

Retained placenta in cattle - pathogenesis and consequences



Examples of retained placenta in post partum cows.

Definition: Failure to expel the foetal membranes within 12 to 24 h after calving.

Incidence: Varies from 4.0-16.1%, but can be much higher in problem herds.

Established risk factors for placental retention

- abortion, stillbirth, twins, dystocia, induction of parturition with PGF₂&alpha and metabolic disorders, especially milk fever.
- Specific infections such as: brucellosis, leptospirosis, vibriosis, listeriosis, IBR etc.

Recent knowledge on pathogenesis of placental retention in cattle (Davies et al., 2004)

Mechanism of normal placental separation

Maternal immunological recognition of foetal MHC class I proteins expressed by trophoblast cells triggers an immune/inflammatory response that contributes to placental separation at parturition.

Mechanism of placental retention

Chemotactic factor for leukocytes is found in placentomes of cows with normal placental separation. It is absent in placentomes from cows with retained placentas. Blood leukocytes and

Retained Placenta In Cattle Pathogenesis And Consequences

CL Gary



Retained Placenta In Cattle Pathogenesis And Consequences:

Expression of matrix metalloproteinases (MMPs) and their tissue inhibitors (TIMPs) in bovine placental cells in vivo and in vitro Marc Dilly,2011-04-26 This thesis is submitted as a cumulative thesis with the main issue of elucidating potential functions and the regulation of matrix metalloproteinases MMPs and their inhibitors TIMPs in the bovine placenta The thesis consists of two parts each part being covered in one original paper published in peer reviewed journals The first part analyses the involvement of MMPs TIMPs in restricted trophoblast invasion migration in respect to signal transduction cell motility and proliferation in bovine trophoblast cells in vitro The second part contains results of in vivo studies concerning the localization and expression of the MMP TIMP system in different experimental groups and its possible involvement in the aetiology of retained fetal membranes RFM **Bovine Reproduction** Richard M. Hopper,2014-08-18 Bovine Reproduction is a comprehensive current reference providing information on all aspects of reproduction in the bull and cow Offering fundamental knowledge on evaluating and restoring fertility in the bovine patient the book also places information in the context of herd health where appropriate for a truly global view of bovine theriogenology Printed in full color throughout the book includes 83 chapters and more than 550 images making it the most exhaustive reference available on this topic Each section covers anatomy and physiology breeding management and reproductive surgery as well as obstetrics and pregnancy wastage in the cow Bovine Reproduction is a welcome resource for bovine practitioners theriogenologists and animal scientists as well as veterinary students and residents with an interest in the cow **Sütçü İneklerde Yaygın Postpartum Problemler, Olası Nedenleri ve Güncel Klinik Yaklaşımlar** Funda EŞKİ,Serdal KURT,2022-04-06 **Reproductive biotechnologies and challenges in their application** Stefan Gregore Ciornei, Mihai Cenariu,Graça Lopes,2025-02-14 Animal reproductive biotechnologies encompass a diverse array of scientific techniques aimed at improving livestock breeding enhancing animal health and conserving endangered species These technologies include artificial insemination AI embryo transfer ET cloning and gene editing By leveraging these methods researchers and farmers can enhance desirable traits in livestock such as disease resistance meat quality and milk production thereby increasing agricultural productivity and food security Additionally in conservation efforts reproductive biotechnologies play a crucial role in preserving genetic diversity and restoring populations of endangered species However the application of these technologies faces numerous challenges including infertility ethical concerns surrounding animal welfare genetic modification and the potential environmental impact of genetically modified organisms Furthermore regulatory frameworks vary across regions and species posing obstacles to the widespread adoption of these technologies Addressing these challenges is essential for ensuring the responsible use of animal reproductive biotechnologies while maximizing their potential benefits for agriculture and conservation efforts The research topic Animal Reproductive biotechnologies and challenges in their application addresses the significant problem of animal infertility which poses considerable challenges in

