

Equine Breeding Management And Artificial Insemination 2e

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.

Behavior is shaped by both genetics and experience--nature and nurture. This book synthesizes research from behavioral genetics and animal and veterinary science, bridging the gap between these fields. The objective is to show that principles of behavioral genetics have practical applications to agricultural and companion animals. The continuing domestication of animals is a complex process whose myriad impacts on animal behavior are commonly under-appreciated. Genetic factors play a significant role in both species-specific behaviors and behavioral differences exhibited by individuals in the same species. Leading authorities explore the impact of increased intensities of selection on domestic animal behavior. Rodents, cattle, pigs, sheep, horses, herding and guard dogs, and poultry are all included in these discussions of genetics and behavior, making this book useful to veterinarians, livestock producers, laboratory animal researchers and technicians, animal trainers and breeders, and any researcher interested in animal behavior. Includes four new chapters on dog and fox behavior, pig behavior, the effects of domestication and horse behavior Synthesizes research from behavioral genetics, animal science, and veterinary literature Broaches fields of behavior genetics and behavioral research Includes practical applications of principles discovered by behavioral genetics researchers Covers many species ranging from pigs, dogs, foxes, rodents, cattle, horses, and cats

Medication formulary and clinical techniques guide for veterinarians in equine veterinary practice

Equine Reproductive Physiology Breeding and Stud Management, 5th Edition provides a thorough grounding in equine reproductive anatomy and physiology and applies it to all aspects of breeding and stud management. This includes detailed coverage of the management of mares, stallions and

foals, as well as stud management practicalities such as infertility, artificial insemination and advanced reproductive techniques. This textbook, which has been updated throughout with additional material and references, continues to provide an authoritative treatise on equine reproduction for students, practising veterinary surgeons and stud managers.

Blackwell's Five-Minute Veterinary Consult Clinical Companion

Equine Husbandry & Equestrian Sports

Manual of Equine Reproduction - E-Book

Equine Reproduction

Sustainable Food Production

1. Introduction 2. The Horse Through Ages 3. The Points of the Horse and Dentition 4. Care of Teeth and Dentistry 5. Systems of Breeding 6. Selection Procedure 7. Reproductive Cycle 8. Specialized Management of Breeding Stock 9. Artificial Insemination and Frozen Semen Technique 10. Embryo Transfer Technology 11. Common Reproductive Disorders 12. Description of the Horse 13. Examination for Soundness 14. Stabling 15. Grooming and Stable Management 16. Care of Feet and Shoeing 17. Principles of Equine Feeding 18. Types of Feed and Fodder 19. Feeding Standards and Nutritional Requirements 20. Practical Feeding of Various Classes 21. Storage of Feed 22. Saddlery 23. Transportation 24. Antimicrobial Therapy 25. Important Diseases and their Prevention EQUESTRIAN SPORTS 26. Historical Background 27. Dressage 28. Drug Abuse and Dope Testing 29. Welfare Requirement of Horses in Equestrian Sports 30. Conservation of Indigenous Equine Species 31. Equine Management in Nuclear, Biological and Chemical Disaster Index

This comprehensive volume focuses on recent trends and new technologies used in the management of reproduction in major farm animals, focusing on both males and females of bovine, equine, and porcine species. With chapters written by scientists who specialize in their respective topics, the volume presents a selection of different technologies that have been developed to assure reproductive success by improving reproductive efficiency, generating germplasm banks, and maintaining genetic diversity in cattle, horses, and pigs. In the last decade, reproductive technologies in veterinary medicine have progressed considerably, providing high profitability to livestock farms. This book provides basic and applied information on the most used reproductive technologies in bovine, equine, and porcine species for academics, scientists, and veterinarians. The volume discusses reproductive and postpartum management, reproductive ultrasound, sperm management, egg retrieval, artificial insemination, embryo transfer, nutrition, genetics, and certain clinical aspects, such as endocrinology and robustness of reproductive systems.

Equine Reproductive Procedures is a user-friendly guide to reproductive management, diagnostic techniques, and therapeutic techniques on stallions, mares, and foals. Offering detailed descriptions of 161 procedures ranging from common to highly specialized, the book gives step-by-step instructions with interpretative information, as well as useful equipment lists and references for further reading. Presented in a highly portable spiral-bound format, Equine Reproductive Procedures is a practical resource for daily use in equine practice. Divided into sections on the non-pregnant mare, the pregnant mare, the postpartum mare, the stallion, and the newborn foal, the book is well-illustrated throughout with clinical photographs

demonstrating procedures. Equine Reproductive Procedures provides practical guidance for performing basic and advanced techniques associated with the medical management of horses.

