

2022 ISFM Consensus Guidelines on the Management of Acute Pain in Cats

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Practical relevance: Increases in cat ownership worldwide mean more cats are requiring veterinary care. Illness, trauma and surgery can result in acute pain, and effective management of pain is required for optimal feline welfare (ie, physical health and mental wellbeing). Validated pain assessment tools are available and pain management plans for the individual patient should incorporate pharmacological and non-pharmacological therapy. Preventive and multimodal analgesia, including local anaesthesia, are important principles of pain management, and the choice of analgesic drugs should take into account the type, severity and duration of pain, presence of comorbidities and avoidance of adverse effects. Nursing care, environmental modifications and cat friendly handling are likewise pivotal to the pain management plan, as is a team approach, involving the cat caret.

Clinical challenges: Pain has traditionally been under-recognised in cats. Pain assessment tools are not widely implemented, and signs of pain in this species may be subtle. The unique challenges of feline metabolism and comorbidities may lead to undertreatment of pain and the development of peripheral and central sensitisation. Lack of availability or experience with various analgesic drugs may compromise effective pain management. **Evidence base:** These Guidelines have been created by a panel of experts and the International Society of Feline Medicine (ISFM) based on the available literature and the authors' experience. They are aimed at general practitioners to assist in the assessment, prevention and management of acute pain in feline patients, and to provide a practical guide to selection and dosing of effective analgesic agents.

Keywords: Acute; analgesia; anti-inflammatory drugs; behaviour; dental; facial expressions; pain assessment; opioid; ovariohysterectomy

Introduction

The feline population has grown significantly in recent years, with a current estimate of around 70 million pet cats in the USA and Canada.^{1,2} These individuals will require veterinary care and the majority undergo at least one surgery (ie, elective neutering) during their lifetime. Others will have medical conditions or trauma requiring hospitalisation, diagnostic examinations, intravenous treatments and palliative care. Effective acute pain management is required in most, if not all, of the above scenarios and must be an integral part of feline practice. Pain has a negative impact on feline welfare. It is a basic requirement that

each feline practitioner performs pain assessment during every physical examination, in addition to recording the temperature, pulse, respiration (TPR) and conducting a nutritional assess-

ment. This requires proficient recognition and management of pain in cats, aspects of which are species-specific.

Our knowledge of feline pain management has progressed over recent years. Review articles have been published on different aspects of pain management in cats.^{3–6} Moreover, there are now three scales with reported validity for acute feline pain assessment that take into consideration facial expressions and the cat's unique behaviour.^{7–10} All three provide clinical guidance on the need for analgesia when a cut-off value is reached. However, rescue interventions may be administered even when the cut-off is not reached if the veterinarian feels that the cat could be in pain. The advent of valid pain assessment systems has improved our ability to recognise and assess pain in the clinical setting. It has also led to more robust research and clinical studies, and provided more objective outcome measures for approval of feline-specific drugs.



Management Guidelines For Exotic Cats

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Management Guidelines for Exotic Cats John Partridge, 1991-01-01 *Training Materials for Animal Facility Personnel* Michael D. Kreger, 1995 Behavioral Ecology and Conservation Biology Tim Caro, 1998-08-27 In just the last few years behavioral ecologists have begun to address issues in conservation biology This volume is the first attempt to link these disciplines formally Here leading researchers explore current topics in conservation biology and discuss how behavioral ecology can contribute to a greater understanding of conservation problems and conservation intervention programs In each chapter the authors identify a conservation issue review the ways it has been addressed review behavioral ecological data related to it including their own evaluate the strengths and weaknesses of the behavioral ecological approach and put forward specific conservation recommendations The chapters juxtapose different studies on a wide variety of taxonomic groups A number of common themes emerge including the ways in which animal mating systems affect population persistence the roles of dispersal and inbreeding avoidance for topics such as reserve design and effective population size the key role of humans in conservation issues and the importance of baseline data for conservation monitoring and modeling attempts Each chapter sheds new light on conservation problems generates innovative avenues of interdisciplinary research and shows how conservation minded behavioral ecologists can apply their expertise to some of the most important questions we face today **Fowler's Zoo and Wild Animal Medicine Current Therapy, Volume 7** R. Eric Miller, Murray E. Fowler, 2011-07-11 With coverage of current issues and emerging trends Fowler's Zoo and Wild Animal Medicine Volume 7 provides a comprehensive all new reference for the management of zoo and wildlife diseases A Current Therapy format emphasizes the latest advances in the field including nutrition diagnosis and treatment protocols Cutting edge coverage includes topics such as the One Medicine concept laparoscopic surgery in elephants and rhinoceros amphibian viral diseases and advanced water quality evaluation for zoos Editors R Eric Miller and Murray E Fowler promote a philosophy of animal conservation bridging the gap between captive and free ranging wild animal medicine with chapters contributed by more than 100 international experts The Current Therapy format focuses on emerging trends treatment protocols and diagnostic updates new to the field providing timely information on the latest advances in zoo and wild animal medicine Content ranges from drug treatment nutrition husbandry surgery and imaging to behavioral training Coverage of species ranges from giraffes elephants lions and orangutans to sea turtles hellbenders bats kakapos and more An extensive list of contributors includes recognized authors from around the world offering expert information with chapters focusing on the latest research and clinical management of captive and free ranging wild animals A philosophy of animal conservation helps zoo and wildlife veterinarians fulfill not only the technical aspects of veterinary medicine but contribute to the overall biological teams needed to rescue many threatened and endangered species from extinction All content is new with coverage including coverage of cutting edge issues such as white nose disease in bats updates on Ebola virus in wild great apes and chytrid