agricultural production breeding programs and conservation efforts One key aspect to address this issue involves leveraging reproductive biotechnologies to overcome infertility barriers in various animal species Advanced techniques such as in vitro fertilization IVF intracytoplasmic sperm injection ICSI and embryo transfer ET offer promising solutions for assisting animals with reproductive challenges Recent advances in reproductive biotechnologies include the development of improved culture media for embryo development optimization of cryopreservation techniques for gametes and embryos and the application of genomics to identify genetic markers associated with fertility traits Additionally research efforts focus on understanding the underlying causes of infertility in animals including genetic environmental and physiological factors to develop targeted interventions and management strategies By integrating scientific advancements with comprehensive management approaches researchers aim to enhance fertility outcomes in animals and thereby improve agricultural productivity breeding efficiency and the conservation of endangered species

Reproductive Pathology of Domestic Mammals Mark McEntee, 2012-12-02 This book evolved from a series of lectures and laboratories given by Dr Kenneth McEntee to students at Cornell University the University of Illinois and Tufts University and is based on tissues from over 20 000 cases of reproductive disease in the International Registry of Reproductive Pathology founded by Dr McEntee Dr McEntee brings into sharp focus what is known of reproductive pathology in North America and abroad His book will be an invaluable text and reference for those working on the diagnosis prevention and treatment of reproductive failures of all kinds The only comprehensive text on reproductive pathology of domestic mammals Based on pathologic examination of more than 20 000 cases of reproductive disease Covers clinical aspects of disease and associated lesions Extensive reference list includes citations in twelve languages

Reproduction in Cattle Peter J. H. Ball, Andy R. Peters, 2008-04-15 Cattle play a fundamental role in animal agriculture throughout the world They not only provide us with a vital food source but they also provide us with fertilizer and fuel Keeping reproduction levels at an optimum level is therefore essential but this is often a complicated process especially with modern high yielding cows Written in a practical and user friendly style this book aims to help the reader understand cattle reproduction by explaining the underlying physiology of the reproductive process and the role and importance of pharmacology and technology and showing how management techniques can improve reproductive efficiency This edition includes Recent research findings on the physiology of the oestrous cycle and its control New techniques for monitoring and manipulating reproduction including pregnancy diagnosis and embryo transfer Advice on identifying common infertility problems and how to prevent and treat them *Reproduction Cattle 3e* is essential reading for veterinary and agricultural students as well as veterinarians and farmers involved in cattle reproduction

Bovine Medicine Anthony H. Andrews, Roger W. Blowey, Hugh Boyd, Roger G. Eddy, 2008-04-15 *Bovine Medicine* provides practical and comprehensive information on cattle disease and production and is a key reference for all large animal vets Since the first edition was published in 1991 there have been significant improvements in disease control and management of cattle Almost all parts of

the book have been updated and completely rewritten There are new chapters on surgery embryo transfer artificial insemination ethno veterinary medicine and biosecurity and a new consolidating chapter on the interaction between the animal environment management and disease The previous edition has sold all over the world and as a result of this a greater emphasis has been placed on conditions and their treatment in areas other than temperate regions A new section entitled Global Variation in Cattle Practice has been included with contributors discussing bovine medicine practice in their part of the world All in all this is an outstanding resource for any practising vet and an excellent reference for veterinary students

Current Therapy in Large Animal Theriogenology Robert S. Youngquist, Walter R. Threlfall, 2006-10-10 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 *Proceedings* ,1991

Periparturient Diseases of Dairy Cows Burim N. Ametaj, 2017-12-21 This book summarizes the results achieved so far by application of various biological systems including genomics transcriptomics proteomics and metabolomics involved in the pathomechanisms and early diagnosis of periparturient diseases as specific biomarkers of disease in cattle These emerging technologies help to extensively enhance our understanding of the etiology and pathogenesis of periparturient diseases of transition dairy cows The book includes a chapter dedicated to omics sciences and one that discusses the myths established in animal and veterinary sciences in recent decades and emerging new paradigms The diseases discussed include metritis mastitis laminitis ketosis rumen acidosis periparturient immunosuppression gastrointestinal microbiota and their involvement in disease infertility fatty liver milk fever and retained placenta This book is intended for academics veterinarians animal nutritionists researchers and graduate students working in the field of omics sciences with a special interest in dairy cattle health *Dairy Medicine & Production* ,1991 *Studies on Veterinary Medicine* Lester

