwork and numerous clinical and diagnostic illustrations, table links and quick search links that provide quick access to cross referenced text.

DEPARTMENTS OF COMMERCE, JUSTICE, AND STATE, THE JUDICIARY, AND RELATED AGENCIES APPROPRIATIONS FOR FISCAL YEAR 1992: BOARD FOR INTERNATIONAL BROADCASTING

ACTA MEDICA ET BIOLOGICA

EXOTIC PET MEDICINE AND SURGERY

Cab International Exotic pet keeping continues to become increasingly popular in many countries. Clinical presentations of animals other than cats and dogs are more and more frequently seen in modern veterinary practice. Authored by a highly respected and experienced team of experts at The University of Edinburgh this book is the first volume of a two-part set on veterinary medicine and surgery for exotic species. This volume on mammals covers Myomorph and Sciuromorph rodents (mice, rats, hamsters, gerbils, chipmunks, duprasi and squirrels), Hystricomorph rodents (guinea pigs and chinchillas, degus.), rabbits, ferrets, and other small mammals such as hedgehogs, sugar gliders, skunks, prairie dogs, meerkats, opossum, and small primates. The first part of the book covers the anatomy, physiology and husbandry of each species. The second part describes medical treatment and common surgical procedures for each species, as seen in everyday veterinary practice. Part three addresses

general topics applicable to all exotic species, including therapeutics, pathology, imaging techniques (including radiography, CT, MRI and Ultrasound scans), anaesthesia and endoscopy. This concise and wide ranging volume seeks to cover the major surgeries and medical interventions of commonly presented exotic mammals. Information is presently clearly without unnecessary detail, as the book has been designed to be practical and usable, authored by an expert team of surgeons familiar with the demands of busy veterinary practice. It is an ideal resource for students of veterinary medicine and general practitioners needing a quick reference to support their clinical work. A companion volume on reptiles, amphibians, fish, invertebrates and avian species by the same team of authors will follow shortly.

SUBJECT INDEX OF CURRENT RESEARCH GRANTS AND CONTRACTS ADMINISTERED BY THE NATIONAL HEART, LUNG AND BLOOD INSTITUTE

DEFINITION OF PAIN AND DISTRESS AND REPORTING REQUIREMENTS FOR LABORATORY ANIMALS

PROCEEDINGS OF THE WORKSHOP HELD JUNE 22, 2000

National Academies Press In this first in a proposed series of workshops on regulatory issues in animal care and use, the Institute for Laboratory Animal Research (ILAR) has addressed the existing and proposed requirements for reporting pain and distress in laboratory animals. The Animal Welfare Act, administered by the Animal and Plant Health Inspection Service of the United States Department of Agriculture (USDA), mandates that pain and distress in laboratory animals be minimized. USDA is considering two policy changes with regard to this specific mandate. Firstly, since there has been no functional definition of "distress," USDA has prepared such a definition and requested feedback from the scientific community on its usefulness for regulatory and reporting requirements. The second issue concerns the pain and distress categorization scheme for reporting to USDA. Various groups and individuals have questioned the efficacy of the current categories, and specific changes have been proposed by the Humane Society of the United States. USDA is considering these and other potential changes to the existing scheme. Thus, given these potential changes to animal welfare policy, the aim of the ILAR/NIH joint workshop was to provide feedback to the USDA. The speakers were asked to address these two issues as well as to comment upon whether the information contained in the 1992 ILAR report Recognition and Alleviation of Pain and Distress in Laboratory Animals is still useful to investigators in assisting them to comply with regulations. The speakers provided perspectives based on their individual expertise in the areas of science of pain and distress, animal welfare policy, protocol review, and/or as representatives of relevant organizations or institutions. The following

proceedings are an edited transcript of their presentations.

THE WELFARE OF LABORATORY ANIMALS

Springer Science & Business Media This book examines the general principles of laboratory animal maintenance and experimental use as well as factors that have to be taken into account when good research is done with animals. In addition, it provides species specific coverage, concentrating on the species most used as laboratory animals. The book gives a comprehensive description of the welfare questions considered to be important for each species under laboratory conditions.

HANDBOOK OF LABORATORY ANIMAL MANAGEMENT AND WELFARE

John Wiley & Sons