fungus in amphibians Full color photographs depict external clinical signs for more accurate clinical recognition Discussions of the One Medicine concept include chapters addressing the interface between wildlife livestock human and ecosystem health New sections cover Edentates Marsupials Carnivores Perrissodactyla and Camelids Over 100 new tables provide a quick reference to a wide range of topics An emphasis on conserving threatened and endangered species globally involves 102 expert authors representing 12 different countries

Health and Welfare of Brachycephalic (Flat-faced) Companion Animals Rowena Packer, Dan O'Neill, 2021-08-05 Health and welfare issues of brachycephalic flat faced animals are one of the most pressing problems facing companion animals right now Dogs in particular are suffering from a brachycephalic crisis resulting from a perfect storm where predispositions to an array of health issues are amplified by a population boom for certain brachycephalic breeds such as the French Bulldog and Pug But yet for many owners these dogs represent the perfect companion endearing personas and cute looks in a socially desirable package So where is the truth in all of this This book will equip veterinary professionals animal welfare scientists breeders and owners with the fuller story about brachycephalic health and welfare The first half of the book provides the context of how and why we are in this crisis offering in depth historical social ethical communication nursing welfare epidemiological genetics and international perspectives The second half shifts towards the clinical arena with chapters that cover the background diagnosis treatment and prevention of the many unique healthcare needs of brachycephalic animals Cutting edge knowledge is shared on a range of disciplines including respiratory disease ophthalmology dermatology dentistry neurology obesity reproduction and anesthesia With twenty chapters written by world leading experts lifetimes of experience and knowledge are condensed into the first book dedicated exclusively to brachycephaly in companion animals This essential reference resource will inform challenge and stimulate it will open your mind to new opportunities for you to improve the welfare of brachycephalic animals by your personal and collective choices and actions But prepare to be surprised you may just find that your views on brachycephaly in companion animals will be changed forever

Zoo Biology ,1982 **The Literature of Animal Science and Health** Wallace C. Olsen, 1993 The third of a seven volume series The Literature of the Agricultural Sciences this book analyzes the trends in published literature of animal science and health during the past century with emphasis on the past forty years It uses citation analysis and other bibliometric techniques to identify the most important journals report series and monographs for the developed countries as well as those in the Third World

Behavioral Aspects of Cheetah Conservation in Captivity Nadja Wielebnowski, 1996 Big Cats Douglas Richardson, 1992 Describes the physical characteristics habits and natural environment of various species of big cats lions tigers leopards jaguars cheetahs pumas snow leopards and clouded leopards

Infectious Diseases of the Dog and Cat Jane E. Sykes, Craig E. Greene, 2011-11-15 Expanded coverage of zoonoses zoonotic potential and precautions helps you effectively monitor and treat zoonotic infections Fully updated drug formulary reflects the most current pharmacokinetics indications contraindications handling and administration guidelines

and dosage recommendations available Updated content throughout the text details current diagnostic testing regimens and therapeutic and preventive considerations for all pathogens you re likely to encounter in the clinical setting Special focus on disease incidence and susceptibility in traveling animals helps you alert animal owners to potential risks associated with pet travel

Anaesthesia of the Cat Leslie W. Hall,Polly M. Taylor,1994 This definitive well illustrated text covers all aspects of anesthesia of the cat Authored by a known and internationally respected leader in the veterinary field this work discusses anatomy physiology pathology and pharmacology as well as the clinical facets of feline anesthesia

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