Mandelker, Peter Vajdovich, 2011-03-03 This compendium of research material on the role of oxidative stress in animal disease and morbidity examines both the general and the specific Sourced from scientists veterinarians and members of the medical community from around the world it includes chapters on our wider understanding of the corrosive function of free radicals in cell biology as well as focusing on the interplay between oxidative stress and metabolism in a variety of animal species including dogs ruminants and birds Since biogerontologist Denham Harman first posited that free radicals arising from the metabolic activity of oxygen play a central role in aging and disease a mass of evidence has accumulated linking oxidative stress and biological degradation We now understand that living in an aerobic environment inevitably leads to the production of free radicals that go on to attack biological membranes and lipoproteins via oxidation in a process called lipid peroxidation Reacting with carbon based molecules such as polyunsaturated fatty acids these free radicals cause oxidative stress and tissue damage The purpose of Studies on Veterinary Medicine is to inform clinicians students and others of the plethora of consequences that free radical damage ROS has on various cells tissues and organs as well as in different species of animals The chapters also analyze the effects of oxidative stress on aging and various morbidities such as diabetes cognitive dysfunction and heart disease Contributors variously present their interpretation of the role played by oxidative damage in disease and assess the benefits of antioxidant therapies

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1971

Jubb, Kennedy & Palmer's Pathology of Domestic Animals: Volume 3 Grant Maxie, 2015-08-16 With an emphasis on the disease conditions of dogs cats horses swine cattle and small ruminants Jubb Kennedy and Palmer's Pathology of Domestic Animals 6th Edition continues its long tradition of being the most comprehensive reference book on common domestic mammal pathology Using a body systems approach veterinary pathology experts provide overviews of general system characteristics reactions to insult and disease conditions that are broken down by type of infectious or toxic insult affecting the anatomical subdivisions of each body system The sixth edition now boasts a new full color design including more than 2 000 high resolution images of normal and abnormal organs tissues and cells Updated content also includes evolved coverage of disease agents such as the Schmallenberg virus porcine epidemic diarrhea virus and the porcine deltacoronavirus plus new information on molecular based testing including polymerase chain reaction PCR and in situ hybridization keep you abreast of the latest diagnostic capabilities a core text in veterinary pathology Reviewed by Alexander Stoll on behalf of Wikivet November 2015 Updated content includes new and evolving pathogens and diagnostic techniques Updated bibliographies give readers new entry points into the rapidly expanding literature on each subject NEW High resolution color images clearly depict the diagnostic features of hundreds of conditions NEW Introduction to the Diagnostic Process chapter illustrates the whole animal perspective and details the approaches to systemic multi system and polymicrobial disease NEW Coverage of camelids is now included in the reference's widened scope of species NEW Team of 30 expert contributors offers the latest perspective on the continuum of issues in veterinary

pathology NEW Expanded resources on the companion website include a variety of helpful tools such as full reference lists with entries linked to abstracts in Pub Med and bonus web only figures NEW Full color design improves the accessibility of the text **Production diseases in farm animals** Nanda Joshi, Thomas H. Herdt, 2023-08-28 High producing farm animals are permanently challenged by a variety of factors lack of proper nutrition deficit surplus housing systems infections and stress The incidence course and outcome of production diseases are changing continuously Therefore new information on prevention diagnosis and treatment of production diseases is needed These problems are complicated by the discussion of animal welfare the rapid changes in agricultural production and the economics of production The following key topics are handled Fatty liver in dairy cows Alternatives to growth promoting antibiotics Chronic inflammation and animal production Animal behavior and welfare in intensive production systems Epidemiology of production diseases New techniques in immunoprophylaxis Nutrition immunology and production immunology relationships Phosphorus nutrition animal health and environmental concerns Application of genomics to production disease Role of specific fatty acids in animal health reproduction and performance Trace mineral nutrition and metabolism Subclinical rumen acidosis This book is essential to scientists veterinarians and others interested in animal production **Veterinary Microbiology** Mr. Rohit