In this book, twenty-one researchers and clinicians review the study of the genetics of male infertility, the tools available in the laboratory and clinic, the current state of knowledge, and the future of research and translation into clinical diagnostics and treatments. New tools discussed are discussed. This book therefore serves as a guide to evidence-based clinical applications, and a preview of future possibilities.

Horse Breeding and Management

Artificial Insemination in Farm Animals

Biotechnologies Applied to Animal Reproduction

Genetics and the Behavior of Domestic Animals

Veterinary Reproduction and Obstetrics

This book highlights the impact of genital tract infections on female infertility, male infertility, and even veterinary infertility. A comprehensive source on genital infections essential for all infertility specialists is now at your hands.

An authoritative, straightforward guide that discusses the preparations required-and the challenges-of getting mares pregnant. Dr. Schweizer's topics cover the mare's anatomy, the reproductive system, the importance of teasing, and veterinary monitoring. Dr. Schweizer also examines different through various management techniques, and how to deal with infertility.

The goal of the Second Edition of the Formulary and Protocol guide is to provide veterinarians and veterinary students with medication dosages and therapeutic protocols in Equine Reproduction used at Colorado State University

Written for students and all with a general interest in breeding horses, this book sets out to provide a basic understanding with sufficient practical information for beginners to get started. Enough reproductive physiology of the mare and stallion is included to clarify the management techniques which are explained later in the book, but unnecessary details are avoided. Artificial insemination and embryo transfer are also explained, as are selecting the broodmare and stallion, management at covering and during pregnancy, and post-partum care of the mare and foal.

Goat Science

Equine Law & Horse Sense

Equine Embryo Transfer

Understanding Breeding Management

A Way Forward

Using Science to Improve the BLM Wild Horse and Burro Program: A Way Forward reviews the science that underpins the Bureau of Land Management's oversight of free-ranging horses and burros on federal public lands in the western United States, concluding that constructive changes could be implemented. The Wild Horse and Burro Program has not used scientifically rigorous methods to estimate the population sizes of horses and burros, to model the effects of management actions on the animals, or to assess the availability and use of forage on rangelands. Evidence suggests that horse populations are growing by 15 to 20 percent each year, a level that is unsustainable for maintaining healthy horse populations as well as healthy ecosystems. Promising fertility-control methods are available to help limit this population growth, however. In addition, science-based methods exist for improving

population estimates, predicting the effects of management practices in order to maintain genetically diverse, healthy populations, and estimating the productivity of rangelands. Greater transparency in how science-based methods are used to inform management decisions may help increase public confidence in the Wild Horse and Burro Program.

An essential resource for both students and practitioners, this comprehensive text provides practical, up-to-date information about normal reproduction and reproductive disorders in horses, cattle, small ruminants, swine, llamas, and other livestock. Featuring contributions from experts in the field, each section is devoted to a different large animal species and begins with a review of the clinically relevant aspects of the reproductive anatomy and physiology of both males and females. Key topics include the evaluation of breeding soundness, pregnancy diagnosis, diagnosis and treatment of infertility, abortion, obstetrics, surgery of the reproductive tract, care of neonates, and the latest reproductive technology. Includes coverage of all large animal species. All sections provide a review of clinically pertinent reproductive physiology and anatomy of males and females of each species. Complete coverage of the most current reproductive technology, including embryo transfer, estrous synchronization, and artificial insemination. A new section on alternative farming that addresses reproduction in bison, elk, and deer. New to the equine section: stallion management, infertility, and breeding soundness evaluation. New to the bovine section: estrous cycle synchronization, reproductive biotechnology, ultrasonographic determination of fetal gender, heifer development, and diagnosis of abortion. New to the porcine section: artificial insemination, boar/stud management, diseases of postpartum period, and infectious disease control. New to the llama section: infectious disease and nutrition.