Manglik, 2024-07-12 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Large Animal Internal Medicine - E-Book Bradford P. Smith, Nicola Pusterla, 2019-05-21 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Veterinary Medicine Utilize a problem oriented approach to the diagnosis of diseases of horses cattle sheep and goats Large Animal Internal Medicine 6th Edition covers the diagnosis and management of disease in both ruminant and equine internal medicine As the first veterinary internal medicine text to use a problem based approach it offers discussions of over 150 clinical signs and manifestations as well as comprehensive coverage of laboratory and diagnostic testing New to this edition is a versatile online reference platform and coverage of conditions that exist in Europe Central and South America Australia and New Zealand In addition thoroughly revised and updated content includes new vaccines and vaccination protocols the most current laboratories for DNA genetic and PCR testing and colostrum supplements and replacers It's everything you need to stay up to date with the latest information on preventing and treating disease in large animals Discussions of over 150 clinical signs or manifestations of disease provide you with a problem based approach to diagnosis based on what you've observed and what laboratory tests reveal Causes of Presenting Signs boxes offer quick access to the common less common and uncommon diseases associated with manifestations or signs of disease Causes of Abnormal Laboratory Values boxes highlight the possible interpretations of abnormalities in clinical chemistry hematology blood proteins and clotting tests More than 200 expert authors contribute information in their areas of

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acquired companies Director level positions included Research and Development Design Engineering Operations and Strategy for billion dollar businesses He retired from full time work in 2012 to focus on his role as Editor of The Immunoassay Handbook and advises on product development manufacturing and marketing Provides a unique mix of theory practical advice and applications with numerous examples Offers explanations of technologies under development and practical insider tips that are sometimes omitted from scientific papers Includes a comprehensive troubleshooting guide useful for solving problems and improving assay performance Provides valuable chapter updates now available on www.immunoassayhandbook.com

Rebhun's Diseases of Dairy Cattle E-Book Thomas J. Divers, Simon F. Peek, 2007-10-25

REBHUN'S DISEASES OF DAIRY CATTLE 2nd Edition is your all in one guide to bovine disease management With thorough up to date coverage of differential diagnosis methods surgical and therapeutic treatment options and prevention strategies it provides vital information for battling bovine diseases in both dairy and non dairy cattle The book is organized by body system for quick convenient reference and this new edition meets the growing need for management of both diseases of individual cows and problems affecting whole herds Individual case presentations provide a valuable tool for differential diagnosis Practical overviews for procedures such as blood transfusion abdominal paracentesis and ECG give you reliable support for some of the most common procedures in bovine care Body systems organization makes diagnosis easier and more effective by isolating system specific diseases and conditions Full color design and over 200 new photographs depict disease processes in realistic clarity and ensure the most accurate diagnosis and treatment Emphasis on herd health addresses the dairy industry's increased concern over population medicine Expanded coverage of lameness highlights key problem areas in bovine feet Revised drug usage recommendations and legal considerations present the most current information in these critical areas to help you prevent dangerous or costly errors Additional public health safety considerations identify diseases that pose a substantial public threat and detail special measures for related care of dairy cattle New innovative DVD features real time videos of neurologic case studies ultrasound and endoscopy procedures and imaging techniques that familiarize you with the latest technological equipment and protocols Features coverage of the latest treatment innovations including antibiotic residue testing care of individual metabolic disease troubleshooting and much more

Blackwell's Five-Minute Veterinary Consult: Ruminant Christopher Chase, Kaitlyn Lutz, Erica McKenzie, Ahmed Tibary, 2017-08-22

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

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