Now in a much-anticipated two-volume new edition, this gold-standard reference stands as the most comprehensive and authoritative text on equine reproduction. Serving theriogenologists, practitioners and breeders worldwide as a one-stop resource for the reproductive assessment and management of equine patients, *Equine Reproduction, Second Edition* provides detailed information on examination techniques, breeding procedures, pregnancy diagnosis and management, reproductive tract diseases and surgery, and foaling. A companion CD offers hundreds of images from the book in color. For the Second Edition, the stallion, mare and foal sections have been thoroughly updated and revised to include the latest information on every subject. New topics include discussion of nutritional and behavioral factors in the broodmare and stallion, parentage testing, fetal sexing and the health and management of older foals, weanlings and yearlings. Additionally, this outstanding Second Edition features a new section on assisted reproductive techniques, including detailed information on artificial insemination, in-vitro fertilization, embryo transfer and technology.

Research into equine artificial insemination has recently expanded with increasing horse numbers, the developing leisure interest in horse riding and the realization of the economic advantages of artificial insemination. This book provides a detailed reference book on the subject and covers its historical development, relevant equine physiology, current practices and future possibilities. It is extensively referenced to allow further reading into specialized areas.

Eighth Edition

Breeding Horses

Equine Reproductive Procedures

Current Therapy in Equine Reproduction E-Book

Equine Breeding Management and Artificial Insemination - Text and VETERINARY CONSULT Package

Offering the most current insights on horse breeding, this book covers the entire reproductive system, normal and abnormal mare physiology, and a wide range of reproductive problems commonly seen in both the mare and stallion. Coverage includes advanced reproductive techniques, with numerous breeding strategies to help you achieve optimal fertility rates. Features the most current information available on equine reproduction, including the latest therapies and treatments for breeding dysfunction, as well as advances in reproductive techniques. Focuses on therapy and treatment to provide practitioners

with quick access to key information Features the shared experience and valuable advice of world-renowned experts who have first-hand knowledge of which treatments and therapies are most effective

Learn how to properly care for a mare before she becomes pregnant, during pregnancy, and after foaling. Breeding, artificial insemination, inoculation, and routine veterinary care are also covered. Intended for the novice and the experienced owner alike, the book answers many of the whys behind broodmare management practices and veterinary treatments.

Artificial insemination is used instead of natural mating for reproduction purposes and its chief priority is that the desirable characteristics of a bull or other male livestock animal can be passed on more quickly and to more progeny than if that animal is mated with females in a natural fashion. This book contains under one cover 16 chapters of concise, up-to-date information on artificial insemination in buffalos, ewes, pigs, swine, sheep, goats, pigs and dogs. Cryopreservation effect on sperm quality and fertility, new method and diagnostic test in semen analysis, management factors affecting fertility after cervical insemination, factors of non-infectious nature affecting the fertility, fatty acids effects on reproductive performance of ruminants, particularities of bovine artificial insemination, sperm preparation techniques and reproductive endocrinology diseases are described. This book will explain the advantages and disadvantages of using AI, the various methodologies used in different species, and how AI can be used to improve reproductive efficiency in farm animals.

Understanding the latest developments in equine science is essential for all veterinary and equine professionals and students, researchers, owners, and those caring for equids. This book reflects the diversity in research presently being carried out worldwide. From locomotion and the digestive system, through to the skin and reproduction. The chapter on medicine includes not only some of the latest advances in gene therapy but also reveals medieval treatments, providing a fascinating glimpse into the past whilst also looking at future technologies. The book also highlights some contemporary insights into diet and behavior. From DNA and individual cells through to the entire animal, this research uses different scientific methods to understand horses and donkeys in greater detail.

Equine Husbandry and Equestrian Sports

Foal Formulary and Field Protocol Guide (Second Edition)

Guide for the Care and Use of Laboratory Animals

Genital Infections and Infertility

The Genetics of Male Infertility

Blackwell's Five-Minute Veterinary Consult Clinical Companion: Equine Theriogenology provides quick access to essential information on common techniques and conditions in equine reproductive practice. Part of the popular Blackwell's Five-Minute Veterinary Consult series, this resource builds on the reproduction section of Blackwell's Five-Minute Veterinary Consult: Equine to present expanded theriogenology coverage with clinical photographs. With information ranging from artificial insemination and fetal sexing to parentage testing and vaccination programs, the book offers 158 similarly formatted chapters to help practitioners efficiently manage reproductive health in the mare and stallion and confidently treat fetal and neonatal patients.

Gathering some 90 entries from the Encyclopedia of Sustainability Science and Technology, this book covers animal breeding and genetics for food, crop science and technology, ocean farming and sustainable aquaculture, transgenic livestock for food and more.

Now in full color, Manual of Equine Reproduction, 3rd Edition provides a comprehensive look at the reproductive management of horses, including management of stallions, pregnant mares, and neonatal foals. Expert authors use a concise, practical approach in discussing improved therapies and treatments in equine breeding. You'll enhance your skills and knowledge with this book's detailed coverage of techniques used in reproductive

examination, breeding procedures, pregnancy diagnosis, foaling, and reproductive tract surgery. A clinical emphasis includes a step-by-step format of possible scenarios from conception to breeding management. Practical information includes topics such as breeding with transported cooled or frozen semen, and caring for the broodmare and newborn foal. The organization of material corresponds to the course of study in veterinary school, so you can find topics easily. Chapter objectives and study questions at the beginning of each chapter guide you through the material and provide clear learning goals. Evaluation of Breeding Records chapter covers the importance of breeding records, and how to use them to evaluate stallion performance and optimize fertility. References are listed at the end of each chapter for further research and study. Full-color photographs and illustrations clearly depict procedures, and all drawings have been redrawn and improved. NEW Assisted Reproductive Technology chapter goes beyond embryo transfer. Updated content includes the latest advances in therapies and treatments. New content is added to two chapters, Reproductive Physiology of the Nonpregnant Mare and Manipulation of Estrus in the Mare. Thorough coverage of every aspect of equine reproduction provides a strong foundation for success in veterinary practice, including a discussion of the use of GnRH-analog deslorelin (Ovuplant) to hasten ovulation; aseptic technique for endometrial biopsy; use of transabdominal ultrasonography, especially in early pregnancy; determination of fetal gender by transrectal ultrasonography; aspiration testicular biopsy using a spring-loaded biopsy instrument; and procedure for surgical embryo transfer.

ARS "Techniques in Equine Reproduction" 6th Edition is an up-to-date guided tour of breeding management procedures, diagnostic tests, and therapeutic protocols for the stallion, mare, and newborn foal. Author, Patrick M. McCue, DVM, PhD, has added over 60 pages of additional chapters, updated information, step by step instructions, and photographs to this 230 page book.

Horse Breeding

Compendium of Animal Reproduction

Equine Reproductive Physiology, Breeding and Stud Management, 5th Edition

Understanding the Broodmare

Horse Breeding Management

This text explains in simple language the biological functions upon which horse reproduction is based, giving enough background to enable those working in stables and stud farms to cope with any problems that may arise. It does not swamp the reader with excessive detail and avoids being doctrinaire, arguing that there are many ways to the same end and that it is the duty of the vet to explain, but not to preach dogma. Its purpose throughout is to clarify and be a source of reference, advocating that the person on the spot should be in a position to make decisions based on background knowledge as well as experience. Goat science covers quite a wide range and varieties of topics, from genetics and breeding, via nutrition, production systems, reproduction, milk and meat production, animal health and parasitism, etc., up to the effects of goat products on human health. In this book, several parts of them are presented within 18 different chapters. Molecular genetics and genetic improvement of goats are the new approaches of goat development. Several factors affect the passage rate of digesta in goats, but for diet properties, goats are similar to other ruminants. Iodine deficiency in goats could be dangerous. Assisted reproduction techniques have similar importance in goats like in other ruminants. Milk and meat production traits of goats are almost equally important and have significant positive impacts on human health. Many factors affect the health of goats, heat stress being of increasing importance. Production systems could modify all of the abovementioned characteristics of goats.

A title in the Practical Veterinarian series, this comprehensive, concise reference has been developed by Diplomates of the American College of Theriogenologists to help veterinary students, veterinarians, and veterinary technicians quickly find answers to common questions. Quick-reference information in an outline format presents the normal reproductive anatomy and physiology, reproductive disorders, and breeding management in dogs and

cats. Tables and illustrations further clarify key concepts. This book also serves as an easy-to-understand introduction to veterinary theriogenology touching on all aspects of small animal reproduction, including physiology and pathology of the male and female reproductive systems and the clinical practice of veterinary obstetrics, gynecology, and semenology. Easy-to-use, pocket sized format keeps key facts within reach in any setting. Outline format makes finding information quick and easy. The ONLY book written on small animal theriogenology for small animal veterinarians designed for quick reference. All content is current and the authors are Diplomates of the American College of Theriogenologists to ensure the most authoritative information, including discussions of regional or national differences in techniques and medications. Coverage of veterinary neonatology presents pediatric content on examining, treating, and feeding neonates that is often overlooked by other texts on the subject. Topics include breeding management, pregnancy diagnosis and care, pregnancy termination, artificial insemination and preparation of chilled and frozen semen, emerging technologies in veterinary reproduction, and diseases of the reproductive tract including vaginitis, prostate disease, and pyometra. Includes a chapter on infertility, an area of growing concern for pet owners and breeders.

The economic health of many horse farms is directly related to the health and well-being of their stallions. An essential guide for the stallion owner or handler, *Understanding the Stallion* provides a complete overview of reproduction in the stallion, details the anatomy and physiology of the stallion, and addresses factors in breeding and stallion management. Dr. Squires is supervisor of the Equine Reproductive Laboratory at Colorado State University.

Breeding Management & Foal Development

Using Science to Improve the BLM Wild Horse and Burro Program

Equine Theriogenology

Understanding the Stallion

Equine Science

This book briefly reviews the history of equine embryo transfer, covering in clinically practical terms the techniques, equipment, and management protocols currently in use. Embryo transfer has become a big business, especially for breeding racing stock (horses and camels), and is therefore a very important aspect of equine practice. Ed Squires and Pat McCue have been involved with the development of embryo collection and transfer procedures since the early 60s and have both contributed important techniques and innovations to the process through their research and clinical experience. This book captures the clinical experience, so far, and applies it directly to equine practice. The book is of great value to general equine practitioners for reference, equine reproduction specialists, animal science at the graduate level (equine track), and breeders.

The oestrous cycle and its controls, The development of the conceptus, Pregnancy and its detection in the mare, Pregnancy and its detection in the cow, Pregnancy diagnosis in the sow, ewe and bitch, Anomalies of development of the conceptus, Prolapse of the vagina, Parturition, The care of parturient animals and the newborn:the puerperium, Dytocia:general considerations, Maternal dystocia, Fetal dystocia:aetiology and incidence, The approach to an obstetrical case, Manipulative delivery per vaginam:farm animals and the bitch, Dystocia due to fetal oversize, Dystocia due to defects of position or presentation, Dystocia due to twins or monstrosities, Injuries and diseases incidental to parturition, The caesarean operation, Caesarean operations in the bitch and cat, Retention of the fetal membranes, Postparturient prolapse of the uterus, Infertility in the cow:general, anatomical and functional, Infectious forms of infertility in cattle, The veterinary control of herd infertility, Sheep infertility, Infertility in the mare, Swine infertility, Infertility in the bitch and cat, The normal sexual apparatus of male animals, Reproductive abnormalities of male animals, Artificial insemination.

Practical information on the reproductive management of both thoroughbred and warmblood breeding operations prepares horse breeders to effectively breed even problem mares and stallions.

Containing full pedigree of all the imported thorough-bred stallions and mares, with their produce.

Equine Breeding Management and Artificial Insemination

Equine Artificial Insemination

The American Stud Book

Current Therapy in Large Animal Theriogenology - E-Book

Your Guide to Horse Health Care and Management

Put the principles of good breeding management into practice with *Equine Breeding Management and Artificial Insemination, 2nd Edition* for reproductive success! Practical information on the reproductive management of both thoroughbred and warmblood breeding operations prepares you to effectively breed even problem mares and stallions. Plus, detailed content on techniques, procedures, reproductive physiology, and more help you increase reproductive efficiency as well as track and improve your results throughout each breeding season. A section on reproduction efficiency evaluation includes a worksheet to evaluate the performance of both mares and stallions during each breeding season, and helps you compare reproductive performance with previous breeding seasons. Detailed descriptions of procedures and techniques including embryo transfer, artificial insemination, and more enable you to implement the methods for better breeding results. Practical information on reproductive management of both thoroughbred and warmblood breeding operations enhance the fertility of problem mares and stallions. World-renowned authors and contributors with years of practical knowledge and experience provide cutting-edge information. Vibrant full-color design and photographs show accurate representations of clinical appearance. Chapters covering the latest reproductive techniques improve chances of successful breeding, and improve survival rates after the birth of the foal. Vital chapters with information on recognizing potential problems help you quickly identify warning signs before fertility is negatively affected.

Techniques in Equine Reproduction

The General Stud-book

Current Trends and Practical Applications for Reproductive Management

Formulary and Protocols in Equine Reproduction (Second Edition)

Small Animal Theriogenology